

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

**INDEX**

<b>Sr. No.</b>	<b>Name of Department</b>	<b>Page No.</b>
<b>UNDER GRADUATE PROGRAM</b>		
<b>Bachelor of Arts</b>		
1.	Department of Marathi	2
2.	Department of Hindi	5
3.	Department of English	7
4.	Department of Economics	13
5.	Department of Sociology	18
6.	Department of History	24
7.	Department of Geography	31
<b>Bachelor of Commerce</b>		
8.	Department of Commerce	35
<b>Bachelor of Science</b>		
9.	Department of Physics	42
10.	Department of Chemistry	47
11.	Department of Mathematics	52
12.	Department of Botany	56
13.	Department of Zoology	59
<b>POST GRADUATE PROGRAM</b>		
<b>Master of Arts</b>		
1.	Department of Marathi	63
2.	History	66
3.	Economics	71
<b>Master of Science</b>		
4.	Chemistry	75
5.	Mathematics	81
<b>CAREER ORIENTED COURSES</b>		
1.	Arts of Translation	86
2.	Certificate course in Tourism	86
3.	Banking	86
4.	Retailing	86
5.	Insurance	86
6.	Information and Communication Technology	86
7.	Biotechnology	87
8.	Sericulture	87
<b>LIFE LONG LEARNING AND EXTENSION COURSES (LLE COURSES)</b>		
1.	Personality Development and Beauty Culture	88
2.	Basic English Grammar	88

**UNDER-GRADUATE COURSES / PROGRAMS**

**Department of Marathi**

A. U.G. Course/Programme: B. A.

Title of Course	Course Outcomes ( Statements)
B. A. part-I मराठी शब्दसंहिता (CBCS) Paper A & B	Knowledge Based 1-विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे. 2. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे, 3.विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्याविषयी जाणीव निर्माण करणे, 4 विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून Skill Based 1. विद्यार्थ्यांचा व्यक्तिमत्व विकास होण्यास मोठी मदत होईल. 2. दैनंदिन जीवनातील आयोजित केल्या जाणाऱ्या कार्यक्रमांचे व्यवस्थापन करता येईल. 3 विद्यार्थ्यांना आकर्षक फलकलेखन करता येईल. 4. वैविध्यपूर्ण निबंधलेखनाच्या माध्यमातून विद्यार्थ्यांमध्ये भाषा उपयोजनाची व वैचारिक मांडणी कौशल्ये विकसित होतील.
B.A. Part- I मराठी अक्षरबंध (CBCS) Paper I & II	Knowledge Based 1 विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे. 2. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे. 3. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्याविषयी जाणीव निर्माण करणे. 4. विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे. Skill Based 1 विद्यार्थ्यांचा कथा साहित्यातून कथनाची आणि अभिव्यक्तीची कौशल्य विकसित करता येतील. 2 विद्यार्थ्यांना काव्यप्रकारातून दलित आणि महानगरीय समस्येविषयी एखादे ठोस कार्य हाती घेता येतील.
B. A. part II- (DSC-C1) काय डॅजर वारा सुटलाय Paper III	Knowledge Based 1 नाटक या वाङ्मयप्रकाराचा व परंपरेचा परिचय करून देणे. 2 समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याचा अभ्यास करणे 3 नाट्याभ्यासाद्वारे प्रयोगरूप नाटक व नाटयक्षेत्रातील ज्ञानसंपादनास चालना देणे, 4 नाटकाच्या अभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावणे 5. विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित करणे. Skill Based 1.विद्यार्थ्यांना नाटक परंपरेचा परिचय होईल. 2 नाटक या साहित्यप्रकारामध्ये प्रयोगरूपाचे असलेले महत्त्व समजण्यास मदत होईल. 3. विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित होण्यास मदत होईल. 4 नाटक वाङ्मयप्रकार व इतर साहित्यप्रकार यातील फरक लक्षात येईल.
Paper IV	Knowledge Based

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

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काव्यगंध	<p>१ काव्याची परंपरा व प्रवाहाची ओळख करून देणे.</p> <p>२. मराठी काव्यातून प्रकट होणारे माणूस आणि समाज यातील परस्पर संबंध शोधणे.</p> <p>३ कवींच्या कलात्मक आकृतीबंधाचे मोल अभ्यासणे. ४. काव्यप्रवाहारूप काव्यलेखनाचे विशेष अभ्यासणे,</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना प्राचीन काव्यपरंपराची ओळख होईल.</p> <p>२. साहित्यप्रवाहाच्या केंद्रस्थानी माणूस रेखाटलेला असतो याची जाणीव निर्माण होईल.</p> <p>३. विद्यार्थ्यांना कवितेच्या आकृतीबंधाची माहिती होईल.</p> <p>४ विद्यार्थ्यांना कवितालेखनाचे विशेष समजतील.</p>
Paper V माती, पंख आणि आकाश	<p>Knowledge Based</p> <p>१ आत्मचरित्र या वाङ्मयप्रकाराची ओळख करून देणे.</p> <p>२. इतर वाङ्मयप्रकाराची व आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे.</p> <p>३. आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडणघडण आणि त्याचा समकाल अभ्यासणे.</p> <p>४. वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना आत्मचरित्र या वाङ्मयप्रकाराची ओळख होईल.</p> <p>२. विद्यार्थ्यांना आपले अनुभव प्रकट करण्यास प्रोत्साहन मिळेल.</p> <p>३. आत्मानुभवाबरोबरच प्रात, समाज, देश, संस्कृती आत्मकथनातून प्रकट होत याची जाणीव येईल.</p>
Paper VI जुगाड कादंबरी आणि भाषिक कौशल्ये	<p>Knowledge Based</p> <p>१ .कादंबरी या वाङ्मय प्रकाराची ओळख करून देणे.</p> <p>२ समकालीन कारीतील नव्या अवकाशाचा शोध घेणे.</p> <p>३.आधुनिकतेमधील अंतर्विरोध समजून घेणे</p> <p>४. मानवी मूल्याविषयी जाणीव निर्माण करणे.</p> <p>५ कादंबरीलेखनाने विशेष अभ्यासणे</p> <p>६. विद्यार्थ्यांमध्ये वृत्तांतलेखन करण्याचे कौशल्ये निर्माण करणे.</p> <p>Skill Based</p> <p>१ विद्यार्थ्यांना कादंबरी या वाङ्मय प्रकाराची ओळख होईल.</p> <p>२. विद्यार्थ्यांना कादंबरी लेखनाचा आकृतीबंध समजण्यास मदत होईल.</p> <p>३. विद्यार्थ्यांमध्ये वृत्तांतलेखन करण्याचे कौशल्य निर्माण होईल.</p>
B.A.Part-III मराठी (स्पेशल) – काव्यशास्त्र Paper VII & XII	<p>Knowledge Based</p> <p>१. पौर्वात्य काव्यशास्त्राची ओळख करून देणे.</p> <p>२. काव्याची लक्षणे आणि प्रयोजने समजावून देणे. ३. साहित्याची निर्मितीप्रक्रिया आणि स्वरूप स्पष्ट करणे.</p> <p>४. भाषेचे अलंकार समजावून देणे.</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना प्राचीन काव्याची ओळख होईल.</p> <p>२. साहित्य निर्माण करण्यास विधार्थी प्रोत्साहित होतील.</p> <p>३. भाषेतील चमत्कारिकता समजण्यास मदत होईल.</p> <p>४. काव्यनिर्मितीसाठीच्या कारणांची माहिती होईल.</p>
भाषाविज्ञान व मराठी भाषा	<p>Knowledge Based</p> <p>१. आधुनिक भाषाविज्ञानाचा परिचय करून देणे.</p>

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Paper VIII & XIII	<p>२. भाषेची उत्पत्ती, स्वरूप कार्य समजावून देणे</p> <p>३. मराठी भाषेची वर्णव्यवस्था समजावून देणे.</p> <p>४. ध्वनिपरिवर्तनाची कारणे व प्रकारांची माहिती देणे.</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना आधुनिक भाषाविज्ञानाचा परिचय होईल.</p> <p>२. विद्यार्थ्यांना भाषेची उत्पत्ती समजण्यास मदत होईल,</p> <p>३ भाषेमध्ये होणाऱ्या बदलाची व प्रकारची माहिती होईल.</p>
मराठी वांगमयाचा इतिहास Paper IX & XIV	<p>Knowledge Based</p> <p>१ मध्ययुगीन मराठी वाङ्मय परंपरांचा व इतिहासाचा परिचय करून देणे.</p> <p>२. या कालखंडातील वाङ्मय रचनाकारांचा परिचय करून देणे,</p> <p>३. मध्ययुगीन कालखंडातील वाङ्मयाच्या सांस्कृतिक पार्श्वभूमीचा उलगडा करणे.</p> <p>४. मध्ययुगीन काळातील मराठी भाषेचे स्वरूप स्पष्ट करणे.</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना मध्ययुगीन मराठी वाङ्मय परंपराभाव विमामा परिचय होईल.</p> <p>२. मध्ययुगलमा सांस्कृतिक पार्श्वभूमीची माहिती होईल.</p> <p>३. मध्ययुगीन काळातील मराठी भाषेचे स्वरूप समजेल.</p>
मराठी भाषा : उपयोजन आणि सर्जन Paper X & XV	<p>Knowledge Based</p> <p>१ औपचारिक आणि अनौपचारिक क्षेणुसार व्यवहार समजावून देणे</p> <p>२. विविध क्षेत्र आणि क्षमता विकसित करणे.</p> <p>३. लेखन, वाचन, भाषण या कौशल्याच</p> <p>४ भाषिक उपयोजनाने विद्यार्थ्यांचा शब्दसंग्रह</p> <p>Skill Based</p> <p>१ विद्यार्थ्यांमध्ये श्रवण भाषण वाचन व लेखन कौशल्यांना विकास होईल.</p> <p>२. जाहिरातीचे महत्व कळण्यास मदत होईल.</p> <p>३ विद्यार्थ्यांना चित्रपटाची समीक्षालेखन करता येईल.</p>
वांग्मयप्रवाहाचे अध्ययन (ग्रामीण व दलित) Paper XI & XVI	<p>Knowledge Based</p> <p>१. मराठीतील विविध साहित्यप्रवाहांचा परिचय करून देणे</p> <p>२. ग्रामीण प्रवाहांचा परिचय, प्रेरणा, स्वरूप, विकास करणे.</p> <p>३. मराठीतील कादंबरी या कलाकृतींचा परिचय समजावून घेणे.</p> <p>४. दलित साहित्य प्रवाहांचा परिचय, प्रेरणा, स्वरूप, विकास स्पष्ट करणे.</p> <p>Skill Based</p> <p>१. विद्यार्थ्यांना मराठीतील विविध साहित्यप्रवाहांचा परिचय होईल.</p> <p>२. मराठीतील कादंबरी या कलाकृतीच्या आकृतीबंधाची ओळख होईल.</p> <p>३ विद्यार्थ्यांना दलित साहित्यप्रवाहांचा परिचय, प्रेरणा, स्वरूप, विकास समजण्यास मदत येईल.</p>

Department of Hindi

A. U.G. Course/Programme

Title of course	Course Outcomes (Statements)
B. A. part I- हिंदी (विशेष ऐच्छिक). (CBSC)	<b>Knowledge Domain- हिंदी (विशेष ऐच्छिक).</b> 1. सृजनात्मक लेखन की विविध विधाओं (कविता कहानी यात्रावृत्त रिपोर्टाज साक्षात्कार दृष्य-साहित्य पत्रकारिता से परिचित कराना । 2. सृजनात्मक लेखन के विविध क्षेत्रों का परिचय कराना। 3.सृजनात्मक लेखन के विविध क्षेत्रों के महत्व तथा उपयोगिता से परिचित कराना। 4.छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ाना। 5.छात्रों को साहित्य के विविध विधाओं से परिचित कराना। 6.छात्रों को हिंदी के प्रतिनिधि गद्यकारों एवं कवियों से परिचित कराना। 7.छात्रों में हिंदी भाषा के श्रवण,पठन, एवं लेखन की क्षमताओं को विकसित करना। 8.निबंध, कहानी, रेखाचित्र, एकांकी, रिपोर्टाज,व्यंग्य, संस्मरण आदि विधाओं के माध्यम से छात्रों का भावात्मक विकास कराना। 9.छात्रों में राष्ट्रीय मूल्य एवं नैतिक मूल्य, उत्तरदायित्व के प्रति आस्था निर्माण कराना। 10.छात्रों में सामाजिक प्रतिबद्धता हेतु राष्ट्रभाषा हिंदी का प्रचारप्रसार कराना-।
B. A. part II- हिंदी (विशेष ऐच्छिक). (CBSC)	1.छात्र छात्राओं- के मन में गद्य-पद्य विधाओं के द्वारा समाज, साहित्य, शिक्षण, धर्म, अर्थ और राजनीति के विविध पहलुओं का परिचय कराना तथा इन सब के प्रति आस्था, रुचि उत्पन्न कराना। 2.हिंदी के विविध साहित्यकारों का तथा उनके व्यक्तित्व और कृतित्व का परिचय करा देना। 3.संस्कार मूल्यों को विकसित करा देना। 4.हिंदी में कार्य करने की रुचि विकसित करना । 5.हिंदी के विविध रूपों का परिचय कराना । 6.प्रयोजनमूलक हिंदी का परिचय कराना । 7.पत्राचार के स्वरूप का परिचय कराना । 8.रोजगार परक हिंदी की उपयोगिता स्पष्ट करना । 9.छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ावा देना ।

<p>B. A. part III- <i>हिंदी (विशेष ऐच्छिक).</i> (CBSC)</p>	<ol style="list-style-type: none"><li>1. उपन्यास और आत्मकथा के तात्विक स्वरूप का परिचय देना ।</li><li>2. उपन्यासकार एवं आत्मकथाकार के व्यक्तित्व एवं कृतित्व से परिचित कराना।</li><li>3. पाठ्यक्रम में निर्धारित उपन्यास एवं आत्मकथन की प्रासंगिकता से अवगत कराना</li><li>4. साहित्य की मर्म ग्राहिणी क्षमता का विकास कराना ।</li><li>5. काव्य विभिन्न अंगों का सामान्य परिचय कराना ।</li><li>6. साहित्य समीक्षा की दृष्टि विकसित कराना ।</li><li>7. भारतीय तथा पाश्चात्य समीक्षा सिद्धांतों तथा हिंदी</li><li>8. आलोचना की विविध प्रणालियों का ज्ञान प्राप्त कराना ।</li><li>9. हिंदी में कार्य करने की रुचि विकसित कराना ।</li><li>10. हिंदी के विविध रूपों का परिचय कराना ।</li><li>11. प्रयोजनमूलक हिंदी का परिचय कराना ।</li><li>12. पत्राचार के स्वरूप का परिचय कराना ।</li></ol> <hr/> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"><li>1. सृजनात्मक लेखन के विविध क्षेत्रों के महत्त्व तथा उपयोगिता से परिचित कराना।</li><li>2. रचना विशेष का महत्त्व समझने एवं मूल्यांकन करने की क्षमता बढ़ाना ।</li><li>3. रचना के आस्वादन एवं समीक्षण की क्षमता विकसित कराना ।</li><li>4. रोजगार उन्मुख शिक्षा एवं कौशल प्रदान करना ।</li><li>5. कार्यालय और व्यवसाय में हिंदी प्रयोग का कौशल ज्ञान विकसित कराना।</li><li>6. अनुवाद और व्यावहारिक लेखन का महत्त्व तथा उपयोगिता से परिचित कराना ।</li><li>7. हिंदी व्याकरण का परिचय कराना ।</li><li>8. रोजगार परक हिंदी की उपयोगिता स्पष्ट करना ।</li><li>9. छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ावा देना ।</li><li>10. छात्रों में हिंदी भाषा के श्रवण, पठन एवं लेखन कौशल को विकसित कराना।</li></ol>
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**Department of English**

**A) U.G. Course / Programme**

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
Ability Enhancement Compulsory Course English for Communication (Comp. Eng) (CBSC) (B.A Part I)	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To inculcate human values among the students through poems and prose.</li> <li>2. To acquire language skills by reading and understanding the lessons and poems.</li> <li>3. To Acquire language skills by reading and understanding the lessons and poems.</li> <li>4. To Create interest in English Language.</li> <li>5. To increase the word-power through Vocabulary section.</li> <li>6. To understand the word formation and acquire word-power.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To acquaint and equip students with communication skills.</li> <li>2. To improve the language competence of the students.</li> <li>3. To develop the writing skill of the students.</li> <li>4. To enhance the speaking to acquire the language ability for their future opportunity.</li> </ol>

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
Optional English Modern Indian Writing in English Translation. (B.A Part I)	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with translated Modern Indian Literature in English.</li> <li>2. To introduce the students to short story as a form of literature with reference to the texts prescribed.</li> <li>3. To develop literacy competence among students..</li> <li>4. To acquaint and inculcate in them human values through interpretation of the literacy works.</li> <li>5. To enhance the life experience and their overall development through the works.</li> <li>6. To acquaint them with different social problems and issues in the society.</li> <li>7. To acquaint them with different kinds of poetic devices.</li> <li>8. To acquaint them with cultural, Social, Political issues and to develop a critical attitude among them.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

**U.G Course / Programme (B.Com I)**

**Course Objective:**

1. To acquaint and equip student with effective business communication skills.
2. To inculcate human values among the student s thorough poems and pros.
3. To improve the language competence of the students.

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
Ability to Enhancement Compulsory Course English for Business Communication (Compulsory English) (CBCS) B.Com. I	<b>Knowledge Domain:</b> 1. To enable the students acquire Essential communication skills in English. 2. To enable the students to understand difference between oral and written skills. 3. Acquire skills of preparing P.P.T and compering. 4. To Create interest in English Language. 5. To Equip the students with the language skills. <b>Skill Domain:</b> 1. To prepare the students to learn and practice both language. 2. To help the students to learn and practice both language. 3. To develop the students essential employability skills. 4. To enable the students to develop communicative skill. 5. To make the students active in spoken & written English.

**U.G Course / Programme (B.Sc I)**

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
B.Sc. I Ability to Enhancement Compulsory Course English for Communication (Compulsory English) (CBCS)	<b>Knowledge Domain:</b> 1. To enable the students acquire Essential communication skills in English. 2. To enable the students to understand difference between oral and written skills. 3. To Create interest in English Language. 4. To Equip the students with the language skills. <b>Skill Domain:</b> 1. To make the students active in spoken & written English. 2. To enable the students to develop communicative skill. 3. To develop the students essential employability skills. 4. To help the students to learn and practice both language.



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

A) U.G Course/Programme (B.A II, B.Com II, B.Sc. II only)

Objective:

- 1) To acquaint the equip students with communication skills.
- 2) To inculcate human value among the student through poems & pros.
- 3) To improve the language competence of the student.

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
Ability Enhancement Compulsory Course English for Communication (Comp. Eng) (CBSC) B.A.II	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1. To enable the students to develop communication skills in English both oral and written.</li> <li>2. To equip the students with the language skills for use in their personal, academic and professional lines.</li> <li>3. To develop the students essential employability skills.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To help the students to learn practice both language &amp; soft skills.</li> <li>2. To encourage the active involvement of the students in learning.</li> <li>3. To facilitate and help the students to acquire communication skills.</li> <li>4. To help the students to enter the job markets with confidence and the ability to work effectively.</li> </ol>

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.A II</b> DSC – C-29 Paper V Literature and Cinema	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1.To introduce film and its relationship to literature to the students</li> <li>2.To acquire film literacy through a working knowledge.</li> <li>3. To develop critical approach to enage with film adaption.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To establish clear understandings of literature through film adoptions of literacy texts.</li> <li>2. To introduce students to the issues and practices of cinematic adaptations.</li> </ol>

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
B.A. II DSC – C6 Paper IV Partition Literature (CBCS)	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1.To Create an awareness of the partition hidden human dimensions of the partition to the students</li> <li>2.To explain the elaborate on the impact of partition on society</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1. To encourage the students to participate in conduct social activities.</li> <li>2. To develop devotional towards nationality among the students.</li> <li>3.To help the students to share equality among the fellow citizens.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
B.Com II English for Business Communication	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>To enable the students acquire Essential Communication Skills in English.</li> <li>To enable the students to understand difference between oral and written skills.</li> <li>Acquire skills of preparing P.P.T. and compering.</li> <li>To Create interest in English Language.</li> <li>To Equip the students with the language skills.</li> </ol> <p><b>Skill Domain:</b></p> <p>To prepare the students to be proficient in their spoken and written Communication Skills in English.</p> <ol style="list-style-type: none"> <li>To help the students to Learn and Practice both language.</li> <li>To develop the students essential employability skills and soft skills.</li> <li>To enable the students to develop communicative skill.</li> <li>To make the students active in spoken and written English.</li> </ol>

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.A.III Spl.</b> <b>Semester-V</b> <b>1.PaperNo.VII</b> <b>Literary Criticism</b> <b>and Appreciation</b>	<p><b>Knowledge Domain-</b> To enable the students</p>
	1.to understand theory of Mimesis by Plato and Aristotle
	2. to understand the concept of irony and satire
	3.to understand Sidney’s view on Poetry
	4.to understand relation between Classical Criticism and Renaissance Criticism
	5.to understand importance of major literary movements
	<p><b>Skill Domain</b></p>
	1.to recognize contribution of literary works
	2.to analyze and interpret literary works
	3. to explain salient features of Classical, Neo Classical Criticism
4. to find relation between Classical Criticism and Renaissance Criticism	
5. to identify literary movements.	
<b>B.A.III Spl</b> <b>Semester-VI</b> <b>1.PaperNo.XII</b> <b>Literary Criticism</b> <b>and Appreciation</b> <b>Paper No. XII</b>	<p><b>Knowledge Domain:</b> To enable the students</p>
	1.to know the nature of practical criticism
	2.to know important literary terms.
	3.to understand the literary theory and practice of the formalist movement.
	4.to study the basic principles of New Criticism.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p><b>Skill Domain</b></p> <p>1.to write critical appreciation of poetry</p> <p>2.to know how critics have done practical criticism</p> <p>3. to identify literary theory by studying literary work.</p> <p>4.to adopt basic principles of New Criticism in the composition of different literary Forms.</p>
<p><b>B.A.III Spl Semester-V Paper No. X Understanding Novel</b></p>	<p><b>Knowledge Domain</b> To enable the students</p> <p>1.To understand the concept of Realistic Novel in English</p> <p>2. To understand the concept of Science Fiction</p> <p>3. To understand the term Campus Novel</p> <p>4. To understand the concept, meaning and features of translation.</p> <p>5. To know about Anita Desai’s life, works and career as a novelist.</p>
	<p><b>Skill Domain</b></p> <p>1. to take the survey of prominent writers in the tradition of Realistic Novel.</p> <p>2.to generalize the features of Science Fiction.</p> <p>3.to identify difference between Campus Novel and other types of novels.</p> <p>4.To know the role and qualities of translator.</p> <p>5.to explain important thematic issues in the novel Journey to Ithaca.</p>
	<p><b>B.A.III Spl Semester-VI Paper No. XV Understanding Novel</b></p>
	<p><b>Knowledge Domain To enable the learners</b></p> <p>1.to know historical and political perspective of South Africa.</p> <p>2.to learn about the life and work of J. M. Coetzee.</p> <p>3.to know about the plot summary of the novel</p>
	<p><b>Skill Domain</b></p> <p>1. to realize historical and political perspective of South Africa.</p> <p>2. to know about the life and work of J. M. Coetzee.</p> <p>3. to know about the plot summary of the novel</p>
	<p><b>B.A.III Semester-V Paper No. XI Structure and Function of Modern English</b></p>
	<p><b>Knowledge Domain:</b> To enable the students</p> <p>1. to understand the concepts of phonology, phoneme and allophone</p> <p>2. to understand the terms Morphs, Morphemes, Allomorphs and Morphology</p> <p>3. to understand the open class and close class words</p> <p>4. to understand phrases as a unit of language.</p>
	<p><b>Skill Domain:</b></p> <p>1.To explain speech mechanism and organs of speech</p> <p>2. To analysis the structure of complex words by identifying affixes, roots and stems.</p> <p>3. To distinguish between form and function of the words.</p> <p>4. To analyze six classes of phrases.</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

<p><b>B.A.III Semester-VI Paper No. XVI Structure and Function of Modern English</b></p>	<p><b>Knowledge Domain :</b>To enable the students</p> <ol style="list-style-type: none"> <li>1.to identify the elements of clause</li> <li>2. to understand the structure of complex sentences.</li> <li>3. to understand different classes of clauses.</li> <li>4. to understand form and function labels of clauses</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1.To explain the form and function of subordinate clauses</li> <li>2. To analysis form and function labels of clauses</li> <li>3. To distinguish between finite and nonfinite clauses</li> <li>4. To analyze relationship between subordination and coordination</li> </ol>
<p><b>B.A.III Semester-VI Paper No. VIII Poetry (Spl.)</b></p>	<p><b>Knowledge Domain :</b>To enable the students.</p> <ol style="list-style-type: none"> <li>1)To acquaint the students with the form of poetry.</li> <li>2)To make the understand history of the various ages.</li> <li>3)To acquaint the students with ages and Types of poetry.</li> <li>4) To acquaint the students with the literary background and prominent periods school of poetry and poets.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1)To understand the themes of the poems.</li> <li>2) To equip the reader with the confidence to understand and enjoy a poem on his/her own.</li> <li>3) To acquaint the students with the various forms of the poetry.</li> </ol>
<p><b>B.A.III Semester-VI Paper No. VIII Drama (Spl.)</b></p>	<p><b>Knowledge Domain :</b>To enable the students.</p> <ol style="list-style-type: none"> <li>1) To understand the Drama as a form of Literature.</li> <li>2) To understand the language of the play.</li> <li>3) To acquaint the students with the types of Drama.</li> </ol> <p><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1) To equip the students with the confidence to understand and enjoy drama on his own.</li> <li>2) To acquaint the students with the prominent themes and plots of drama.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

**Department of Economics  
U.G. Course / Programme (B.A)**

<b>Sr. No</b>	<b>Title of course</b>	<b>Course Outcomes (Statement)</b>
1.	CBCS B.A.I, Sem. I, (Indian Economy-I) <b>June 2018 on words</b>	<p><b>Skill Domain- A</b></p> <ol style="list-style-type: none"> <li>1) Economics students in general will be able to understand basic characteristic of Indian economy and economic development since Independence.</li> <li>2) They will also able to forecast, analyse policies and programmes set by state and central government and other development agencies.</li> <li>3) This paper deals with Economies students to understand Impact of population growth on economic development.</li> <li>4) This program also aims to provide the students an understanding International comparison with help of National Income, per capita income, Human development index etc.</li> </ol> <p><b>Skill Domain- B</b></p> <ol style="list-style-type: none"> <li>1. To awareness in student to population policy in India.</li> </ol> <p>To acquaint the student with structure of the Indian Economy and challenges taking place there in</p> <p><b>Knowledge Domain- A</b></p> <ol style="list-style-type: none"> <li>1) To introduce the students to all aspects of Indian Economy</li> <li>2) Develop ideas of the basic characteristics of Indian Economy</li> <li>3) To provide basic knowledge to students to various kind of challenges facing the India economy.</li> <li>4) It also help to understand the empirical aspects such as social and regional imbalances in India.</li> <li>5) To acquaint the students with structure of the Indian economy and changes taking place therein.</li> <li>6) To provide awareness on the subject of population of India.</li> </ol> <p><b>Knowledge Domain- B</b></p> <ol style="list-style-type: none"> <li>2. To introduce the student to the Indian economy.</li> <li>3. To develop an understanding of challenges facing the Indian Economy.</li> </ol>
2.	CBCS B.A.I, Sem. II, (Indian Economy-II)	<p><b>Skill Domain- A</b></p> <ol style="list-style-type: none"> <li>1) These program outcome provide a solid grounding to the students related to economic reforms and service sector in India.</li> <li>2) They will be able to understanding various problem faced by Indian economy and thinking realistic solution by own knowledge.</li> </ol> <p><b>Skill Domain- B</b></p> <ol style="list-style-type: none"> <li>1. To analyzed Role of service sector in India.</li> <li>2. To explain Impact of LPG Model on Indian Economy.</li> </ol> <p><b>Knowledge Domain- A</b></p>

		<ol style="list-style-type: none"> <li>1) To acquaint the students with the policies and performance of major sectors in Indian economy.</li> <li>2) To explain economic reforms introduced in India since 1991.</li> <li>3) To awareness in students to changing role of agriculture in Indian Economy</li> <li>4) It also helps to understand concept of agricultural pricing and procurement which play vital role farmers susides.</li> <li>5) To introduce New LPG model in Indian economy and its various aspects.</li> </ol> <p><b>Knowledge Domain- B</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with the policies and performance of major sectors in Indian Economy.</li> <li>2. To explain the economic reforms introduced in India since 1991.</li> </ol>
<p><b>3.</b></p>	<p><b>CBCS ,B.A. II (Sem. III and IV) Macro Economies – Money and Banking June 2019 on words</b></p>	<p><b>Skill Domain- A</b></p> <ol style="list-style-type: none"> <li>1) To give platform of Macro economics for various policies and planning of economy.</li> <li>2) Major objective of paper to introduce to students the basic primary and analytically important concepts, theories and policies in working of economy to the learners.</li> <li>3) To helps students to apply various concepts in process of policy making planning of measures to ensure and achieve the fundamentals of objectives of macroeconomics.</li> <li>4) To make ability explain monetary system in India and also understanding the operation of bank and financial institutions.</li> <li>5) To create awareness among the students and jobs prospects in Bank financial sectors.</li> <li>6) To create thinking ability in students resolve burning banking issues with their theoretical knowledge.</li> </ol> <p><b>Skill Domain- B</b></p> <ol style="list-style-type: none"> <li>1. The relevance of national income concepts and its applications in economic policy making.</li> <li>2. The output and employment generation process through investment and consumption</li> </ol> <p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1) To understanding the macro variables and components of macroeconomics.</li> <li>2) To introduce to basic concept of National income and their various aspects also deal with methods of measuring national income.</li> <li>3) To provide theoretical foundation of like theories of money approaches and also unemployment.</li> <li>4) To know the concept and aspects of Inflation.</li> <li>5) To understanding concepts of taxation and their types.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

		<p>6) To understanding the banking system and its functioning structure in India.</p> <p>7) To introduce the nature of banking business and business practices.</p> <p>8) To provide basic knowledge to students to role of reserve bank of India in credit control.</p> <p>9) To create theoretical and applied understanding of monetary economics.</p> <p>10) This course also makes students aware of financial system in India.</p> <p>11) To introduce to students meaning features and types of E Banking and the future in India.</p> <p>12) To study the Banking reform in India after 1991.</p>
<b>4.</b>	CBCS B.A.II, Sem. III, (Money and Banking)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Learners will be able to explain functions of money and measurement of money supply</li> <li>2. Learners will understand the banking system and its functioning in India.</li> <li>3. Learners will understand the nature of banking business and business practices</li> <li>4. Learners will understand the important recent trends in banking system</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explain monetary system in India</li> <li>2. Ability to critical thinking on banking business</li> <li>3. Ability to explain recent trends in Indian Banking</li> </ol>
<b>5.</b>	CBCS B. A.II, Sem. IV, (Macro Economics - II)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Public finance system of state and its impact on economy and citizens of the nation.</li> <li>2. The trade and business practices through international trade theories and other relevant concepts.</li> <li>3. The international monetary exchange system and determination of rate exchange.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The trade cyclical phenomenon in the economy and they will able to take practical decisions at their business level in future.</li> </ol>
<b>6.</b>	CBCS B.A.II, Sem. IV, (Banks and Financial Markets )	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students will be able to use e-banking services</li> <li>2. Students will be able explain working of RBI in India</li> <li>3. Students will be able to provide consultancy and guidance for investment in financial markets</li> <li>4. Students will be able to explain the business practices of NBFCs and AIFI</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Use of E-banking services.</li> <li>2. Able to provide Financial consultancy.</li> </ol>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

7.	CBCS B.A.III, Sem. V, (Principles of Micro Economics)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour.</li> <li>The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>The student should be able to apply tools of consumer behaviour and firm theory to business situation.</li> </ol>
8.	CBCS B.A.III, Sem. V, (Research Methodology in Economics -I)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To get acquaint with the research in Economics.</li> <li>To study the various aspects of research in Economics.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>To introduce research design and hypothesis testing in terms of research work to students.</li> </ol>
9.	CBCS B.A.III, Sem. V, (History of Economic thoughts-I)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand the development of economic thoughts.</li> <li>To analyze classical economics thoughts.</li> <li>To Introduce to students the role of Fredrick List economic thoughts in undeveloped countries.</li> <li>To study difference between Classical economic thoughts and Karl Marks economic thoughts.</li> </ol>
10.	CBCS B.A.III, Sem. V, (Economics of Development-I)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To know the concept and aspects of economic Development.</li> <li>To understand role of Sustainable development, green development and displacement in economic development.</li> <li>To understand the theories of economic growth and development.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>To introduce role of human Capital and the state in Economic development.</li> </ol>
11.	CBCS B.A.III, Sem. V, (International Economics)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand concepts of Trade and Trade theories.</li> <li>To create awareness in students abouts the impact of free trade and protective trade on different sectors of the economy.</li> <li>To Students also introduced the rationale of recent changes in the export-import policies of India.</li> </ol>
12.	CBCS B.A.III, Sem. VI, (Factor Pricing)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand Market Structure.</li> <li>To understand pricing in different Markets.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>The student should be able to apply tools of consumer behaviour and firm theory to business situation.</li> <li>To analyze factor pricing.</li> </ol>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<b>13.</b>	CBCS B.A.III, Sem. VI, (Research Methodology in Economics -II)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To study the sampling techniques as method of data collection.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>To study the various aspects of data processing and analysis.</li> <li>To train to students now to inter pretention data and right a report writing skill.</li> </ol>
<b>14.</b>	CBCS B.A.III, Sem. VI, (History of Economic thoughts-II)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand the economic concept and theories of New-Classical and Indian thinkers.</li> <li>To understand the development of Indian economic thoughts.</li> <li>To introduce to students Mahatma Gandhi economic thoughts and Modern Indian economists thoughts.</li> </ol>
<b>15.</b>	CBCS B.A.III, Sem. VI, (Economics of Development-II)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand the history, concepts and various issues of economic planning.</li> <li>To understand progress of planning in India 11<sup>th</sup> and 12<sup>th</sup> five year plan in India.</li> </ol>
<b>16.</b>	CBCS B.A.III, Sem. VI, (International Economics-II)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>To understand concepts of Balance Trade and Balance of payment related to foreign policy.</li> <li>To evaluated Foreign trade policy since 1991 and there effect on Indian Economy.</li> <li>To understand objectives and functions of International Institutions (IMF,WTO,SAARC)</li> </ol>
<b>17.</b>	CBCS B.Com-1 SEM-I Micro Economics (Paper-1)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour.</li> <li>The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>The student should be able to apply tools of consumer behaviour and firm theory to business situation.</li> </ol>
<b>18.</b>	CBCS B.Com-1 SEM-I Micro Economics (Paper-2)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour.</li> <li>The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>The student should be able to apply tools of consumer behaviour and firm theory to business situation.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p><b>19.</b></p>	<p>CBCS B.Com-2 SEM III Money and Financial System (Paper No-1)</p>	<p><b>Knowledge Domain-</b> 1. Learners will be able to explain functions of money and measurement of money supply 2. Learners will understand the banking system and its functioning in India. 3. Learners will understand the nature of banking business and business practices 4. Learners will understand the important recent trends in banking system <b>Skill Domain-</b> 1. Ability to explain monetary system in India 2. Ability to critical thinking on banking business 3. Ability to explain recent trends in Indian Banking</p>
<p><b>20.</b></p>	<p>CBCS B.Com-2 SEM IV Money and Financial System (Paper No-2 )</p>	<p><b>Knowledge Domain-</b> 1. Students will be able to use e-banking services 2. Students will be able explain working of RBI in India 3. Students will be able to provide consultancy and guidance for investment in financial markets 4. Students will be able to explain the business practices of NBFCs and AIFI <b>Skill Domain-</b> 1. Use of E-banking services. 2. Able to provide Financial consultancy. 3. Critical thinking about NBFCs and their effects</p>
<p><b>21.</b></p>	<p>CBCS B.Com-2 SEM-III MACRO ECONOMICS – PAPER- I</p>	<p><b>Knowledge Domain-</b> 1. The macro variables and components of macro economics 2. Changing value of money and its impacts on economy. <b>Skill Domain-</b> 1. The relevance of national income concepts and its applications in economic policy making. 2. The output and employment generation process through investment and consumption.</p>
<p><b>22.</b></p>	<p>CBCS B.Com-2 SEM-IV MACRO ECONOMICS – PAPER- II</p>	<p><b>Knowledge Domain-</b> 1. Public finance system of state and its impact on economy and citizens of the nation. 2. The trade and business practices through international trade theories and other relevant concepts. 3. The international monetary exchange system and determination of rate exchange. <b>Skill Domain-</b> 1. The trade cyclical phenomenon in the economy and they will able to take practical decisions at their business level in future.</p>
<p><b>23.</b></p>	<p>B.Com-3 SEM-V Business Environment – PAPER- I</p>	<p><b>Knowledge Domain-</b> 1. Indian economy has occupied a significant position in the world economy. Numbers of multinational companies are trying to enter in the Indian economy. As well as various</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

		<p>Indian companies have established their good status at international level.</p> <p>2. Indian intelligentsia is working at international industrial, banking finance, commercial, trading and technological field. Indian agriculture is undergoing technological changes. Agricultural sector has been providing livelihood to the majority of the Indian population.</p> <p>3. During the recent era service sector is growing rapidly.</p> <p><b>Skill Domain-</b></p> <p>1. Still Indian economy is facing some of the fundamental economic problems.</p> <p>2. On this background our students should have to know economic environment at national and international level.</p>
24.	B.Com-3 SEM-V Cooperative Development – PAPER- I	<p><b>Knowledge Domain-</b></p> <p>1. To study the meaning and principles of Co-operation.</p> <p>2. To study the agricultural and Non-agricultural Credit Co-operative institutions.</p> <p>3. To study the Co-operative movement in Maharashtra.</p> <p>4. To Study the impact of Globalization on Co-operative movement.</p> <p><b>Skill Domain-</b></p> <p>1. Proper understanding of co-operative thoughts and administration is a prerequisite for study of co-operative movement.</p>
25.	B.Com-3 SEM-VI Business Environment – PAPER- II	<p><b>Knowledge Domain-</b></p> <p>1. Indian economy has occupied a significant position in the world economy. Number of multinational companies are trying to enter in the Indian economy. As well as various Indian companies have established their good status at international level.</p> <p>2. Indian intelligentsia is working at international industrial, banking finance, commercial, trading and technological field. Indian agriculture is undergoing technological changes. Agricultural sector has been providing livelihood to the majority of the Indian population.</p> <p>3. During the recent era service sector is growing rapidly.</p> <p><b>Skill Domain-</b></p> <p>1. Still Indian economy is facing some of the fundamental economic problems.</p> <p>2. On this background our students should have to know economic environment at national and international level.</p>
26.	CBCS B.Com-3 SEM-VI Cooperative Development – PAPER- II	<p><b>Knowledge Domain-</b></p> <p>1. To study the agricultural and Non-agricultural credit co-operative institutions.</p> <p>2. To acquaint the students with co-operative movement.</p> <p>3. To study the impact of Globalization on co-operative Movement.</p> <p>4. To develop the capabilities of students for knowing different types of cooperatives.</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

		<p>5. To study the role of state and central govt. in development of co-operative sector.</p> <p>6. To give basic knowledge of co-operative society and its administration.</p> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"><li>1. Proper management of co-operative institutes and administration is a prerequisite for study of co-operative movement.</li></ol>
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**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

**Department of Sociology**

**A) U.G. Course / Programme (B.A.)**

Title of course	Course Outcomes (Statements)
B.A. I SEM I SOCIOLOGY-I INTRODUCTION TO SOCIOLOGY DSC-B2,	<b>Knowledge Domain-</b> 1. To introduce nature of Sociology 2. To introduce characteristics and types of society and social institutions 3. To inform students about Culture and socialization process <b>Skill Domain</b> 1. To analyze development of Sociology at global level 2. To analyze development of Sociology in India 3. Skill to interpret Indian culture 4. Interpretation of social institutions
SEM - II APPLIED SOCIOLOGY DSC-B16, SOCIOLOGY– II	<b>Knowledge Domain-</b> 1. Introduction of various theoretical approaches in sociology 2. Introduction of types of mass media 3. Information about career opportunities in Sociology <b>Skill Domain</b> 1. developing participative perspective of students regarding social movements 2. various skills necessary for working in media 3. Skills required for working in social sector and NGO
B.A. II SEM III Paper No III Social Issues In India CBCS	<b>Knowledge Domain-</b> 1. Nature and classification of Social Issues 2. Dimensions of Socio-Cultural issues such as communalism 3. Causes of socio-economic issues and remedies for it 4. New perspective for socio-legal issues like cyber crime <b>Skill Domain</b> 1. Finding social issues in society 2. Finding reasons behind various socio-economic issues 3. Analyzing interdependence of Social and cultural issues
SEM III Paper No IV Social Movements In India CBCS	<b>Knowledge Domain-</b> 1. Characteristics and elements of social movements 2. Introduction of peasant movements and major peasant movements 3. Problems of dalit and tribal community <b>Skill Domain</b> 1. To analyze importance of social movements 2. To analyze developments in dalit movements 3. To evaluate present condition of tribal community in India
SEM IV Paper No V Gender and Violence CBCS	<b>Knowledge Domain</b> 1. Meaning of gender and gender violence 2. Concept of domestic violence 3. Various forms of violence against tribal, rural and urban women <b>Skill Domain</b> 1. To find out causes of dowry and divorce 2. To find major gender issues in contemporary India 3. Remedies to help harassed women in society

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p>SEM IV Paper No VI Sociology of Health CBCS</p>	<p><b>Knowledge Domain</b> 1. Nature of Sociology of Health 2. Introduction of major diseases in India such as diabetes, heart diseases and cancer 3. Introduction of Health Policy in India <b>Skill Domain</b> 1. To acknowledge importance of sociology of health 2. To find out causes and remedies on health problems 3. To analyze difference between traditional and modern lifestyle</p>
<p>SEM III IDS Paper I Social Reforms In India CBCS</p>	<p><b>Knowledge Domain-</b> 1. Introduction of various socio-religious reform movements in India 2. Social Contribution of RajarshiShahu Maharaj and Dr. B.R. Ambedkar <b>Skill Domain</b> 1. To analyze role of socio-religious reform movements in India 2. To analyze role of RajarshiShahu Maharaj and Dr. B.R.Ambedkar in social upliftment of lower classes</p>
<p>SEM IV IDS Paper II Social Reforms In India CBCS</p>	<p><b>Knowledge Domain-</b> 1. Introduction of social condition in early 19<sup>th</sup> century 2. Contribution of women reformers like Savitribai Phule, Tarabai Shinde and Pandita Ramabai in Women development 3. Contribution of social reformers like KarmveerBhauraoPatil <b>Skill Domain</b> 1. To analyze difference between social condition of early 19<sup>th</sup> century and contemporary society 2. To evaluate impact of KarmveerBhaurav Patil and BapujiSalunkhe's educational work on contemporary education system 3. To analyze contribution of Panjabrav Deshmukh in Indian educational policy</p>
<p>B.A. III SEM V Paper No VII Western Sociological Thinkers</p>	<p><b>Knowledge Domain-</b> 1. Introduction of sociological thoughts of pioneers of sociology 2. Contribution of August Comte as Father of Sociology 3. Theoretical works of Emile Durkheim, Karl Marx and Max Weber <b>Skill Domain</b> 1. To evaluate development of sociology as social science 2. To analyze importance of Karl Marx's Class Conflict theory in contemporary industrial sector 3. To evaluate role of Max Weber's theory of religion and social change in India</p>
<p>SEM V Paper No VIII Methods of Social Research (Part I)</p>	<p><b>Knowledge Domain-</b> 1. Introduction of meaning and characteristics of social research 2. Introduction of different types of social research 3. Introduction of various issues in social research <b>Skill Domain</b> 1. To impart basic research skills 2. To distinguish between theory and facts 3. Qualities of good researcher</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p>SEM V Paper No IX (A) Rural Sociology</p>	<p><b>Knowledge Domain-</b> 1. Introduction of profile of rural community 2. Basic concepts of rural community and rural development 3. Importance of rural sociology <b>Skill Domain</b> 1. To analyze difference between rural and urban community 2. To evaluate various approaches to study rural development 3. To analyze obstacles in rural development</p>
<p>SEM V Paper No X (A) Industrial Sociology</p>	<p><b>Knowledge Domain-</b> 1. Structure of industry and industrial society 2. Industrial organization and its functioning 3. Introduction of industrial Bureaucracy <b>Skill Domain</b> 1. To evaluate importance of study of Industrial Sociology 2. To analyze impact of industrialization on society 3. To evaluate role of industrial management</p>
<p>SEM V Paper No XI (B) Human Rights</p>	<p><b>Knowledge Domain-</b> 1. Conceptual understanding about human rights 2. Introduction of United Nations Organizations and various international covenants regarding human rights 3. Introduction of human rights for weaker sections <b>Skill Domain</b> 1. To evaluate various perspectives of human rights 2. To analyze interrelation of Indian Constitution and human rights 3. Analysis of mechanisms for implementation of human rights in India</p>
<p>SEM VI Paper No XII Indian Sociological Thinkers</p>	<p><b>Knowledge Domain-</b> 1. Introduction of ideologies given by various Indian Sociologists 2. Introduction of study of village structure in India by A.R. Desai 3. Interpretation of Hindu Culture by Irawati Karve <b>Skill Domain</b> 1. To analyze caste system in India 2. To evaluate process of sanskritization in India 3. To analyze kinship relations in India</p>
<p>SEM VI Paper No XIII Methods of Social Research (Part II)</p>	<p><b>Knowledge Domain-</b> 1. Introduction of various research tools 2. Advantages and limitations of research tools 3. Various issues related to use of research tools <b>Skill Domain</b> 1. To use various sources of data collection 2. Use of computer in analysis of data 3. Writing of research report</p>
<p>SEM VI Paper No XIV Rural Sociology in India (A)</p>	<p><b>Knowledge Domain-</b> 1. Introduction of Indian rural social structure 2. Nature of village studies conducted by different Indian Sociologists 3. Introduction of Panchayat Raj system <b>Skill Domain</b></p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"><li>1. To evaluate change in rural social structure of India</li><li>2. To analyze role of co-operative movement in rural reconstruction</li><li>3. To evaluate impact of Panchayat Raj System on rural society</li></ol>
SEM VI Paper No XV(A) Industrial Sociology	<b>Knowledge Domain-</b> <ol style="list-style-type: none"><li>1. Introduction of workers role in industrial organizations</li><li>2. Nature of Industrial relations in India</li><li>3. Introduction of Corporate Social Responsibility</li></ol> <b>Skill Domain</b> <ol style="list-style-type: none"><li>1. To analyze functions and problems of trade union in India</li><li>2. To evaluate various causes of industrial disputes</li><li>3. To analyze recent trends in Indian Industry such as atomization and computerization</li></ol>
SEM VI Paper No XVI(B) Social Welfare	<b>Knowledge Domain-</b> <ol style="list-style-type: none"><li>1. Introduction of concept social welfare with its historical background</li><li>2. Introduction of educational facilities for Scheduled Castes and Scheduled Tribe</li><li>3. Introduction of policies for child and women welfare</li></ol> <b>Skill Domain</b> <ol style="list-style-type: none"><li>1. To analyze interrelation between education and social welfare</li><li>2. To evaluate welfare activities for different sections of society</li><li>3. To analyze policies and legislative measures with respect to welfare programmes in India</li></ol>



**Department of History**

**U.G. Course/Programme (B.A.)**

Title of course	Course Outcomes (Statements)
B.A.I (Sem. I) P. I Rise of Maratha Power	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To introduce students to the history of the rise of Maratha power with main emphasis on life and work of Chhatrapati Shivaji Maharaj.</li> <li>2. To apprise the students with the sacrifices made by Maratha leaders and people to protect freedom and sovereignty of the region.</li> <li>3. To understand a Concept of Maratha Period</li> <li>4. Student has studied Literary Sources of Maratha History</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student view increased of Nationalism and Secularism.</li> <li>2. To analyzed Role of Chatrapati and Maratha Solder in Rise of Maratha Power.</li> <li>3. Increase the spirit of healthy Nationalism and Secularism among the student.</li> <li>4. Ability to explain Concept of Maratha Period.</li> </ol>
B.A.I (Sem. II) P. II Polity, Economy and Society under the Maratha	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Understand the Socio-Economical and Political background of 17<sup>th</sup> century.</li> <li>2. Student got knowledge fundamental changes in the political, socio-economic and cultural life of the Maratha State people.</li> <li>3. Student has studied Agriculture, Trade and Industry of Maratha period.</li> <li>4. Student has studied administration and Management system of Maratha Period</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with the political, socio-economic and religious life of the people during the 1600-1707 period.</li> <li>2. It will educate the students about the policy and contribution of Chhatrapati Shivaji Maharaj.</li> <li>3. Increase the spirit of healthy Nationalism and Secularism among the student.</li> <li>4. Ability to explain Expansion of Maratha Power.</li> </ol>
B.A. II (Sem. III) P-III History of Modern Maharashtra (1900-1960)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Understand the beginnings and growth of nationalist consciousness in Maharashtra</li> <li>2. Understand the contribution of Maharashtra to the national movement</li> <li>3. Give an account of various movements of the peasants, workers, women and backward classes</li> <li>4. Know the background and events which led to the formation of separate state</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain beginnings and growth of nationalist consciousness in Maharashtra.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"> <li>2. Explain the contribution of Maharashtra to the national movement.</li> <li>3. Student able to explain account of various movements of the peasants, workers, women and backward classes.</li> <li>4. Ability to explain the background and events which led to the formation of separate state</li> </ol>
B.A. II (Sem. III) P-IV History of India (1757-1857)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Know the colonial policy adopted by the company to consolidate its rule in India</li> <li>2. Understand the structural changes initiated by colonial rule in Indian economy.</li> <li>3. Understanding the history of the East India Company and its coming to India.</li> <li>4. Understanding the Basic narratives of East India Company in relation to administration, legislation, police, army, etc.</li> <li>5. Understanding the historical ideas and various arguments on permanent settlement, Raiyatwari and Mahalwari settlement.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Acquaint himself with significant events leading to establishment of the rule of East India Company.</li> <li>2. Explain the various revolts against rule of the East India Company.</li> <li>3. Student able to explain the structural changes initiated by colonial rule in Indian economy.</li> <li>4. Student able to explain the historical ideas and various arguments on permanent settlement, Raiyatwari and Mahalwari settlement.</li> </ol>
B.A. II (Sem. III) IDS Social Reforms in India-I	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To Understand the salient features of prominent socio-religious reform movements</li> <li>2. To Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India</li> <li>3. Know the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women.</li> <li>4. To Understand Life and Work of Mahatma Phule</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Explain the Socio-Religious Reform Movements in India</li> <li>2. Explain the thought of Mahatma Phule in the book Shetkaryancha Asud and Gulamgiri</li> <li>3. Explain the thought and work of Mahatma Phule for radical transformation of Indian society.</li> <li>4. Explain the work of Ambedkar on the annihilation of the caste system and untouchability in India</li> </ol>
B.A. II (Sem. IV) P-V History of Modern Maharashtra (1960-2000)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Know about the economic transformation of Maharashtra .</li> <li>2. Understand the salient features of changes in society</li> <li>3. Student have studied various concept of Modern Maharashtra</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>4. Students have studied Social Movement and Educational Development in Maharashtra..</p> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Acquaint himself with the contribution of eminent leaders of Maharashtra.</li> <li>2. Explain the growth of education</li> <li>3. Ability to explain the economic transformation of Maharashtra .</li> <li>4. Ability to explain the concept of Modern Maharashtra</li> </ol>
<p>B.A. II (Sem. IV) P. VI History of Freedom Struggle in India (1858-1947)</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Understand the events which lead to the growth of nationalism in India</li> <li>2. Know the concept of Communalism and the causes and effects of the partition of India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi</li> <li>2. Explain the contribution of Revolutionaries, Left Movement and Indian National Army</li> <li>3. Acquaint students with fundamental aspects of Modern Indian History.</li> </ol>
<p>B.A. II (Sem. IV) IDS Social Reforms in Maharashtra-II</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj.</li> <li>2. Understand the contribution of women reformers</li> <li>3. To understand the Social condition(Maharashtra) in early 19th century</li> <li>4. To understand Educational Reforms in Maharashtra.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The student should be able to Explain the contribution of Social reformers in the fight for social justice</li> <li>2. The student should be able to explain the role played by educational reforms in transformation of society.</li> <li>3. Ability to explain the contribution of women reformers</li> <li>4. Ability to explain the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj.</li> </ol>
<p>B.A.III (Sem. V) P. VII History of Ancient India</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To understand the Harappa Civilization: Spread and Town-planning.</li> <li>2. To understand the Vedic Culture</li> <li>3. To study the Second urbanization and 16 Mahajanapadas</li> <li>4. To understand the philosophy of Jainism and Buddhism.</li> <li>5. To study the Literary Sources of Mauryan Period (Arthashastra and Indica)</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The student should be able to explain the philosophy of Jainism and Buddhism.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"> <li>2. Ability to explain the deference between Early Vedic Culture and Later Vedic Culture</li> <li>3. Ability to explain the Literary Sources of Mauryan Period.</li> <li>4. The student should be able to explain the Town-planning of Harappa Civilization.</li> </ol>
<p>B.A.III (Sem. V) P. VIII Political History of Medieval India (1206-1707)</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To Study the Various Sources of Medieval India.</li> <li>2. To study the Administrative System of Sultans and Mughal Empire.</li> <li>3. To understand the Policy and Internal reform of Allauddin Khilaji and Muhammad-bin-Tughlaq .</li> <li>4. To understand the Religious policy of Emperor in Medieval India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The student should be able to explain the Sources of Medieval India</li> <li>2. Ability to explain Administrative System of Sultans and Mughal Empire.</li> <li>3. Ability to explain deference between Religious policy of Akbar and Aurangzeb.</li> <li>4. The student should be able to explain the Cultural development of Medieval India.</li> </ol>
<p>B.A.III (Sem. V) P. IX India Science Independence-I</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To understanding of major developments in India among the students.</li> <li>2. To study the Agriculture development in India.</li> <li>3. To study the Industry and Trade development in India</li> <li>4. To understanding five year plans and its Impact.</li> <li>5. To study Political Parties in India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explain the Agriculture development in India.</li> <li>2. Ability to explain the Industry and Trade development in India</li> <li>3. Ability to explain the five year plans and its Impact.</li> <li>4. Ability to explain the role of Political Parties in India.</li> </ol>
<p>B.A.III (Sem. V) P.X History of Maratha (1707-1818)</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study the Political Condition under the Peshava period.</li> <li>2. To study Causes for the decline of Maratha Power</li> <li>3. To learn the Socio-Economic Condition of Maratha peiod.</li> <li>4. To understand Cultural development of Maratha period.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain the Political Condition under the Peshava period.</li> <li>2. To analysis the Causes for the decline of Maratha Power</li> <li>3. Ability to explain the Socio-Economic Condition of Maratha period.</li> <li>4. Ability to explain Cultural development of Maratha period.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p>B.A.III (Sem. V) P.XI Introduction to Historiography</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student knows what is history and kind of history.</li> <li>2. To study Acquisition of Historical Data</li> <li>3. To study Process of History Writing</li> <li>4. To study Tools of Writing History</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students will produce well researched written work with primary and secondary sources.</li> <li>2. Acquire skill of Acquisition of Historical Data.</li> <li>3. Acquire skill of History Writing.</li> </ol>
<p>B.A.III (Sem. VI) P. XII History of Ancient India</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study Sources of Ancient India.</li> <li>2. To study Major Kings and their achievements.</li> <li>3. To study Art and Architecture of Ancient India.</li> <li>4. To learn Auxiliary Science of ancient India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Acquire evolution skill of Sources of Ancient India.</li> <li>2. Student able to explain Major Kings and their achievements.</li> <li>3. Student able to use Auxiliary Science to study of ancient India.</li> </ol>
<p>B.A.III (Sem. VI) P. XIII Socio-Economic and Cultural History of Medieval India</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To understand the Socio-Economic condition of Medieval India.</li> <li>2. To study Industry and Trade in Medieval India.</li> <li>3. To understand the Religious and his philosophy in Medieval India.</li> <li>4. To understand the Cultural Development.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain the Socio-Economic condition of Medieval India.</li> <li>2. Student able to explain the Religious and his philosophy in Medieval India.</li> <li>3. Ability to explain the Cultural Development.</li> </ol>
<p>B.A.III (Sem. VI) P. XIV India since Independence- II</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Understanding of major developments in India after Independence.</li> <li>2. To study Foreign policy of India.</li> <li>3. To study various problems and movements in India after Independence.</li> <li>4. To understand the Concept, Merit and Demerit of Globalization, Liberalization and Privatization.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain and analysis the Foreign policy of India.</li> <li>2. Student able to solve various problems of human life.</li> <li>3. Student able to explain and analysis Concept, Merit and Demerit of Globalization, Liberalization and Privatization.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p>B.A.III (Sem. VI) P. XV Modern Maharashtra (1960 to 2000)</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"><li>1. To study the Formation of Maharashtra state.</li><li>2. Understand the Role of major political parties and personalities in Formation of Maharashtra state.</li><li>3. To study Social movements in Modern Maharashtra.</li><li>4. To study Cultural development in 20<sup>th</sup> century Maharashtra.</li></ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"><li>1. Ability to explain the Formation of Maharashtra state.</li><li>2. Student able to explain Contribution of major political parties and personalities in Formation of Maharashtra state.</li><li>3. Student able to explain Contribution of reformers to Social movements.</li></ol>
<p>B.A.III (Sem. VI) P. XVI Application of History</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"><li>1. To understand Definition, Nature and Type of Museum.</li><li>2. To understand Definition, Nature and Type Tourism.</li><li>3. To study the Conservation and Preservation.</li><li>4. To study the Importance of History for the preparation of Competitive Examinations.</li></ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"><li>1. Acquire skill of the Conservation and Preservation.</li><li>2. Acquire skill of Application of History.</li><li>3. Ability to explain Definition, Nature and Type of Museum and Tourism.</li></ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

**Department of Geography**

**U.G. Course / Programme (B.A.):**

<b>Sr. No.</b>	<b>Title of Course</b>	<b>Course Outcomes ( Statements)</b>
1	CBCS B.A. I, Sem. I, (DSE-I) Physical Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To introduction the latest concept in physical geography.</li> <li>2. To acquaint terrain feature of the earth surface.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. The scientific observation of natural element.</li> <li>2. The realization mutual relationship between biotic and a biotic elements.</li> </ol>
2	CBCS B.A. I, Sem. II, (DSE-II) Human Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To inculcate the value of natural environment in human life.</li> <li>2. To explain the stages of human development.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Student understands the importance of natural resources in human Development.</li> <li>2. Student can find relationship between economic activity and natural Resources.</li> </ol>
3	CBCS B.A. II, Sem. III, (DSE-III) Soil Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To familiarize students with the basics and fundamental concepts of Soil Geography.</li> <li>2. Students should know the concepts related soil erosion and Degradation, causes and controlling factors.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Students can understand the process of soil formation and it's Biological, physical and chemical properties.</li> <li>2. Student can find out the relationship between the soil types and Cropping patterns.</li> </ol>

<b>Sr. No.</b>	<b>Title of Course</b>	<b>Course Outcomes ( Statements)</b>
4	CBCS B.A. II, Sem. III, (DSE-IV) Resource Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To understand the classification and importance of resources of the Earth surface.</li> <li>2. To examine the major resources and optimum use of it.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Students try to attain the practice of sustainable development.</li> <li>2. Students can predict the threats and scarcity of resources.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

5	CBCS B.A. II, Sem. IV, (DSE-V) Oceanography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>To acquaint the students with the basic and fundamental concept of Oceanography.</li> <li>The students should know the physical, chemical and biological Properties of oceanic water.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>The students should know the importance of oceans as source of Resources.</li> <li>The students get aware about pollution of oceans.</li> </ol>
6	CBCS B.A. II, Sem. IV, (DSE-VI) Agricultural Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>The course also aims to familiarize the students with agricultural Concepts and modern technologies.</li> <li>To study the green revolution.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>Students get innovations opportunities in different cropping pattern.</li> <li>Students examine the regional variation the crop productions.</li> </ol>
7	CBCS B.A. III, Sem. V, Geographical Thought Or DCE : E-106	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>To study the historical evolution of Geographical thoughts.</li> <li>To Study the paradigms and debates in Geographical studies.</li> <li>To study the recent trends in Geography</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>Students should be able to understand in-depth about the evolution of Geographical thoughts.</li> <li>Students should be able to use of various models of paradigms and debates in Geographical studies.</li> </ol>
8	CBCS B.A. III, Sem. V, E-107 Geography of India	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>The acquaint the students with distinct dimensions of India.</li> <li>To understand the physical and cultural set of the country.</li> <li>To help the students to understand recent in regional geography.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>The students get deferential information of their country.</li> <li>The students enrich their general knowledge.</li> </ol>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<b>Sr. No.</b>	<b>Title of Course</b>	<b>Course Outcomes ( Statements)</b>
9	CBCS B.A. III, Sem. V, Population Geography DSE : E-108	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To study the basics of population Geography.</li> <li>2. To Study the population dynamics.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. The student's would get an understanding of distribution and trends of population growth of the world along with population concepts.</li> <li>2. The students would get an understanding of the dynamics of Population.</li> </ol>
10	CBCS B.A. III, Sem. VI, E-109 Urban Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To study the types of urban settlements, site and situation.</li> <li>2. To ideas of relationship between human activities and urban Development.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. To find out extension of urban settlements and opportunities of Employment.</li> <li>2. To guess the needful services.</li> </ol>
11	CBCS B.A. III, Sem. VI, DSE-E233 or XII Political Geography	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with distinct dimensions of political Geography.</li> <li>2. To evaluate Geo-political issues in the world.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. To find out the role of natural resources in political impact.</li> <li>2. To student can explain the relation of development of region and Unity of political leader?</li> </ol>
12	CBCS B.A. III, Sem. VI, Economic Geography DSE : E-231	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To study the basics of Economic Geography.</li> <li>2. To study the basics concepts related manufacturing and major Industries of selected countries of the world.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Student should be able in-depth understanding about economic Geography.</li> <li>2. Student can detail understanding of the basics concepts of  Manufacturing and industries of the world.</li> </ol>
13	CBCS B.A. III, Sem. VI, DSE-E-234 or XIII Fundamentals of Map Making and Map Interpretation	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To introduce the students with the importance of map making and Map interpretation.</li> <li>2. To provide the training in analysis of landforms.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Students should develop skill of interpretation.</li> <li>2. Students can handle smoothly the weather instruments.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

14	CBCS B.A. III, Sem. VI, DSE-E-235 or XIV Advanced Tools, Techniques and Field Work in Geography	<b>Knowledge Domain</b> 1. To enhance the skill of the students in instrumental survey. 2. To enable the students understand the use of ICT. <b>Skill Domain</b> 1. Students should prepare map of land survey. 2. Students able to organize excursion tour.
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**Department of Commerce**

**B) U.G. Course / Programme 2019-2020**

Title of course	Course Outcomes (Statements)
<b>B. Com. I</b> <b>1) Financial Accounting</b>	<b>Knowledge Domain-</b> <ol style="list-style-type: none"> <li>1. Difference between installment and hire purchase.</li> <li>2. How to maintain books of recording under hire purchase installment method.</li> <li>3. Recording entries of joint venture account.</li> <li>4. What are dependent and independent branch.</li> </ol> <b>Skill Domain</b> <ol style="list-style-type: none"> <li>1. Student can able to make necessary journal entries in the books of record under hire purchase method.</li> <li>2. Able to maintain royalty and joint venture accounts.</li> <li>3. Easily examine the dissolution of partnership.</li> <li>4. Easily can prepare the journal entries of amalgamations and sale of partnership firms.</li> </ol>
<b>B. Com. I</b> <b>2) Principals Of Marketing</b>	<b>Knowledge Domain-</b> <ol style="list-style-type: none"> <li>1. To Understand the place and contribution of marketing to the business enterprise.</li> <li>2. Identify the major basis of market segmentation.</li> <li>3. To understand product life cycle.</li> <li>4. To know the factors affecting pricing objectives.</li> <li>5. To understand the concept of advertising and how this effect buying habits of consumers.</li> <li>6. To understand how to promote sale.</li> </ol> <b>Skill Domain</b> <ol style="list-style-type: none"> <li>1. Students can identify how consumer behaves differently.</li> <li>2. Able to understand how a product passeded from different stages.</li> <li>3. Able to understand the difference between trademark and branding.</li> <li>4. Able to describe the customer segmentation, target marketing and positioning.</li> <li>5. Understand different methods of sale promotion.</li> </ol>
<b>B. Com. I</b> <b>3) Management Principals &amp; Application</b>	<b>Knowledge Domain-</b> <ol style="list-style-type: none"> <li>1. To develop the knowledge of business and management principles.</li> <li>2. To learn decision thinking and problem skills.</li> <li>3. To study effective Organization and Organization structure.</li> <li>4. To teach a sense of responsibility and a capacity for business management.</li> <li>5. To enable an awareness of the global environment in which business operate.</li> <li>6. To develop the knowledge of business and management principles.</li> <li>7. To learn critical thinking and problem skills.</li> <li>8. To study effective written and oral communication.</li> </ol>

	<p>9. To teach a sense of responsibility and a capacity for business management.</p> <p>10. To enable an awareness of the global environment in which business operate.</p> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Use business terms and concepts when communicating.</li> <li>2. Explain the financial concepts used in making business decision.</li> <li>3. Use effective communication skills to promote respect and relationship.</li> <li>4. Utilize information by applying a variety of business and industry software and hardware to major business function.</li> <li>5. Demonstrate a basic understanding of business management.</li> <li>6. Use business terms and concepts when communicating.</li> <li>7. Explain the financial concepts used in making business decision.</li> <li>8. Use effective communication skills to promote respect and relationship.</li> <li>9. Utilize information by applying a variety of business and industry software and hardware to major business function.</li> <li>10. Demonstrate a basic understanding of business management.</li> </ol>
<p><b>B. Com. I</b> <b>4) Insurance</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study understanding the concepts of insurance.</li> <li>2. To learn purpose and need of insurance.</li> <li>3. To learn insurance as a social security tool.</li> <li>4. To learn economic and commercial significance of insurance.</li> <li>5. To learn concept of insurance contract.</li> <li>6. To study the different types or kinds of insurance.</li> <li>7. To study the difference between insurance contract and wagering contract.</li> <li>8. To learn principles of insurance.</li> <li>9. To brief study of life insurance.</li> <li>10. To learn life insurance business in India.</li> <li>11. To brief study of fire insurance.</li> <li>12. . To brief study of marine insurance.</li> <li>13. . To brief study of accidental insurance.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. To save economic value of assets.</li> <li>2. To coverage against uncertainties.</li> <li>3. Use for satisfaction and comfort.</li> <li>4. To provision against unexpected early death or old age.</li> <li>5. To helpful in creating saving habit from regular income.</li> <li>6. To making provision for education and marriage of children.</li> <li>7. To helpful continuation of internal trade and external trade.</li> <li>8. To fall up essentials of insurance contract.</li> <li>9. To taking procedure of all insurance police and settlement of claims.</li> <li>10. To apply for job to insurance field.</li> <li>11. To insure our life or property.</li> </ol>

<p><b>B. Com. II</b> 1) <b>Fundamental Entrepreneurship</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"><li>1. Demonstrate the ability to apply knowledge of key leadership concepts in an integrated manner.</li><li>2. Demonstrate the ability to identify and evaluate business opportunities and trends.</li><li>3. Demonstrate the ability to identify potential start-up models and resources given trends and opportunities.</li><li>4. Demonstrate the ability to apply knowledge of key leadership concepts in an integrated manner.</li><li>5. Demonstrate the ability to identify and evaluate business opportunities and trends.</li><li>6. Demonstrate the ability to identify potential start-up models and resources given trends and opportunities.</li><li>7. Demonstrate the ability to apply knowledge of business concepts and functions in an integrated manner</li></ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"><li>1. Student will able to understand the basic development of entrepreneurship as a profession.</li><li>2. Student will have a basic knowledge of human resource management for small business.</li><li>3. Student will able to identify and implement systems for collecting and analyzing information to monitor the performance of a new firm</li><li>4. Student will able to understand the differences between an entrepreneurial venture and an ongoing business operation.</li><li>5. Student will able to understand the critical roles of marketing research, competitive analysis, consumer-value proposition, and market-entry strategy in the development of a business plan.</li></ol>
<p><b>B. Com. II</b> 2) <b>Corporate Accounting</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"><li>1. The main objective of this subject to provide the knowledge of companies, Shares and regulatory of companies.</li><li>2. This subject describes the pattern of final accounts of the company.</li><li>3. It provides the knowledge of issue of shares and issue of debentures etc.</li><li>4. It also provides the methods of valuation of goodwill and shares.</li><li>5. This subject also differentiate profit and loss prior period to incorporation and post incorporation.</li></ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"><li>1. Learn about the journal entries of issue of shares and issue of debentures.</li><li>2. To know about the meaning of companies and working style of companies.</li><li>3. Know about the final accounts of the companies.</li><li>4. Learn about the valuation method of shares and goodwill and measurement of performance of companies.</li></ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"> <li>5. Work with profit prior to incorporation and post incorporation profits in companies' accounts.</li> <li>6. Learn about the concept of sources of redemption of debentures and redemption of preference shares.</li> </ol>
<p><b>B. Com. II</b> 3) <b>Business Statistics</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. The main objective of this subject to provide the knowledge of statistical techniques applicable to business.</li> <li>2. To provide knowledge of statistical tools to commerce students.</li> <li>3. To understand basics of Statistics.</li> <li>4. To have a knowledge of the methodology of Statistical.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. A student will have a basic understanding of generally accepted statistical tools.</li> <li>2. Development of fundamentals of statistics.</li> <li>3. Independently solving of business problems.</li> <li>4. To provide access to overview of the field of statistical science</li> <li>5. It will equip the students with various skills of statistical tools and techniques.</li> <li>6. Use business statistics for central measurements, frequency distributions, graphs, and measure of dispersion and be able to select which method should be used for different problems.</li> </ol>
<p><b>B. Com. III</b> 1) <b>Advanced Accountancy -I</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. It provides the knowledge of preparation of financial statements of banks.</li> <li>2. To understand the basic concepts of cost accounting</li> <li>3. To understand the cost accounting procedure in respect of materials.</li> <li>4. Explain the accounting process on Tally with GST.</li> <li>5) To know the application of cost accounting in determination of labour cost.</li> <li>6) To identify the meaning of overheads and its classification</li> <li>7) To understand meaning of activity based costing and its practical application.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. To demonstrate accounting for farms and hire purchase system.</li> <li>2. To Simulate accounting situations of insurance claim</li> <li>3. To classify the cost and apply the same for cost determination.</li> <li>4. To understand different methods of absorption of overheads.</li> <li>5. To find out the reasons for difference between profit as per cost and financial accounts.</li> </ol>
<p><b>B. Com. III</b> 2) <b>Advanced accountancy -II</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To provide exposure to Commerce students about Auditing</li> <li>2. To create awareness about select laws concerning business activities.</li> <li>3. To provide basic Audit knowledge to commerce students.</li> <li>4. To understand basics of Auditing.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>5. To have a knowledge of the methodology of Auditing.</p> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. A student will have a basic understanding of generally accepted audit standards and assurances.</li> <li>2. Development of ethical standards of auditing.</li> <li>3. Independently solving of business problems.</li> <li>4. Will develop degree of professionalism required for successful auditor.</li> <li>5. It will equip with current accounting and auditing issues and regulations.</li> </ol>
<p><b>B. Com. III</b> <b>1)Advanced</b> <b>Accountancy -IV</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students will learn to define various types of indirect taxes like, excise duty, customs</li> <li>2. duty(import and export),production linked tax, and Value Added Tax (VAT)</li> <li>3. Students will acquaint with the sources of revenues of the government;</li> <li>4. Students will learn to analyze and evaluate the effect of an indirect tax on consumers, producers and the government.</li> <li>5. Student will learn to differentiate between CST and VAT.</li> <li>6. Students will learn definitions of: indirect tax.</li> <li>7. Discuss examples of goods/ services on which the government imposes indirect tax and reasons for that.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Student will able to Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.</li> <li>2. Student will able to Identify and analyze the procedural aspects under different applicable statutes related to indirect taxation.</li> <li>3. Student will able to Understand the basic principles underlying the Indirect Taxation Statutes (with reference to Central Excise Act, Customs Act, Service Tax, Value, Added Tax, Central Sales Tax).</li> <li>4. Student will able to understand Tax liability and taxable entities. Accounting treatment (simple and trilateral transactions) .</li> <li>5. Student will able to examine - The method of tax credit. Inflows and outflows. Outflows: tax imposition, tax exemption, tax deduction.</li> <li>6. Student will able to understand Inflows and outflows related to VAT. Imposition of tax and tax base. Delivery of goods and services. Tax rates. Periodic tax returns. Place of delivery of goods and services and its impact on VAT.</li> </ol>
<p><b>B. Com. III</b> <b>3) Modern</b> <b>Management</b> <b>Practice</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To develop the knowledge of business and modern management.</li> <li>2. To learn modern decision thinking and problem solving skills.</li> </ol>

	<ol style="list-style-type: none"> <li>3. To study modern effective Organization and Organization structure.</li> <li>4. To teach contribution to modern management practices.</li> <li>5. To enable an awareness of strategic management.</li> <li>6. To enable an Awareness of Emotional &amp; Social Intelligence in Management</li> <li>7. To learn organizational environment. .</li> <li>8. to developed customer relationship management.</li> <li>9. To study corporate governance and corporate social responsibilities.</li> <li>10. To teach a sense of responsibility of knowledge management and disaster management.</li> <li>11. To learn total quality management and quality standards in business.</li> <li>12. To Study of Lean &amp; Talent Management.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Use business terms and concepts when communicating.</li> <li>2. To Applying Quality Standards in Business or Life.</li> <li>3. To Basic understanding Japanese &amp; Chinese Management.</li> <li>4. To Applying Management by event and Performance.</li> <li>5. To Basic understanding Time &amp; Stress Management.</li> <li>6. To applying competitive advantage in business or life.</li> <li>7. To basic understanding core competence.</li> <li>8. To applying management by objectives in business or life.</li> <li>9. Use business terms and concepts when communicating.</li> <li>10. Utilize information by applying an external and internal environment in business.</li> <li>11. Use SWOT analysis in business or life.</li> </ol>
<p><b>B. Com. III</b> <b>4) Business Regulatory Framework</b></p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To provide exposure to Commerce students about the Business Regulatory frame work of India.</li> <li>2. To create awareness about select laws concerning business activities.</li> <li>3. To provide basic legal knowledge to commerce students.</li> <li>4. To provide the brief idea about the frame work of Indian Business Laws.</li> <li>5. To orient students, about the legal aspects of business.</li> <li>6. To familiarize the students with case law studies related to Business Laws of Semester III and IV.</li> <li>7. To acquaint students with the basic concepts, terms &amp; provisions of Mercantile and Business Laws.</li> <li>8. To develop the awareness among the students regarding these laws affecting business, trade and commerce.</li> <li>9. To acquaint the students with the legal framework influencing Business Operations</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Learn the difference between valid void and voidable contract.</li> </ol>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"><li>2. Memorize difference between contract of guarantee and indemnity.</li><li>3. Analysis the rights and duties of pawnor and pawnee under contract of bailment.</li><li>4. Learn how to pursue the consumer rights under consumer protection act 1982.</li></ol>
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**Department of Physics**

**A) U.G. Course / Programme (B.Sc.)**

<b>itle of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc. I Semester-I Paper- I Mechanics I</b>	<b>Knowledge Domain:</b>
	1.To know about concept of scalar and vector.
	2.To know the basic differential equation.
	3.To know the basics concept in statistical Physics.
	4.To acquire knowledge about conservation in rotational motion.
	5. To know about the idea of vector addition and subtraction.
	6. To know the meaning of vector product (dot and cross)
	<b>Skill Domain</b>
	1.To develop skill, to calculate Scalar Products.
	2. To develop skill, to calculate Vector Products.
	3. To develop skill, to solve ordinary differential equation.
4. To develop skill, to solve partial differential equation.	
<b>B.Sc. I Semester-I Paper - II Mechanics II</b>	<b>Knowledge Domain</b>
	1. To know the Newton’s law of motion.
	2. To know about S.T. by Jaeger’s method.
	3. To acquire knowledge about torsional oscillation, determination of Y, K, $\eta$
	4. To know about differential equation of SHM and its solutions.
	5.To know the concept of bending moment and cantilever.
	<b>Skill Domain</b>
	1 To develop skill, to solve differential equation of SHM & its solutions.
	2. To develop skill, to find bending moment.
	3. To develop skill, to calculate angle of contact.
	4. To develop skill, to find kinetic and potential energy.
<b>B.Sc. I Semester- II Paper - III Electricity and Magnetism – I</b>	<b>Knowledge Domain</b>
	1.To know the gradient, divergence, Curl and their significance.
	2. To know the Gauss-divergence theorem and Stoke's theorem of vectors (statement only).
	3.To know about the Electric potential as line integral of electric field.
	4. To know the Gauss's theorem of electrostatics.
	5. . To know the Capacitance of an isolated spherical conductor.
	<b>Skill Domain</b>
	1.To develop problem solving skill in student.
	2. To develop skill, to calculate the gradient of scalar field .
	3. To develop skill, to calculate the curl of vector field.
	4. To develop skill, to calculate energy per unit volume in electrostatic field.
<b>B.Sc. I Semester- II Paper - IV Electricity and Magnetism – II</b>	<b>Knowledge Domain</b>
	1.To know the basic concept of A.C. circuits.
	2. To know the Complex numbers and their application in solving a. c. series LCR circuit.
	3. To know the Biot-Savart's law & its applications.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	4. To know the Faraday's laws of electromagnetic induction, Lenz's law.
	5. To know the Maxwell's equations.
	<b>Skill Domain</b>
	1. To develop skill, to calculate Complex numbers
	2. To develop skill, to find divergence and curl of magnetic field.
	3. To develop skill, to find energy stored in magnetic field.
	4. To develop skill, to calculate equation of continuity of current.
<b>B.Sc. II Semester- III Paper - V Thermal Physics &amp; Statistical Mechanics – I</b>	<b>Knowledge Domain</b>
	1. To know the derivation of Maxwell's law of distribution of velocities
	2. To know the transport of momentum (viscosity), transport of thermal energy (conduction)
	3. To acquire knowledge about law of equipartition of energy.
	4. To know the idea about Zeroth Law of thermodynamics.
	5. To know the relation between CP & CV.
	6. To know the work done during isothermal and adiabatic processes, reversible & irreversible processes
	<b>Skill Domain</b>
	1. To develop the skill for handling various apparatus.
	2. To develop skill to calculate efficiency of Carnot's cycle.
	3. To develop skill to calculate the entropy of the system.
<b>B.Sc. II Semester- III Paper - VI Waves and Optics - I</b>	<b>Knowledge Domain</b>
	1. To know the Linearity and superposition principle.
	2. To know the Frequencies of coupled oscillatory systems.
	3. To know the Transverse waves on a string.
	4. To know the Piezo-electric effect.
	5. To know the idea about Acoustics of buildings.
	<b>Skill Domain</b>
	1. To develop skill to calculate energy of coupled oscillations.
	2. To develop skill to calculate Reverberation and time of reverberation.
	3. To develop skill to calculate rate flow of liquid in a capillary tube using Poiseuille's formula.
	4. To develop skill to calculate Group velocity and Phase velocity.
<b>B.Sc. II Semester- IV Paper - VII Thermal Physics &amp; Statistical Mechanics – II</b>	<b>Knowledge Domain</b>
	1. To know the basic concepts of Thermodynamic Potentials.
	2. To know the Maxwell's thermodynamical relations.
	3. To know the Blackbody radiation and its importance.
	4. To know the Maxwell-Boltzmann distribution law.
	5. To know the Bose-Einstein distribution law.
	6. To know the Fermi-Dirac distribution law.
	<b>Skill Domain</b>
	1. To develop skill, to derive Clausius- Clapeyron equation.
	2. To develop skill, to calculate TdS equations.
	3. To develop skill, to deduce Wien's distribution law.
<b>B.Sc. II Semester- IV Paper - VIII</b>	<b>Knowledge Domain</b>
	1. To know the Cardinal points of an optical system.
	2. To know the Resolving power of optical instruments.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<b>Waves and Optics - II</b>	3. To know the Principle of Superposition.
	4. To know the Newton's rings and its application for determination of wavelength and refractive index of light.
	5. To know the Fraunhofer diffraction- Elementary theory of plane diffraction grating.
	6. To know the Rayleigh's criterion for the limit of resolution.
	<b>Skill Domain</b>
	1. To develop skill, to calculate Newton's formula.
	2. To develop skill, to find Newton's ring.
	3. To develop skill, to obtain diffraction pattern.

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc. III Semester- V Paper-IX Mathematical Physics</b>	<b>Knowledge Domain- To enable the students</b>
	1.To know the Method of separation of variables for solving second order partial differential equations.
	2. To know the Form of two dimensional Laplace differential equation in Cartesian coordinates and its solution.
	3.To know the application of singularity to Legendre and Bessel differential equation.
	4.To know the Gamma function, Properties of Gamma function, Beta function, Properties of Beta function.
	5. To know the Addition, Subtraction, Multiplication and Division of complex number by geometry
	<b>Skill Domain</b>
	1.To develop problem solving skills in students
	2.To develop skills, to calculate Relation between Beta and Gamma functions.
	<b>B.Sc. III Semester-V Paper – X Quantum Mechanics</b>
1.To understand matter waves.	
2.To know the Schroedinger's wave equation.	
3.To understand the operators in Quantum mechanics.	
4.To know about the applications of Schroedinger equation.	
<b>Skill Domain</b>	
1.To develop skill to calculate Schroedinger's time dependent wave equation.	
2.to develop skill to calculate Schroedinger's time independent wave equation.	
<b>B.Sc. III Semester-V Paper-XI Classical Mechanics</b>	<b>Knowledge Domain To enable the students</b>
	1.To know the Lagrange's equation from D'Alembert's principle.
	2.To know the deduction of Hamilton's principle from D'Alembert's principle.
	3.To know the Michelson-Morley experiment.
	4.To know the idea about Crossed uniform electric field E and magnetic field B.
	<b>Skill Domain</b>
	1.To develop skill to find degrees of freedom.
2. To develop skill to calculate Hamilton's principle.	

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	3. To develop skill to calculate Mass-energy relation.
<b>B.Sc. III Semester-V Paper-XII Digital and Analog Circuits and Instrumentation</b>	<b>Knowledge Domain To enable the learners</b>
	1.To know the derived logic gates (NOR, NAND, XOR and XNOR gates).
	2.To know the Single stage transistor CE amplifier
	3.To know the block diagram of CRO, Principle, Construction and working of CRT
	4.To know the differential amplifier and its types.
	<b>Skill Domain</b>
	1.To develop skill, to calculate 4 bit parallel binary adder.
	2.To develop problem solving skill in students.
	3.To develop skill, to find Lissajous figures.
<b>B.Sc. III Semester-VI Paper-XIII Nuclear and Particle Physics</b>	<b>Knowledge Domain: To enable the students</b>
	1.To know the Semi empirical mass formula.
	2.To know the Cyclotron- construction and working.
	3.To know the Geiger Muller counter- construction, working and theory.
	4.To know the Classification of elementary particles.
	<b>Skill Domain:</b>
	1. To develop problem solving skill in students
	2. To develop skills, to calculate Baryon number, Lepton number.
<b>B.Sc. III Semester-VI Paper-XIV Solid State Physics</b>	<b>Knowledge Domain: To enable the students</b>
	1.To know the Crystal structure.
	2.To know about the X-Ray diffraction.
	3.To understand the magnetic properties of matter.
	4.To understand the elementary band theory of solids.
	<b>Skill Domain:</b>
	1.To develop skill to find Millar indices.
	2.To develop skill to find any crystal structure.
	3.To develop skill to obtain X-Ray diffraction pattern.
4.To develop skill to draw Hysteresis curve.	
<b>B.Sc. III Semester-VI Paper-XV Atomic and Molecular Physics and Astrophysics</b>	<b>Knowledge Domain: To enable the students</b>
	1. To know the Spectrum of sodium and its doublet fine structure.
	2. To know the Electronic spectra of diatomic molecules.
	3. To know the Raman Effect, Characteristic properties of Raman lines.
	4. To know the Big-Bang theory, Steady state theory, Oscillating theory, Hubble law.
	<b>Skill Domain:</b>
	1. To develop skill to calculate Lande's g factor.
	2. To develop skill to obtain spectral lines for various effects.
<b>B.Sc. III Semester-VI</b>	<b>Knowledge Domain: To enable the students</b>
	1. To know about the Energy and Wind Energy.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

Paper-XVI Energy Studies and Materials Science	2. To know the Solar energy spectrum (UV, Visible and IR).
	3. To know about the Biomass energy resources.
	4. To know about the Superconductivity and Nanotechnology.
	<b>Skill Domain:</b>
	1. To develop skill to obtain London equation and penetration depth
	2. To develop skill to calculate efficiency factor of wind turbine (P-H graph)

**Department of Chemistry**

**A) U.G. Course / Programme (B.Sc.)**

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.I Semester-I Paper- I Inorganic Chemistry</b>	<b>Knowledge Domain:</b>
	1.To know about the shape of s, p and d orbital
	2.To know the periodic properties of element.
	3.To know the energy in the ionic bond formation.
	4.To acquire knowledge about molecular orbital theory.
	5.To know the molecular orbital diagram for homonuclear diatomic molecule.
	<b>Skill Domain</b>
	1.To develop skill, to filling electrons in various orbitals by using Aufbau'principle, Hunds rule and pauli'exclusion principle
	2. To develop skill, to calculate lattice energy.
	3. To develop skill, to find the shape and geometry of the orbitals.
4. To develop skill, to calculate bond order of molecule.	
<b>B.Sc.I Semester-II Paper No. II Organic Chemistry</b>	<b>Knowledge Domain</b>
	1. To know the three diamentional structure and symmetry
	2. Learn different nomenclature system.
	3.to understand the nature , reactivity and catalytic action of aliphatic cyclic molecule.
	4.learn necessary physiological conditions regarding cyclic molecule.
	<b>Skill Domain</b>
	1 To develop skill, in reactivity of aromatic compound..
	2. To develop skill, to understand basic concept of organic reaction mechanism, intermediate and stability.
	3. To develop skill, to understand different nomenclature system.
	4. To develop skill, in differentiation aromatic and antiromatic compound.
<b>B.Sc.I Semester- II Paper No. III Physical chemistry</b>	<b>Knowledge Domain</b>
	1.To know the idea about natural process and artificial process.
	2. To know the work of engine.
	3.to acqure the knowledge about free energy change in chemical reaction.
	4. To know the difference between ideal and non ideal gases.
	5. . To know the rate of reaction and rate of reaction.
	<b>Skill Domain</b>
	1.To develop problem solving skill in student.
	2. To develop skill, to calculate the efficiency of heat engine.
	3. To develop skill, to find the rate of reaction.
4. To develop skill, to imagination of gases behavior.	

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.I Semester- II Paper-IV  Analytical Chemistry</b>	<b>Knowledge Domain</b>
	1. To acquire the basic Knowledge about structure , bonding, and preparation of hydrocarbons.
	2. Explaining theories of chemical bonding and molecular structure .
	3. To acquire fundamental knowledge Newtonian mechanism.
	4. To acquire the knowledge of basic idea of analysis.
	5. Illustrate the preparative methods of simple structure.
	<b>Skill Domain</b>
	1. To develop skill, for sampling about solid liquid and gases.
	2. To develop skill, to use of paper chromatography and loading sample on paper sheet.
	3. To develop skill, to calculate the PH of solution using the PH meter.
4. To develop skill, to find the hardness of water by any water sample.	

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.-.II Semester- III Paper- V Physical Chemistry</b>	<b>Knowledge Domain: To Enable the student .....</b>
	1. To know the type of conductors and their conductivity
	2. To know the idea about conductometric titration
	3. To know idea about physical and chemical adsorption
	4. To know the difference between adsorption and absorption
	<b>Skill Domain: To Enable the student .....</b>
	1. to develop skill to calculate the equivalent and molar conductivity
	2. to develop skill to calculate surface tension
	3. to develop skill for detection and measurement of nuclear radiation
	4. to develop skill to distinguish the type of nuclear radiation

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.-.II Semester- III Paper - VI Industrial Chemistry</b>	<b>Knowledge Domain</b>
	1. To know idea about a raw material for the chemical industry
	2. To know various separation methods in industrial chemistry
	3. To acquire knowledge about paper industry
	4. To know the idea about corrosion and electroplating
	5. To know the various chemical processes about size reduction and size enlargement
	<b>Skill Domain</b>
	1. To develop the skill for handling various distillation flask
	2. to develop skill to prevent metal corrosion
	3. To develop skill to calculate the normality, molarity, molality, etc of solution
<b>B.Sc.-.II Semester- IV Paper - VII Inorganic Chemistry</b>	<b>Knowledge Domain</b>
	1. To know the position of p-block elements in periodic table
	2. To know the various properties of d-block elements
	3. To know the various coordination compounds and their nomenclature
	4. To know the position of p&d-block elements in periodic table



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	5.To know the idea about theoretical principle involved in qualitative analysis
	<b>Skill Domain</b>
	1.to develop skill to calculate crystal field stabilization energy
	2.to develop skill to identify acidic and basic radicals
	3.to develop skill to take various radiacals sopt tests
	4.to develop skill to calculate cordiation number of metal complexes

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.-II Semester- IV Paper – VIII Organic Chemistry</b>	<b>Knowledge Domain</b>
	1.To know about 3-D study of molecule
	2.To know abut carbonyl compounds their nomenclature,structure and reaction mechanism
	3. To know in detail study of carbohydrates like glucose and fructose
	4.To know various carboxylic acids and their derivatives
	5.To know adea about classification ,nomenclature,structure of amines and diazonium salt
	<b>Skill Domain</b>
	1.to develop skill in preparation of derivatives of carboxylic acids
	2. to develop reaction mechanism solving skill in students
	3.to develop skill to understand 3-D structure of molecule
	4.to develop organic problem solving skill in students

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.III Semester- V Paper-IX Inorganic Chemistry</b>	<b>Knowledge Domain</b>
	1.To study of HSAB concepts and its applications
	2. To open new idea of superconducting material
	3.To study of alkyl and aryl compounds
	4.To to know nature of bonding simple metal carbonyl compounds
	<b>Skill Domain</b>
	1.to develop skill to count electrons in inorganic compounds
	2.to develop problem solving skill in students

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.III Semester- V Paper-XOrganic Chemistry</b>	<b>Knowledge Domain- To enable the students</b>
	1.To promote understanding of basic facts and concepts in spectroscopic techniques
	2. To inquire of new knowledge of chemistry and developments therein
	3.To makes students capable of studying analytical techniques in academic course
	4.To expose and to develop interests in the field of chemistry
	<b>Skill Domain</b>
1.to develop problem solving skills in students	

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	2.to develop skills required in chemistry such as the proper handling of apparatus,instruments,and chemicals
<b>B.Sc.III Semester-V PaperNo.XI Physical Chemistry</b>	<b>Knowledge Domain: To enable the students</b>
	1.To understand photochemical reactions
	2.To know the type of solutions
	3.To understand types of electrode and cells
	4.To know about applications of emf
	<b>Skill Domain</b>
	1.to develop skill to handling the various electrode
2.to develop skill to calculate energy of atom	
<b>B.Sc.III Semester-V PaperNo.XII Analytical Chemistry</b>	<b>Knowledge Domain To enable the students</b>
	1.To know the various acid base titrations
	2.To know the various physical nature of precipitation
	3.To know the idea about gravimetric analysis
	4.To know the idea about various chromatographic technique
	<b>Skill Domain</b>
	1.to develop skill to handling the potentiometer
2. .to develop skill to maintain optimum condition	
3. .to develop skill to handling spectrophotometer	
<b>B.Sc.III Semester-VI PaperNo.XIII Inorganic Chemistry</b>	<b>Knowledge Domain To enable the learners</b>
	1.To make awareness about inert and labile complexes
	2.To know electronic structure and synthesis of transuranic element
	3.To extention of coordination chemistry,explaining some facts about stability of complexes.
	4.To know mechanism and substitution in metal complexes,trans effects and its theories.
	<b>Skill Domain</b>
	1.to develop skill in electronic structure and synthesis of transuranic elements
2.to develop problem solving skill in students	
3.to develop skill in thermodynamic and chinetic aspects of metal complexes	
<b>B.Sc.III Semester-VI PaperNo.XIV Organic Chemistry</b>	<b>Knowledge Domain: To enable the students</b>
	1.To make students capable of studying chemistry in academic courses
	2.To expose the students to different processes used in industries
	3.To inquire the new knowledge of chemistry and development therein
	4.To promote understanding of basic facts and concepts in chemistry
	<b>Skill Domain:</b>
	1. to develop problem solving skill in students
2. to develop skills required in chemistry such as the proper handling of apparatus,instruments,and chemicals	
<b>B.Sc.III Semester-VI PaperNo.XV Physical Chemistry</b>	<b>Knowledge Domain:To enable the students</b>
	1.To know the laws of crystallograghy
	2.To know about adsorption isotherm
	3.To understand solid –liquid phase equilibrium
	4.To understand the use of functions of equilibria and spontaneity
<b>Skill Domain:</b>	

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	1.to develop the skill to find the phase equilibria of any compound
	2.to develop skill to find any crystal structure
	3.to develop skill to solve the problem based on thermodynamic first law
	4.to develop skill to find chain of radioactive elements

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.III Semester-VI PaperNo.XVI Industrial Chemistry</b>	<b>Knowledge Domain</b>
	1.To know understanding the whole process of manufacture of sugar.
	2.To know understanding and learning the classification synthesis and applications of various polymers
	3.To know understanding the petroleum industry fuel
	4.To know understanding of physicochemical principle of production of ammonia,sulphuric acid etc...
	<b>Skill Domain</b>
	1.to develop problem solving skill in students
	2.to develop skill required in chemistry such as the handling of apparatus, instrument and chemicals.
	3.to develop skill manufacture of ethyl alcohol from molasses by fermentation
	4.to develop skill to understand Hyber's,Ostwald's and solvey process

**Department of Mathematics**

**U.G. Course / Programme:**

<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>	
<b>B.Sc.Part-I Semester-I DSC – 5A 1.Differential Calculus &amp; 2.Calculus</b>	<b>Knowledge Domain</b>	
	1.to acquire the knowledge of the basic ideas of Hyperbolic Functions	
	2. to acquire the knowledge of High order derivatives	
	3. to understand the concept of Mean Value Theorems and Indeterminate Forms	
	4. to know the concept of Limits and Continuity of Real Valued Functions.	
	<b>Skill Domain</b>	
	1.to develop the skill of Hyperbolic Functions	
	2. to acquire the skill of High order derivatives	
	3. to develop the skill of Mean Value Theorems and Indeterminate Forms	
	4. to develop the skill of evaluation of Limits and Continuity of Real Valued Functions.	
<b>B. Sc. Part – I Semester – II DSC – 5B 3.DIFFERENTIAL EQUATIONS &amp; 4.PDE</b>	<b>Knowledge Domain</b>	
	1. to understand the concept of Differential Equations of First Order	
	2. to acquire the knowledge of solving Linear Differential Equations	
	3. to acquire the knowledge of Second Order Linear Differential Equations and Simultaneous Differential Equations.	
	4. to acquire the knowledge of Partial Differential Equations	
	<b>Skill Domain</b>	
	1.to develop the skill of identification of Differential Equations of First Order	
	2. to acquire the skill of solution of Linear Differential Equations	
	3. to develop the skill of finding solution Second Order Linear Differential Equations and Simultaneous Differential Equations.	
	4. to develop the skill of construction of Partial Differential Equations	
<b>B.Sc.Part-II Semester-III Real Analysis-I</b>	<b>Knowledge Domain</b>	
	1. to acquire the knowledge of the basic ideas of Function.	
	2. to acquire the knowledge of mathematical induction	
	3. to understand the concept of real analysis	
	4. to know the order properties of real numbers, completeness property.	
	5. to enable the process of Archimedean property.	
	<b>Skill Domain</b>	
	1.to develop the skills to identify function.	
	2. to acquire the skill of mathematical induction.	
	3. to develop the skill of real analysis	
	4. to develop the skill of evaluation of order properties of real numbers, completeness property.	
	5. to enable the skill of process of Archimedean property.	
	<b>2. Algebra-I</b>	<b>Knowledge Domain</b>
		1. to understand the concept of properties of matrices
		2. to acquire the knowledge of solving System of linear homogeneous equations and linear non-homogeneous equations.
3. to acquire the knowledge of finding Eigen values and Eigen vectors.		

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	4. to acquire the knowledge of construction of permutation group and relate it to other groups.
	5. to enable to classify the various types of groups and subgroups.
	<b>Skill Domain</b>
	1.to develop the skill of identification of properties of matrices
	2. to acquire the skill of solution of System of linear homogeneous equations and linear non-homogeneous equations.
	3. to develop the skill of finding Eigen values and Eigen vectors.
	4. to develop the skill of construction of permutation group and relate it to other groups.
	5. to enable the skill of classification of the various types of groups and subgroups.
<b>B.Sc.Part-II Semester-IV 3. Real Analysis – II</b>	<b>Knowledge Domain</b>
	1.. to acquire the knowledge of sequence and subsequence.
	2. to acquire the knowledge of Bolzano-Weierstrass Theorem.
	3. to understand the concept of Cauchy Convergence Criterion
	4. to acquire the knowledge of convergence of series
	5. to enable the knowledge of Leibnitz Test.
	<b>Skill Domain</b>
	1.to develop the skill of sequence and subsequence.
	2. to acquire the skill of Bolzano-Weierstrass Theorem.
	3. to develop the skill of Cauchy Convergence Criterion
	4. to develop the skill of finding convergence of series
	5. to enable the skill of .Leibnitz Test.
<b>4. Algebra-II</b>	<b>Knowledge Domain</b>
	1. to acquire the knowledge of Lagrange’s theorem.
	2. to acquire the knowledge of Fermat’s theorem
	3. to understand the properties of normal subgroups, factor group.
	4. to acquire the knowledge of homomorphism and isomorphism's in group and rings.
	5. to enable the knowledge of basic properties of rings and subrings
	<b>Skill Domain</b>
	1.to develop the skill of solving examples on Lagrange’s Theorem.
	2. to acquire the skill of solution of Fermat’s theorem
	3. to develop the skill of normal subgroups, factor group
	4. to develop the skill of homomorphism and isomorphism's in group and rings.
	5. to enable the skill of identification of basic properties of rings and subrings.
<b>Title of Course</b>	<b>Course Outcomes (Statements)</b>
<b>B.Sc.III Semester-V 1. Real Analysis</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of the basic ideas of Real Analysis.
	2. to acquire the knowledge of sequence of real numbers
	3. to understand the concept of series of real numbers
	4. to know the idea of Riemann Integration
	5. to enable the process of Improper Integrals
	<b>Skill Domain</b>

	1.to develop the skills to identify countable sets.
	2. to acquire the skill of convergence of the sequence of real numbers
	3. to develop the skill of convergence of series of real numbers
	4. to develop the skill of evaluation of Riemann Integration
	5. to enable the skill of process of Improper Integrals
<b>2.Modern Algebra</b>	<b>Knowledge Domain</b>
	1. to classify the various types of groups and subgroups.
	2. to acquire the knowledge of normal subgroup, homomorphism and permutation of group
	3. to understand the concept of ring
	4. to acquire the knowledge of homomorphism and imbedding ring
	5. to enable the properties of groups.
	<b>Skill Domain</b>
	1.to develop the skill of identification of group and subgroup.
	2. to acquire the skill of solution of permutation of groups.
	3. to develop the skill of homomorphism and imbedding ring
	4. to develop the skill of evaluation of the properties of groups.
	5. to enable the skill of identification of properties of normal subgroups.
<b>3.PDE</b>	<b>Knowledge Domain</b>
	1. to classify the various types of PDE.
	2. to acquire the knowledge of Linear and Nonlinear PDE
	3. to understand the concept of Homogeneous and Non homogeneous LPDE
	4. to acquire the knowledge of solution of PDE
	5. to enable the knowledge of properties of PDE
	<b>Skill Domain</b>
	1.to develop the skill of identification of PDE.
	2. to acquire the skill of solution of PDE.
	3. to develop the skill of various methods of solution of PDE
	4. to develop the skill of evaluation of complete solution of PDE.
	5. to enable the skill of identification of properties of PDE.
<b>4.Numerical Methods-I</b>	<b>Knowledge Domain</b>
	1. to acquire the knowledge of nonlinear equations.
	2. to acquire the knowledge of system of linear equations
	3. to understand the concept of eigen values and eigen vectors.
	4. to acquire the knowledge of methods of solution of nonlinear equations
	5. to enable the knowledge of methods of finding eigen values and eigen vectors.
	<b>Skill Domain</b>
	1.to develop the skill of solving nonlinear equations.
	2. to acquire the skill of solution of system of linear equations
	3. to develop the skill of various methods of solution of nonlinear equations
	4. to develop the skill of various methods of solving system of linear equations
	5. to enable the skill of identification of eigen values and eigen vectors.
<b>Semester-VI B.Sc.III</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of the basic ideas of Metric Spaces.

<b>5.Metric Spaces</b>	2. to acquire the knowledge of continuous functions on metric spaces
	3. to understand the concept of connectedness of metric spaces.
	4. to know the idea of completeness of metric spaces
	5. to enable the process of compactness of metric spaces
	<b>Skill Domain</b>
	1.to develop the skill to identify metric spaces.
	2. to acquire the skill of solving problems in metric spaces.
	3. to develop the skill of solving connectedness of metric spaces.
	4. to develop the skill of evaluation of completeness of metric spaces
	5. to enable the skill of process of compactness of metric spaces
	<b>6.Linear Algebra</b>
1.to acquire the knowledge of the basic ideas of Vector Spaces.	
2. to acquire the knowledge of Linear Transformation	
3. to understand the concept of Inner Product Spaces.	
4. to know the idea of Eigen Values and Eigen Vector	
5. to enable the process of linear algebra	
<b>Skill Domain</b>	
1.to develop the skill to identify vector spaces.	
2. to acquire the skill of solving problems in linear transformation.	
3. to develop the skill of solving inner product spaces.	
4. to develop the skill of evaluation of eigen values and eigen vectors	
5. to enable the skill of various methods in linear algebra.	
<b>7.Complex Analysis</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of the basic ideas of analytical functions.
	2. to acquire the knowledge of complex integration.
	3. to understand the concept of singularities and residues.
	4. to know the idea of entire meromorphic functions
	5. to enable the process of complex analysis.
	<b>Skill Domain</b>
	1.to develop the skill to identify analytical functions.
	2. to acquire the skill of solving problems in complex integration.
	3. to develop the skill of solving singularities and residues.
	4. to develop the skill of evaluation of entire meromorphic functions
5. to enable the skill of various methods in complex analysis.	
<b>8.Numerical Methods-II</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of the basic ideas of equal interpolation.
	2. to acquire the knowledge of unequal interpolation.
	3. to understand the concept of numerical differentiation & integration
	4. to know the idea of numerical solution of ODE.
	5. to enable the process of numerical methods.
	<b>Skill Domain</b>
	1.to develop the skill to identify equal interpolation examples
	2. to acquire the skill of solving problems in unequal interpolation..
	3. to develop the skill of solving numerical differentiation & integration.
	4. to develop the skill of evaluation of numerical solution of ODE.
5. to enable the skill of various methods in numerical methods.	



**Department of Botany**

**U.G. Course / Programme (B.Sc.) 2019-2020**

<b>Title of course</b>	<b>Course Outcomes (Statements)</b>
<p>Bachelor in Botany ( B.Sc.-I Botany) (CBCS)</p>	<p><b>DSC-13A: Biodiversity of Microbes, Algae and Fungi</b> <b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To impart knowledge of Science in the basic botany</li> <li>2. To develop scientific attitude and to think open mindedly, critical, Curious</li> <li>3.To understand different branches of botany including viruses, bacteria, algae, fungi</li> </ol> <p><b>DSC-14A: Biodiversity of Archegoniate, Bryophytes, Pteridophytes, Gymnosperms</b></p> <ol style="list-style-type: none"> <li>1. To study different systems of classification for the bryophytes, pteridophytes, gymnosperms types.</li> <li>2. To understand the peculiarities of every class along with its Morphology, Anatomy and types of Reproduction</li> </ol> <p><b>DSC-13 B- Plant Ecology</b></p> <ol style="list-style-type: none"> <li>1. The students are also expected to acquire knowledge about ecology.</li> <li>2. To understand various concepts of Ecosystems and Food Chain and Food Web.</li> <li>3. To prepare the ecological Data for the Scientific Studies.</li> <li>4. To apply this data in Ecological Studies.</li> <li>5. To develop scientific ability to working in the research and other fields to his/her own interest and make them it for society</li> </ol> <p><b>DSC-14 B- Plant Taxonomy</b></p> <ol style="list-style-type: none"> <li>1. To provide practical experience to the student as a part of course to develop scientific ability among the student and taxonomy as well as classification of angiosperms</li> <li>2. It is a part of education to introduce the student with various taxonomical terms ,identification, nomenclature, classification and binomial nomenclature</li> <li>3. To introduce the students about economical and medicinal uses of plants</li> </ol>
<p><b>Bachelor in Botany</b> <b>B.Sc.- II</b> <b>CBCS Botany</b> <b>Knowledge Domain</b></p>	<p><b>DSC – C13: Embryology of Angiosperms</b></p> <ol style="list-style-type: none"> <li>1. To create the interest of the society in the subject and scientific hobbies</li> <li>2. To prepare the student to be proficient in their spoken and written communication skills in English</li> <li>3. To understand scientific terms, concepts, facts, phenomenon and their relationship</li> <li>4. To understand various concepts in botany in relation with organization of flower, pollination, fertilization , embryo, endoperm development, poly-embryony and apomixes</li> </ol>



	<p><b>DSC – C14: Plant Physiology</b></p> <ol style="list-style-type: none"> <li>1. To develop rural youth with modern agricultural technologies</li> <li>2. To develop skilled manpower for different sectors</li> <li>3. To have practical hand on various branches of botany</li> <li>4. To make the students aware of natural resources and environment.</li> <li>5. To enable the students to understand processes of Photosynthesis and Respiration</li> <li>6. Growth Regulators and mineral nutrition</li> </ol>
<p><b>B.Sc.- II Botany CBCS</b></p>	<p><b>DSC – D13: Plant Anatomy</b></p> <ol style="list-style-type: none"> <li>1. To impart knowledge of Science is the basic objective of education.</li> <li>2. To develop scientific attitude is the major objective to make the Student’s open minded, critical, curious.</li> <li>3. To develop skill in practical work, experiments and laboratory materials and equipment along with the collection and interpretation of scientific data to contribute the science.</li> <li>4. To understand scientific terms, concepts, facts, phenomenon and their relationships.</li> <li>5. To make the students aware of natural resources and environment</li> <li>6. To understand organization of higher plant body, types of tissues in plants, primary and secondary structure of plant body etc.</li> </ol> <p><b>DSC – D14: Plant Metabolism</b></p> <ol style="list-style-type: none"> <li>1. To provide practical experience to the students as a part of the course</li> <li>2. To develop scientific ability to work in the field of research and other fields of their own interest and to make them fit for society.</li> <li>3. To The students are expected to acquire knowledge of plant and related subjects so as to understand natural phenomenon, manipulation of nature and environment in the benefit of human beings.</li> <li>4. To develop ability for the application of the acquired knowledge</li> <li>5. To improve agriculture and other related fields to make the country self-reliant and sufficient.</li> <li>6. To create the interest of the society in the subject and scientific hobbies, exhibitions and other similar activities.</li> <li>7. To study enzymes and their classification, factors affecting enzyme activity, nitrogen metabolism, respiration, seed dormancy and germination</li> </ol>
<p><b>Bachelor in Botany B.Sc.- III CBCS Botany</b></p>	<p><b>DSE-F 25 : Plant Biochemistry and Molecular Biology</b></p> <ol style="list-style-type: none"> <li>1. To understand various bio-molecules like carbohydrates, lipids, proteins and various forms of nucleic acids</li> <li>2. To impart knowledge of botany is the basic objective of the course</li> <li>3. To develop scientific attitude is the major objective to make the students open minded, critical, curious.</li> </ol>

	<ol style="list-style-type: none"><li>4. To develop skill in practical work, experiments and laboratory</li><li>5. materials and equipment along with the collection and interpretation of scientific data to contribute the science.</li><li>6. To have practical hand on various branches of botany</li><li>7. To understand scientific terms, concepts, facts, phenomenon and their relationships.</li></ol> <p><b>DSE-F 26: Bioinformatics, Biostatistics and Economic Botany</b></p> <ol style="list-style-type: none"><li>1. To make the students aware of natural resources and environment.</li><li>2. To provide practical experience to the students as a part of the course to develop scientific ability to work in the field of research and other fields of their own interest and to make them fit for society.</li><li>3. To understand various concepts in bioinformatics, biostatistics, economic botany in relation with cereals, legumes ,oils ,spices ,beverages and fibers</li></ol> <p><b>DSEF 27: Plant Biotechnology and Paleobotany</b></p> <ol style="list-style-type: none"><li>1. To The students are expected to acquire knowledge of plant and related subjects so as to understand natural phenomenon, Manipulation of nature and environment in the benefit of human beings.</li><li>2. To develop ability for the application of the acquired knowledge to improve agriculture and other related fields to make the country self reliant and sufficient.</li><li>3. To create the interest of the society in the subject and scientific hobbies, exhibitions and other similar activities</li><li>4. To understand various terms of plant biotechnology, recombinant DNA technology, plant tissue culture, paleobotany etc.</li></ol> <p><b>DSEF 28: Biofertilizers and herbal drug technology</b></p> <ol style="list-style-type: none"><li>1. To prepare the students to be proficient in their spoken and written communication skills in English</li><li>2. To understands scientific terms, concepts, facts, phenomenon and their relationship</li><li>3. To make the student aware natural resources and environment</li><li>4. To create interest of the society in general and students in particular in the subject and scientific hobbies like exhibition and other similar activities</li><li>5. To understand various fertilizers including biofertilizers and organic manure</li></ol> <p>To understand herbal drug technology in relation to herbal medicine, cosmetology , pharmacognosy</p>
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**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

**Department of Zoology**

**U.G. Course / Programme (B.Sc.) 2019-2020**

Title of Course B.Sc.	Course Outcomes (Statements)
B.SC.I PAPER I (ANIMAL DIVERSITY –I)	Course outcome (Statement) <b>Knowledge Domain:</b> 1. To introduce student to knowledge about animals. 2. To develop awareness 9-1 conservation in animal diversity.
	<b>Skill Domain:</b> 1. To awareness students study of animals in groups. 2. To study habit, habitat & conservation strategies of animals.
B.SC.I PAPER II (ANIMAL PHYSIOLOGY-I)	<b>Knowledge Domain :</b> 1. To introduce the students Knowledge about psychological functions of animal. 2. To develop awareness structure function relation in body of animals.
	<b>Skill Domain:</b> 1. To captain roll of organs systems of control mechanism in animal body. 2. To introduce bosoms structure a their proper functioning mechanism.
B.SC.I PAPER III (Cell Biology & Evolutionary Biology –I)	<b>Knowledge Domain:</b> 1. To Devers’s & understanding structural functions of cells. 2. Tackling ten difficulties in learning evaluation of introduce Environmental studies.
	<b>Skill Domain:</b> 1. To captain roll of a understanding cellular components wade to the carry all functionary. 2. To introduce research methodology & as an assessment programmer special techniques of evolution.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20

<p>B.SC.I PAPER IV (GENETICS)</p>	<p><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>To introduce students facts about genetics in human.</li> <li>To awareness about dysfunction (mutation) a</li> </ol> <p><b>Skill Domain:</b> It explains how characters from one generation to next generation are transfer in organisms.</p> <ol style="list-style-type: none"> <li>It gives idea of characters are under control of genes as well as environmental factor.</li> </ol> <p>It explains how diseases can transfer from parent to offspring</p> <ol style="list-style-type: none"> <li>Variety can be apply acquired subject knowledge to enhance, nutrition, agriculture and live stock.</li> <li>To develop ability for scientific work and capacity to pursue studies for beyond graduation.</li> <li>To develop suitable queries among students for to make society the best Skill Domain: Hybrid, high yielding animal and plant species can be produce by studying genetics</li> </ol> <ol style="list-style-type: none"> <li>To captain roll of a understanding cellular components wade to the carry all functionary.</li> <li>To introduce research methodology &amp; as an assessment programmer special techniques of evolution.</li> </ol>
<p>B. SC II V: ANIMAL DIVERSITY- II</p>	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>To introduce the students to knowledge about animals characters.</li> <li>To develop awareness about conservation of snakes.</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>To awareness students study of animals in groups.</li> <li>Study habit, habitat and conservation, types of snakes with general characters.</li> </ol>
<p>VI BIOCHEMISTRY</p>	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>To introduce the students knowledge about metabolism and heredity material.</li> <li>To developed and understand mechanism action and role of enzyme kinetics .</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>Explain mechanism of biomolecules including amino acids, enzymes and metabolic pathways in human body.</li> <li>Awareness about different enzymes performing may of functions associated with life.</li> </ol>
<p>Paper-VII REPRODUCTIVE BIOLOGY</p>	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>To develop awareness the students reproductive health biology.</li> <li>Outline of reproductive system male and female anatomy and histology.</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>explain and understand both sexual and asexual reproduction in rat and human</li> <li>To introduce structural and functional changes I reproductive cycles.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

VIII-APPLIED ZOOLOGY- I	<p>Knowledge domain</p> <ol style="list-style-type: none"> <li>1.To introduce the study of animal relationship, habit and habitat.</li> <li>2.To develop and management of economics important insects.</li> </ol> <p>Skill domain</p> <ol style="list-style-type: none"> <li>1.Explaining different host parasite relations and their behavioral activities as well as epidemic diseases.</li> <li>2.To develop and understand different beneficial, economic skills using insects and animals.</li> </ol>
<b>B. SC III</b> PAPER - IX Comparative Anatomy of Vertebrates	<p>Knowledge domain: Students understand basic plan of animal development, Student gets knowledge about anatomical features of the body, its basic plan of development.</p> <p>Skill domain: Develops skill of handling of animal, culturing, rearing, find out of usefulness animals,</p>
PAPER- X Molecular Cell Biology and Animal Bio-technology	<p>Knowledge domain: Student understood basic principles of living things, fundamentals biochemical reactions which support life.</p> <p>Skill domain: student develops skill to handle cell and tissues. It gives knowledge of proper functioning of body organs and it systems.</p> <p>It gives idea of proper maintenance of body organs and organ systems.</p> <p>It gives knowledge about various diseases related to human being, its affect on the body and way of transmission, it also gives idea about, physiological disorders of the body</p>
PAPER –XI Bio-techniques and Bio-statistics	<p>Knowledge domain : Students understood basic principles of leaving processes and how to use organism for human betterment.</p> <p>Skill domain : Student develop skill to handle various organisms to obtain desire results and product.</p>
PAPER – XII Aquatic Biology	<p>Knowledge domain: student understood basic principles of aquatic ecosystems and its environmental balance.</p> <p>Skill domain: Student develop to handle aquatic organism and they learn to balance aquatic bodies and control the pollutions.</p>
PAPER- XIII DEVELOPMENTAL BIOLOGY	<p>Knowledge domain: Students understand process of Gametogenesis, process of fertilization in animals and whole development of Chick embryo also receive knowledge regarding function of Organizer, Placenta, and foetal membrane during embryo development.</p> <p>Skill domain: student develops skill to expose chike embryo. It gives knowledge regarding proper development body organs and its functioning.</p> <p>Student gets proper knowledge regarding embryo culture and permanent slide preparation.</p>
PAPER- XIV Immunology	<p>Knowledge domain: Students understood the principles of body defense system and mechanism of Antigen, Anti body production and Pathogenicity of micro organisms.</p> <p>Skill domain: student develops skill handle cell culture, pathogens.</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

Paper XV Applied Zoology	<b>Knowledge Domain :</b> To introduce the students' Knowledge about the api culture animal husbandry pearl culture, Prawn culture and fishery science. <b>Skill Domain:</b> Student handle bees, bivalves, fish etc. for culturing.
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**POST-GRADUATE COURSES / PROGRAMS**

**Department of Marathi  
(M.A.-Marathi)**

<b>Title of Course</b>	<b>Course Outcomes ( Statements)</b>
M. A. I Paper I & V	Knowledge Based १ भाषिक आविष्काराचे स्वरूप समजून देणे. २. भाषेची सर्जनशील प्रक्रिया समजून घेणे ३. भाषा आणि साहित्य यांचा संबंध समजून घेणे ४. भाषा आणि साहित्यप्रकार यातील अनुबंध समजून घेणे. Skill based १. विद्यार्थ्यांना भाषिक आविष्काराचे रूप समजण्यास मदत होईल. २. भाषा आणि साहित्य याचा संबंध समजेल. ३. भाषा आणि साहित्यप्रकार यातील अनुबंध समजण्यास मदत होईल.
Paper 2.1 & 6.1	Knowledge based १. लेखक अभ्यासपदधतीचा उपयोग कसा करावा हे समजून घेणे. २. लेखकाचे वाग्मयीन व्यक्तिमत्व व लेखक यांचा समकाल समजावून देणे, ३. साहित्यकृतीतून लेखकाच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याचा अभ्यास करणे. ४. लेखकाच्या इतर साहित्यकृती विचारात घेऊन लेखकाच्या वाग्मयीन जडणघडणीचा विचार करणे. Skill based १ विद्यार्थ्यांना लेखक अभ्यासपदधतीचा उपयोग कसा करावा हे समजेल. २. लेखकाच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याची कल्पना येईल. ३ लेखकाची वाग्मयीन जडणघडण समजण्यास मदत होईल.
Paper 3 & 4	Knowledge based १. स्वातंत्र्यपूर्व काळातील सामाजिक, राजकीय, सांस्कृतिक जीवनाची पार्श्वभूमी समजून २. विविध वाग्मयप्रवाहांचे वेगळेपण व वैशिष्ट्ये समजावून देणे. ३. साहित्यप्रवाहांचा इतिहास अभ्यासणे. ४. स्वातंत्र्योत्तर काळातील साहित्यप्रवाह अभ्यासणे. Skill based १. विद्यार्थ्यांना स्वातंत्र्यपूर्व काळातील सामाजिक, राजकीय, सांस्कृतिक जीवनाची पार्श्वभूमी समजेल. २. साहित्यप्रवाहाचा इतिहास अभ्यासणास मदत होईल. ३ विविध साहित्यप्रवाहाचे असलेले वेगळेपण समजण्यास मदत होईल.
Paper 4.2 & 8.2	Knowledge based १. लोकसाहित्य व लोकसंस्कृती यातील परस्पर संबंध तपासणे. २. लोकसाहित्याची संकल्पना समजून घेणे. ३. लोकसाहित्याच्या परंपरेची ओळख करून देणे. ४. लोकसाहित्याचा उगम व व्याप्ती यासंबंधी माहिती देणे. Skill based

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>१. विद्यार्थ्यांना लोकसाहित्याच्या परंपरा व संकल्पना यांची ओळख होईल.</p> <p>२. लोकसाहित्याचा उगम व व्याप्ती यासंबंधी माहिती मिळण्यास मदत होईल. ३. लोकसाहित्य व लोकसंस्कृती यातील परस्पर संबंध लक्षात येईल.</p>
<p>M. A. II Paper 9 &amp; 13</p>	<p>Knowledge based</p> <p>१. समाजभाषाविज्ञानाचे स्वरूप समजून देणे.</p> <p>२. समाजभाषाविज्ञानातील विविध सिध्दात संकल्पनांचा परिचय करून घेणे.</p> <p>३. समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजून घेणे.</p> <p>४. समाजभाषाविज्ञानाची व्याप्ती समजून घेणे.</p> <p>Skill Domain based</p> <p>१. विद्यार्थ्यांना समाजभाषाविज्ञानाचे स्वरूप कळेल.</p> <p>२. समाजभाषाविज्ञानातील विविध सिध्दांत, संकल्पनांचा परिचय होईल.</p> <p>३. समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजेल.</p> <p>४. समाजभाषाविज्ञानाची व्याप्ती समजण्यास मदत होईल.</p>
<p>Paper 10.1 &amp; 14.1</p>	<p>Knowledge based</p> <p>१. वाडमय संस्कृती ही संकल्पना समजून घेणे</p> <p>२. समाज आणि संस्कृती यातील अनुबंध लक्षात घेणे.</p> <p>३. मौखिक आणि लिखित परंपरेत वाडमयीन परंपरेला संघटित करणाऱ्या घटकांचा विचार करणे.</p> <p>४. वाडमयीन संस्कृतीचे स्वरूप तपासणे.</p> <p>Skill Domain based</p> <p>१. विद्यार्थ्यांना वाडमय संस्कृती ही संकल्पना समजेल.</p> <p>२. समाज आणि संस्कृती यातील अनुबंध लक्षात येईल.</p> <p>३. मौखिक आणि लिखित परंपरेत वाडमयीन परंपरा कळण्यास मदत होईल.</p> <p>४. वाडमयीन संस्कृतीचे स्वरूप कळेल.</p>
<p>Paper 11 &amp; 15</p>	<p>Knowledge based</p> <p>१. समीक्षा तंत्राचा परिचय करून घेणे.</p> <p>२. समीक्षा पद्धतींचा परिचय करून घेणे.</p> <p>३. साहित्य आणि समीक्षा यांचा अनुबंध पाहणे.</p> <p>४. प्राचीन ते आधुनिक समीक्षा ग्रंथातून सामिक्षविषयक विचारांचा आढावा घेणे.</p> <p>Skill Domain based</p> <p>१. विद्यार्थ्यांना पाश्चात्य आणि पौरात्य समीक्षापद्धतींची ओळख होईल.</p> <p>२. तत्वज्ञान आणि चळवळी विचारांचा साहित्यकृतीवरील प्रभाव लक्षात येईल.</p> <p>३. विविध समीक्षा पद्धतीनुसार साहित्यकृतीची मीमांसा करेल.</p> <p>४. पाश्चात्य आणि पौरात्य सामोक्षांच्या वाटचालीचा आणि दृष्टीकोनाचा परिचय होईल.</p>
<p>Paper 12.1 &amp; 16.1</p>	<p>Knowledge based</p> <p>१. संस्कृती या ज्ञानशाखेचा परिचय करून घेणे.</p> <p>२. बदलत्या सामाजिक आणि राजकीय संदर्भात साहित्य संस्कृती यांच्या संबंधाचा अभ्यास करणे.</p> <p>३. आंतरविद्याशाखीय अभ्यास पद्धतीची ओळख करून घेणे.</p> <p>४. साहित्य आणि इतर अभिव्यक्तीरूपांच्यापरस्परसंबंधाचा संस्कृती अभ्यासावरील प्रभाव अभ्यासणे.</p> <p>Skill Domain based</p>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>१ विद्यार्थ्यांना संस्कृती या ज्ञानशाखेचा परिचय होईल.</p> <p>२ बदलत्या सामाजिक आणि राजकीय संदर्भात साहित्य संस्कृती यांच्या संबंध कळतील.</p> <p>३. आंतरविद्याशाखीय अभ्यास पध्दतीची ओळख होईल.</p> <p>४. साहित्य आणि इतर अभिव्यक्तीरूपांच्या परस्परसंबंधाचा संस्कृती अभ्यासावरील प्रभाव तपासता येईल.</p>
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**Department of History**

**(M.A.-History)**

<b>Title of course</b>	<b>Course Outcomes (Statements)</b>
M.A. Part I (Sem. I) Early India (from the beginning to 3rd Century B.C)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Study of evolution of humankind from Paleolithic to Neolithic period of ancient India.</li> <li>2. To understand the Harappa Civilization: Spread and Town-planning.</li> <li>3. To understand the Vedic Culture</li> <li>4. To study the Second urbanization .</li> <li>5. To understand the philosophy of Jainism and Buddhism.</li> <li>6. To study the Mauryan Emperors and his Administration.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The student should be able to explain the philosophy of Jainism and Buddhism.</li> <li>2. Ability to explain the deference between Early Vedic Culture and Later Vedic Culture</li> <li>3. The student should be able to explain the Town-planning of Harappa Civilization.</li> <li>4. Acquire skill evolution of humankind from Paleolithic to Neolithic period of ancient India.</li> </ol>
M.A. Part I (Sem. I) Aspects of Medieval Indian History (1206-1750)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study sources of Medieval Indian History.</li> <li>2. Understand theory of Kingship of Sultans and Mughals.</li> <li>3. To study of Art and Architecture of Medieval India.</li> <li>4. To study Internal and External trade of Medieval India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To analysis sources of Medieval Indian History</li> <li>2. Student able to explain theory of Kingship of Sultans and Mughals.</li> <li>3. Ability to explain Art and Architecture of Medieval India.</li> </ol>
M.A. Part I (Sem. I) Rise of Nationalism in India (1858-1905)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study concept, Causes and Growth of Nationalism.</li> <li>2. Understand Role of the INC in Freedom movement.</li> <li>3. To study Significance and Evaluation Work of Moderates.</li> <li>4. To study Significance and Evaluation Work of Extremism.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Analysis the concept, Causes and Growth of Nationalism.</li> <li>2. Student able to explain Role of the INC in Freedom movement.</li> <li>3. Student able to explain work of Moderates and Extremism.</li> </ol>
M.A. Part I (Sem. I) Making of 19th Century Maharashtra	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study Social and Economic condition in early 19<sup>th</sup> century Maharashtra.</li> <li>2. To study British policy and administrative changes in Maharashtra.</li> <li>3. Understand the role of Christian missionaries in Social reform.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>4. To study role of Narayan Meghaji Lokhande in Working class movement.</p> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explain Social and Economic condition in early 19<sup>th</sup> century Maharashtra.</li> <li>2. Analysis the British policy and administrative changes in Maharashtra.</li> <li>3. Ability to explain the contribution and role of Christian missionaries in Social reform.</li> <li>4. Ability to explain the contribution and role of Narayan Meghaji Lokhande in Working class movement.</li> </ol>
M.A. Part I (Sem. II) Institutions under the Marathas	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study the aim and objective of Swarajya.</li> <li>2. Understand the theory and practice of kingship of Marathas.</li> <li>3. To study administration of Maratha Emperor.</li> <li>4. To study Social and Religions condition under Maratha period.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain the aim and objective of Swarajya.</li> <li>2. Analysis the theory and practice of kingship of Marathas.</li> <li>3. Acquiver skill of Administration.</li> </ol>
M.A. Part I (Sem. II) National Movement in India (1905-1947)	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study concept of Nationalism.</li> <li>2. To study the various movement for freedom.</li> <li>3. Approaches to the study of Nationalism.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi</li> <li>2. Explain the contribution of Revolutionaries, Left Movement and Indian National Army</li> <li>3. Acquaint students with fundamental aspects of Modern Indian History.</li> </ol>
M.A. Part I (Sem. II) Art and Architecture of Ancient India	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study the concept, nature and scope of art and architecture.</li> <li>2. To study art and architecture of Ancient India.</li> <li>3. To study the sculpture and painting of Ajintha and Ellora.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explain the concept, nature and scope of art and architecture.</li> <li>2. Ability to explain the significance of art and architecture of Ancient India.</li> <li>3. Ability to explain the Importance of the sculpture and painting of Ajintha and Ellora.</li> </ol>
M.A. Part I (Sem. II) Social Reform Movements in 19th Century India	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study background of social reform movements in 19 the century India.</li> <li>2. To study the Method of reform and Features, limitations of social reform movement.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>3. To study the Role and contribution of reformers to Social reform movement.</p> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Student able to explain the background of social reform movements in 19 the century India.</li> <li>2. Understand the Method of reform and Features, limitations of social reform movement.</li> <li>3. Student able to explain the Role and contribution of reformers to Social reform movement.</li> </ol>
<p>M.A. Part II (Sem.III) Traditions of History Writing</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. The course will acquaint students to the salient features of the tradition of history writing during the ancient, medieval and modern periods.</li> <li>2. learn about the deep and sophisticated consciousness of history embedded in the various traditions of history writing in India</li> <li>3. To study Tradition of ‘History from Below’ in India.</li> <li>4. To study Modern European Traditions of history writing.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students able to explain the salient features of the tradition of history writing during the ancient, medieval and modern periods.</li> <li>2. Ability to explain Tradition of ‘History from Below’ in India.</li> <li>3. Ability to explain Modern European Traditions of history writing.</li> </ol>
<p>M.A. Part II (Sem.III) Twentieth Century World (1900 to 1950 )</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students understand how the world evolved in the first half of the twentieth century.</li> <li>2. It introduces the students to major concepts, ideas and events which created the modern world.</li> <li>3. To understand Legacy of Nineteenth Century</li> <li>4. To understand Nature and Effects World War I and II.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. The students know to major concepts, ideas and events which created the modern world so that they will be able to place historical events in a larger context.</li> <li>2. Ability to explain to the Legacy of Nineteenth Century.</li> <li>3. To analysis the Nature and Effects World War I and II.</li> <li>4. Ability to explain the Communist Revolution in China and its Impact on World Politics.</li> </ol>
<p>M.A. Part II (Sem.III) Forts of Maharashtra</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. This course is designed to teach students to look at the forts from multiple viewpoints- as sources of history, as centres of control, as sites of historical events, and as heritage sites.</li> <li>2. To understand the Types of Forts.</li> <li>3. To understand the Significance of Forts.</li> <li>4. To understand Historical Events and Forts.</li> <li>5. To study Preservation, Conservation and Restoration of Fort.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explain the Types of Forts.</li> <li>2. Student able to explain the Significance of Forts.</li> <li>3. To analysis the Historical Events and Forts.</li> <li>4. Ability to Preservation, Conservation and Restoration of Fort.</li> </ol>
<p>M.A. Part II (Sem.III) Economic History of 19th Century India</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Developed to help the students understand the impact of colonial rule on the Indian Economy.</li> <li>2. To understand the structural changes initiated by colonial rule in the Indian economy.</li> <li>3. It will help students understand the impact of colonial rule in context of the country's economic history.</li> <li>4. To understand the economic exploitation and colonial domination in India in 19<sup>th</sup> century.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Students able to explain the impact of colonial rule on the Indian Economy.</li> <li>2. To analysis the structural changes initiated by colonial rule in the Indian economy.</li> <li>3. Students able to explain the impact of colonial rule in context of the country's economic history.</li> <li>4. Ability to explain the economic exploitation and colonial domination in India in 19<sup>th</sup> century.</li> </ol>
<p>M.A. Part II (Sem. IV) Recent Trends in History Writing</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. This course explores the changing concept of history adopted by historians.</li> <li>2. The course will acquaint the students with new approaches and advanced historical theory and techniques.</li> <li>3. The students will be exposed to new types of historical sources and recent trends in history</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. Ability to explores the changing concept of history adopted by historians.</li> <li>2. To acquaint the students with new approaches and advanced historical theory and techniques.</li> <li>3. Ability to exposed to new types of historical sources and recent trends in history</li> </ol>
<p>M.A. Part II (Sem. IV) Twentieth Century World (1950 to 2000 )</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To understand the students with the political, social, economic and technological transformation that took place in the latter half of twentieth century.</li> <li>2. It will familiarize them with events and issues of conflict, peace, resistance, struggle and progress in the context of world history.</li> <li>3. To study Cold War and its consequences.</li> <li>4. To understand the various Movements for Social Justice.</li> </ol> <p><b>Skill Domain-</b></p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"> <li>1. To acquaint the students with the political, social, economic and technological transformation that took place in the latter half of twentieth century.</li> <li>2. Ability to explain the events and issues of conflict, peace, resistance, struggle and progress in the context of world history.</li> <li>3. To analysis the Cold War and its consequences.</li> <li>4. To analysis the various Movements for Social Justice.</li> </ol>
<p>M.A. Part II (Sem. IV) Dalit Movement in Colonial India</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To assist students in understanding the history of Dalit movement.</li> <li>2. To understand the policy followed by the British towards the depressed classes.</li> <li>3. To understand the salient features of the struggle against untouchability and caste system initiated by social reformers like Maharshi V.R. Shinde, Dr. Babasaheb Ambedkar and Mahatma Gandhi.</li> <li>4. To understand the Emergence of Dalit Consciousness.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To analysis the history of Dalit movement.</li> <li>2. To analysis and bale to explain the policy followed by the British towards the depressed classes.</li> <li>3. Ability to explain the salient features of the struggle against untouchability and caste system initiated by social reformers like Maharshi V.R. Shinde, Dr. Babasaheb Ambedkar and Mahatma Gandhi.</li> <li>4. Ability to explain the Emergence of Dalit Consciousness.</li> </ol>
<p>M.A. Part II (Sem. IV) Princely State of Kolhapur: Glimpses of Cultural History</p>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. Introduced to acquaint the students with the broad developments in the cultural history of the princely state of Kolhapur.</li> <li>2. To study Patronage to Culture and Arts.</li> <li>3. To understand the growth of Marathi Cinema, Marathi literature, Fine arts and indigenous Sports transformed the cultural landscape of the princely state.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with the broad developments in the cultural history of the princely state of Kolhapur.</li> <li>2. Ability to explain the Patronage to Culture and Arts.</li> <li>3. Ability to explain the growth of Marathi Cinema, Marathi literature, Fine arts and indigenous Sports transformed the cultural landscape of the princely state.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

**Department of Economics**

**(M.A. - Economics)**

<b>Title of course</b>	<b>Course Outcomes (Statement)</b>
CBCS M.A.I, Sem. I, (Micro Economics )	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To enable students to understand and analyses the theory of consumer behaviours, the theory of Production and theory of cost.</li> <li>2. To prepare students for further courses/units in Economics which require knowledge of Micro Economics.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To enable them to take up case studies for application of prescribed theories.</li> <li>2. To introduce students price and output determination under various type of markets.</li> </ol>
CBCS M.A.I, Sem. I, (Monetary Economics )	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To understand the different aspect of money supply.</li> <li>2. To study the various approaches to demand of the money.</li> <li>3. To study the concept of money multiplier and working of various theories of Interest rates.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. To recognize how monetary and fiscal policy can be used to achieve policy goals.</li> </ol>
<b>CBCS M.A.-I, Sem.- I</b> <b>Agricultural</b> <b>Economics</b> EO- 2 (Elective / Optional Paper- )	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. The objective of this course is to provide a detailed treatment of issues in agricultural economics to those intending to specialize in this area.</li> <li>2. The trade and business practices through international trade and other relevant concepts.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1 It intends to familiarize students to analyze the issues related with agricultural and economic development.</li> <li>2. It intends to familiarize students to analyze the issues related with agricultural production function, agricultural demand and supply, farm management and agricultural risk management.</li> </ol>
CBCS M.A.I, Sem. I, (Principles and Practice of Cooperation	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. To study principles and role of cooperation in modern era.</li> <li>2. To highlights structure of cooperatives, different types of credit and non-credit cooperatives.</li> <li>3. To study various cooperative institution operating at the national level.</li> <li>4. To review progress and problems of sugar and dairy cooperative in India.</li> </ol> <p><b>Skill Domain-</b></p> <ol style="list-style-type: none"> <li>1. How to manage the cooperative institution and operating at the operational area.</li> </ol>
<b>CBCS M.A.-I, Sem.- II</b>	<p><b>Knowledge Domain-</b></p> <ol style="list-style-type: none"> <li>1. The paper analyses the development of Indian agriculture after the independence.</li> </ol>



**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p><b>Agricultural Development in India</b> EO-11(Elective / Optional Paper- )</p>	<p>2. The efforts made by the Government in the five year plans are included in this course. 3. The role of technology, bio-technology, trade, agricultural marketing and price policy has to be studied with reference to Indian economy.. <b>Skill Domain-</b> 1.The input services such as agricultural credit, irrigation, and changing crop pattern like organic and contract farming are included in the present syllabus</p>
<p>CBCS M.A.I, Sem. II, (Public Finance )</p>	<p><b>Knowledge Domain-</b> 1. To explain the rate of government in Economy. 2. To study the concepts of public goods, Private goods, and merit goods. 3. To develop an understanding of public Finance. To understand the theory of public choice and public expenditure. <b>Skill Domain-</b> 1. To study how to working of government bodies and budgetary management.</p>
<p>CBCS M.A.I, Sem. II, (Financial Market and Institutions )</p>	<p><b>Knowledge Domain-</b> 1. The positive and significant role of financial institutions in the process of growth and development has been very well recognized in the literature. 2. India is no exception and has taken far reaching measures since 1991 in this direction. <b>Skill Domain-</b> 1. It is, therefore, essential that the students of economics should be well conversant with the theory and practice of different financial institutions and markets. 2. To understand and analyse the interconnection between the monetary forces and real forces, their developmental role and limitations in shaping and influencing the monetary and related.</p>
<p>CBCS M.A.II, Sem. III, Statistics in Economic Analysis, EC- 05 (Compulsory paper)</p>	<p><b>Knowledge Domain-</b> 1. The main objective of this paper is to train the students to use the techniques of statistical analysis, which are commonly applied to understand and analyze economic problems. 2. The emphasis of this paper is on understanding economics with the help of quantitative techniques. <b>Skill Domain-</b> 1. Hence, in this paper a student will be initiated into various economic concepts, which are amenable to mathematical treatment.</p>
<p>CBCS M.A.II, Sem. III, Macro Economic Analysis, EC- 06 (Compulsory paper)</p>	<p><b>Knowledge Domain-</b> 1. Macroeconomics or aggregative economics analyses establishes the functional relationship between the large aggregates.</p>



	<p>2. The aggregate analysis has assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for the proper comprehension of the different issues and policies.</p> <p><b>Skill Domain-</b></p> <p>1. Macroeconomics now is not only a scientific method of analysis; but also a body of empirical economic knowledge.</p> <p>2. The paper entitled "Macro Economic Analysis" equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.</p>
<p><b>CBCS M.A.II, Sem. III, ECONOMICS OF LABOUR</b> <b>EO- 21 (Elective paper)</b></p>	<p><b>Knowledge Domain-</b></p> <p>1. Labour market issues are important for students of Micro, Macro, and Labour Economics.</p> <p>2. The course sheds light on a range of issues related to the economic theory, new developments and a host of issues studied by generations of labour market experts.</p> <p><b>Skill Domain-</b></p> <p>1. It attempts to captures the interplay of various factors in the labour market by describing demand – supply aspects, Micro and Macro Approaches in Labour Markets, Discrimination and unemployment, labour contracts, Regulation and International labour standards, workers’ participation and impact of new labour policies in the labour market of India and the World.</p>
<p><b>CBCS M.A.II, Sem. III, DEMOGRAPHY</b> <b>EO – 25 (Elective Paper)</b></p>	<p><b>Knowledge Domain-</b></p> <p><b>1.</b> The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. <b>2.</b> The paper also enlightens the student on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques.</p> <p><b>3.</b> In recent times, changing characteristics of the population have acquired importance and these have also been included in the framework of study.</p> <p>Migration and urbanization are the characteristics of structural change taking place in a society.</p> <p><b>Skill Domain-</b></p> <p><b>1.</b> Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.</p>
<p><b>CBCS M.A.-II, SEM-IV</b> <b>International Economics, EC-O7 (Compulsory paper)</b></p>	<p><b>Knowledge Domain-</b></p> <p>1. The course provides a deep understanding about the broad principles and theories, which govern the free flow of trade in goods, services and capital – both short term and long term – at the global level.</p> <p>2. Besides, preparing the students about the relevance and limitations of these principles, the contents of the paper spread over different units, lay stress on the theory and nature of the</p>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p>subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade to North and South.</p> <p><b>Skill Domain-</b></p> <p>1. The major objective of the paper is to train the students about the various issues of trade and likely consequences on income, employment and social standards and possible policy solutions as the world will move into the 21st century.</p>
<p>CBCS M.A.-II, SEM-IV Economics of Growth and Development , EC-O8 (Compulsory paper)</p>	<p><b>Knowledge Domain-</b></p> <p>1. This paper includes the theories of growth and development, social and sartorial aspects of development, importance of agriculture and industry, the rationale and pattern of industrialization in developing countries.</p> <p>2. The other important issues related to development such as policy environment, infrastructure –linkages, role of international trade, role of monetary and fiscal policies, investment criteria and relevance for planning have been included.</p> <p><b>Skill Domain-</b></p> <p>1. This paper deals with the theoretical aspects of the process of growth and development including the role of agriculture and industry as well as the role of the state.</p>
<p>CBCS M.A.-II, SEM-IV Co-operative Thoughts and Administration , EO – 32 (Elective Paper)</p>	<p><b>Knowledge Domain-</b></p> <p>1. Co-operative movement, now-a-days has become a part of total economic activities.</p> <p>2. It is not only an economic movement, but also social, political and ethical movement, enriching total human life.</p> <p><b>Skill Domain-</b></p> <p>1. Proper understanding of co-operative thoughts and administration is a prerequisite for study of co-operative movement.</p>
<p>CBCS M.A.-II, SEM-IV Advanced Banking, EO – 36 (Elective Paper)</p>	<p><b>Knowledge Domain-</b></p> <p>1. This paper provides detailed information about the Advancement in Indian banking system.</p> <p>2. Though this paper we intended to aware the students about banking technology, recent trends in banking sector.</p> <p><b>Skill Domain-</b></p> <p>1. We also provided the opportunity to the students to achieve as specific skills which are required for working banking sector.</p>

**Department of Chemistry**  
**M.Sc. Analytical Chemistry**

Title of course	Outcomes of course (statements)
<b>Inorganic chemistry 1<sup>st</sup></b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>To acquire the knowledge of basic of chemistry of transition elements</li> <li>To acquire the knowledge of basic of metal carbonyls and related compounds</li> <li>To understand concept of organometallic chemistry</li> <li>To understand the concept of metal-ligand equilibrium in solution</li> <li>To acquire the knowledge of nuclear and radio-chemistry</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>To develop the skill of identify the transition element and their properties</li> <li>To develop the skill of identification of orangnometallic compound and their various reaction</li> <li>To acquire the skill of thermodynamic and stability of metal complexes</li> <li>To develop the skill of identify reaction of nuclear and radioactive compound and their application</li> </ol>
<b>Organic chemistry 1<sup>st</sup></b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>To classify the various type of aliphatic and nucleophilic substitution reaction</li> <li>To understand the concept of aromaticity in benzoate and non benzoate compound</li> <li>To understand the mechanism of various name reaction</li> <li>To acquire knowledge of stereochemistry optical activity and racemic modification</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>To develop the skill of aromaticity of benzoate and nonbenzoate compound</li> <li>To develop the skill of aromatic electrophilic substitution reaction</li> <li>To develop the skill of application of name reaction</li> <li>To develop the skill of identification of R and S nomenclature and reactivity and stability</li> </ol>
<b>Physical chemistry 1<sup>st</sup></b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>To acquire the knowledge of various concept in thermodynamics.</li> <li>To understand the concept of statistical thermodynamics.</li> <li>To acquire the knowledge of colloids and surface phenomena.</li> <li>To acquire detail knowledge of macromolecules.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>To develop the skill of various application thermodynamics.</li> <li>To acquire the skill of determination of energy using statistical thermodynamics.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<ol style="list-style-type: none"> <li>3. To develop the skill of determination of surface area and identification of colloidal system.</li> <li>4. To develop the skill of method for synthesis of macromolecules.</li> </ol>
<b>Analytical chemistry 1<sup>st</sup></b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. To acquire the knowledge errors and sampling</li> <li>2. To acquire the knowledge of fundamental of quantitative analysis</li> <li>3. To acquire the knowledge of various chromatographic methods</li> <li>4. To understand the concept of different electro analytical technique</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1 To develop the skill of determination of errors and methods of sampling</li> <li>2 To develop the skill of various fundamental of quantitative analysis</li> <li>3 To develop the skill of applicative use of various chromatographic methods in analysis</li> <li>4 To acquire the skill of using electroanalytical technique for the analysis of various metal</li> </ol>

**M. Sc -I Analytical Chemistry Sem-II**

<b>Title of Course</b>	<b>Course of Outcomes (Statements)</b>
<b>Inorganic chemistry –II Paper-V</b>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge non transition element and their compound.</li> <li>2) To acquire the knowledge of geometry shape and structure of coordination compound.</li> <li>3) To understand the concept of F-block element.</li> <li>4) To acquire the knowledge of solid state and bioinorganic chemistry.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of identification of structural information of non transition element.</li> <li>2) To develop the skill of identification of stereochemistry and bonding main group compound.</li> <li>3) To enable the skill of determine the physical and chemical priorities of F-block element</li> <li>4) To develop the skill of several of crystals.</li> </ol>
<b>Organic chemistry-II Paper-VI</b>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To understand the mechanism of various arrangement and application.</li> <li>2) To acquire the knowledge of photochemical reaction.</li> <li>3) To acquire the knowledge of reduction and protection of functional group.</li> <li>4) To understand the concept of organometallic compound.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of application of various rearrangement reaction.</li> <li>2) To develop the skill of isomerisation and photochemical reaction.</li> <li>3) To enable the skill of practical application of oxidation and hydroboration.</li> <li>4) To enable the skill of applicative knowledge of organometallic compound.</li> </ol>
<b>Physical chemistry-II Paper -VII</b>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge of quantum chemistry.</li> <li>2) To understand the concept of photochemistry.</li> <li>3) To understand the concept and application of electro chemistry.</li> <li>4) To acquire the knowledge chemical kinetics and catalysis.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of application of quantum chemistry.</li> <li>2) To enable the skill of photo radiation and types of photochemistry.</li> <li>3) To develop the skill of practical application of electrochemistry.</li> <li>4) To enable the skill of use of chemical kinetics in various processes.</li> </ol>
<b>Analytical chemistry-II Paper-VIII</b>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge of UV-Visible, IR spectroscopy.</li> <li>2) To understand the concept of NMR and Mass spectroscopy.</li> <li>3) To understand the different method of thermal analysis.</li> <li>4) To acquire the knowledge of various atomic spectroscopy.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of determination of functional group.</li> <li>2) To enable the skill of determination of element of the structure.</li> <li>3) To enable the skill of various different method of thermal analysis .</li> <li>4) To develop the skill of atomic spectroscopy for the analysis of various method.</li> </ol>

**M. Sc -II Analytical Chemistry; Sem-III**

<b>Title of Course</b>	<b>Course of Outcomes(Statements)</b>
<b>Advance Analytical Method Paper -IX</b>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the advance knowledge of mass spectroscopy.</li> <li>2) To acquire the knowledge of nanotechnology and nanochemistry.</li> <li>3) To know the idea of instrumentation techniques.</li> <li>4) To acquire the knowledge of instrumentation in advance techniques.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To enable the knowledge of advance mass spectroscopy.</li> <li>2) To develop the skill of research based on nanotechnology.</li> <li>3) To develop the skill of instrumentation techniques.</li> <li>4) To understand the main difference between old instrumentation techniques and advance instrumentation techniques</li> </ol>
<p><b>Organo analytical technique Paper -X</b></p>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To understand the various concept of hyphenated techniques.</li> <li>2) To acquire the knowledge of drug analysis and vitamins analysis.</li> <li>3) To acquire the knowledge of clinical analysis and body fluid analysis.</li> <li>4) To acquire the knowledge of pesticide analysis and forensic analysis.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the knowledge of structural determination of spectroscopic techniques and its application.</li> <li>2) To develop the skill of drug analysis and vitamins analysis.</li> <li>3) To develop the skill of clinical analysis and body fluid analysis.</li> <li>4) To develop the skill of pesticide analysis and forensic analysis.</li> </ol>
<p><b>Electroanalytical Techniques in chemical analysis Paper -XI</b></p>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To understand the concept of voltametry and its types.</li> <li>2) To acquire the knowledge of electrophoresis.</li> <li>3) To understand the method of particle analysis.</li> <li>4) To acquire the terminology of ion selective electrode.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of type of voltametry and instrumentation.</li> <li>2) To enable the skill of electrophoresis in analytical chemistry and research.</li> <li>3) To develop the skill of LASER lights scattering with instrumentation and application.</li> <li>4) To enable the skill of ion selective electrode and its applications.</li> </ol>
<p><b>Environmental chemical analysis and control Paper -XII</b></p>	<p><b>Knowledge domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge of sampling.</li> <li>2) To understand the various method of environmental analysis.</li> <li>3) To acquire the knowledge of pollutant.</li> <li>4) To understand the concept of organic pollutant and method of its preparation.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of sampling in analysis.</li> <li>2) To enable the skill of electrochemical and spectral method.</li> <li>3) To enable the skill of different method of analysis in air and water pollutants.</li> <li>4) To develop the skill of analysis of organic pollutants.</li> </ol>

**M. Sc. II Analytical Chemistry; Sem-IV**

<b>Title of Course</b>	<b>Course of Outcomes(Statements)</b>
<b>Modern Separation Method in analysis Paper -XIII</b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge of advance gas chromatography Technique.</li> <li>2) To acquire the knowledge of advance liquid chromatography technique.</li> <li>3) To understand the basic principle and application of ion chromatography.</li> <li>4) To understand the Knowledge of extractive chromatographic separation and modern technique of extraction.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of advance gas chromatography in analysis.</li> <li>2) To enable the skill of advance Liquid chromatography in analysis.</li> <li>3) To develop the skill of applicative idea of ion chromatography.</li> <li>4) To enable the skill of Modern extraction and separation technique and its application based on chromatography.</li> </ol>
<b>Organic Industrial Analysis Paper -XIV</b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1) To acquire the knowledge of industrial analysis of oil, fat, soap and detergent.</li> <li>2) To understand the estimation of food and food additive analysis.</li> <li>3) To acquire the knowledge of analysis of cosmetic product.</li> <li>4) To understand the method of paint, pigment and petroleum product.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the industrial skill of soap manufacture and estimation.</li> <li>2) To enable the idea for preservation of food and their application.</li> <li>3) To enable the skill of future scope of cosmetic product and its role in analytical chemistry.</li> <li>4) To develop the skill of analysis of paint and pigments.</li> </ol>
<b>Advanced method in chemical analysis Paper -XV</b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1) To understand the knowledge of fluorescence and phosphorescence spectrophotometry.</li> <li>2) To acquire the basic and theoretical knowledge of kinetic method of analysis.</li> <li>3) To know the knowledge of electron spectroscopy based on photon.</li> <li>4) To know the knowledge of X-ray generation and origin.</li> </ol>
	<p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1) To develop the skill of application of fluorescence and phosphorescence spectrophotometry.</li> <li>2) To develop the skill of application and enzyme catalyzed reaction of chemical kinetics.</li> <li>3) To enable the skill of instrumentation of photoelectron spectroscopy and auger electron spectroscopy.</li> <li>4) To enable the skill of method of X-Ray spectroscopy and application.</li> </ol>
<b>Industrial analytical chemistry</b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1) To know the various method of spectrochemical analysis.</li> <li>2) To acquire the knowledge of various metal and its application.</li> <li>3) To acquire the knowledge of soil and fertilizer analysis.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<b>Paper -XVI</b>	4) To know the various method of analysis of commercial material.
	<b>Skill Domain</b> 1) To develop the industrial skill of spectrochemical analysis and its application. 2) To enable the idea of estimation of metal and alloy. 3) To develop the skill of soil analysis and determination of pH. 4) To enable the skill of paint and lubricant analysis.



**Department of Mathematics**

**M.Sc.-Mathematics**

Title of Course	Course Outcomes (Statements)
<b>M.Sc.I Semester-I Paper-MT-101 Algebra - I</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of the group theory
	2..to acquire the knowledge of the ring theory
	3. to understand the concept of modules over a ring
	<b>Skill Domain</b>
	1.to develop the skills of group theory
	2. to acquire the skill of ring theory 3. to develop the skill of modules over a ring
<b>Paper-MT-102 Advanced Calculus</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of convergence of sequences and series of functions
	2. to acquire the knowledge of differentiability of functions of several variables
	3. to acquire the knowledge of inverse and implicit function theorems for functions of several variables
	4. to acquire the knowledge of Green's theorem, Stoke's Theorem, Gauss divergence Theorem.
	<b>Skill Domain</b>
	1. to develop the skill of convergence of sequences and series of functions
	2. to develop the skill of differentiability of functions of several variables
	3. to acquire the skill of inverse and implicit function theorems for functions of several variables
	4. to develop the skill of use of Green's theorem, Stoke's Theorem, Gauss divergence Theorem.
<b>Paper: MT103 Real Analysis</b>	<b>Knowledge Domain</b>
	1. to acquire the knowledge of generalise the concept of length of interval.
	2. to acquire the knowledge of the properties of Lebesgue measurable sets.
	3. to acquire the knowledge of demonstrate the measurable functions and their properties.
	4.to understand the concept of Lebesgue integration of measurable functions.
	5. to characterize Riemann and Lebesgue integrability.
	<b>Skill Domain</b>
	1. to develop the skill of generalize the concept of length of interval.
	2. to acquire the skill of the properties of Lebesgue measurable sets.
	3. to acquire the skill of demonstration of measurable functions and their properties.
	4.to understand the concept of Lebesgue integration of measurable functions.
5. to characterize Riemann and Lebesgue integrability.	

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

<p><b>Paper: MT 104</b> <b>Differential Equations</b></p>	<p>1 to acquire the knowledge of basic notions in Differential Equations and use the results in developing advanced mathematics. After completion of this course students will able to solve application problems modeled by linear differential equations and will able to use power series methods to solve differential equations about ordinary points and regular singular points.</p>
<p><b>M.Sc. Part-II Semester-III</b> <b>1. Analysis</b></p>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1.to acquire the knowledge of the basic ideas of Functional Analysis.</li> <li>2. to acquire the knowledge of normed spaces, Banach spaces, Hilbert space,</li> <li>3. to understand the concept of continuous linear transformations between such spaces,</li> <li>4. to know the idea of bounded linear functionals</li> <li>5. to enable the process of finite dimensional spectral theorem.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1.to develop the skills to identify normed spaces, Banach spaces, Hilbert space,</li> <li>2. to acquire the skill of concept of continuous linear transformations between such spaces,</li> <li>3. to develop the skill of bounded linear functionals</li> <li>4. to develop the skill of evaluation of finite dimensional spectral theorem</li> <li>5. to enable the skill of process of Functional Analysis</li> </ol>
<p><b>2. Advanced Discrete Mathematics</b></p>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. to classify the graphs and apply to real world problems</li> <li>2. to acquire the knowledge of simplification of the graphs using matrix.</li> <li>3. to understand the concept of Binomial theorem and use to solve various combinatorial problems.</li> <li>4. to acquire the knowledge of the Boolean identities and apply to switching circuits.</li> <li>5. to enable the knowledge of discrete mathematics and its applications.</li> </ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1.to develop the skill of identification of graphs and its applications.</li> <li>2. to acquire the skill of simplification of the graphs using matrix.</li> <li>3. to develop the skill of Binomial theorem and use to solve various combinatorial problems..</li> <li>4. to develop the skill of evaluation of the Boolean identities</li> <li>5. to enable the skill of identification of properties of discrete mathematics and its applications..</li> </ol>
<p><b>3. Number Theory</b></p>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. to classify the advanced properties of primes and pseudo primes.</li> <li>2. to acquire the knowledge of Mobius Inversion formula to number theoretic functions.</li> <li>3. to understand the basic idea of cryptography.</li> <li>4. to acquire the knowledge of primitive roots and index of an integer relative to a given primitive root.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	5. to enable the knowledge of derivation of Quadratic reciprocity law
	<b>Skill Domain</b>
	1.to develop the skill of identification of advanced properties of primes and pseudo primes.
	2. to acquire the skill of Mobius Inversion formula to number theoretic functions.
	3. to develop the skill of primitive roots and index of an integer relative to a given primitive root.
	4. to develop the skill of evaluation of cryptography.
	5. to enable the skill of identification of Quadratic reciprocity law.
<b>4.Integral Equations</b>	<b>Knowledge Domain</b>
	1. to acquire the knowledge of IVP and BVP
	2. to acquire the knowledge of integral equations.
	3. to understand the concept of solution of Fredholm integral equations with separable kernel.
	4. to acquire the knowledge of application of Hilbert Schmidt Theorem.
	5. to enable the knowledge of solving integral equations by successive approximations, using Laplace and Fourier transforms
	<b>Skill Domain</b>
	1.to develop the skill of solving integral equations by successive approximations, using Laplace and Fourier transforms.
	2. to acquire the skill of application of Hilbert Schmidt Theorem.
	3. to develop the skill of solving integral equations by successive approximations, using Laplace and Fourier transforms
	4. to develop the skill of solving Fredholm integral equations with separable kernel.
	5. to enable the skill of identification of IVP and BVP.
<b>5.Fuzzy Mathematics</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of notion of crisp sets and fuzzy sets,
	2. to acquire the knowledge of operation on fuzzy sets and fuzzy arithmetic.
	3. to understand the basic concept of fuzzy set
	4. to know the idea of fuzzy numbers.
	5. to enable the process of fuzzy operations.
	<b>Skill Domain</b>
	1.to develop the skill of operation on fuzzy sets and fuzzy arithmetic.
	2. to acquire the skill of solving fuzzy arithmetic.
	3. to develop the techniques of fuzzy sets and fuzzy numbers.
	4. to develop the skill of application of evaluation of the notion of fuzzy set, fuzzy number in various problems.
	5. to enable the skill of solving fuzzy set problems.
<b>M.Sc.Part-II Semester IV</b>	<b>Knowledge Domain</b>
<b>6.Field Theory</b>	1.to acquire the knowledge of basis and degree of a field over its subfield
	2. to acquire the knowledge of splitting field
	3. to understand the concept of primitive nth roots of unity and nth cyclotomic

	4. to know the idea of Fundamental Theorem of Galois Theory and Fundamental Theorem
	5. to enable the process of construction with straight edge and compass.
	<b>Skill Domain</b>
	1.to develop the skill to identify basis and degree of a field over its subfield.
	2. to acquire the skill of solving problems in linear transformation.
	3. to develop the skill of constructing splitting field for the given polynomial over the given field.
	4. to develop the skill of finding primitive nth roots of unity and nth cyclotomic polynomial.
	5. to enable the skill of making use of Fundamental Theorem of Galois Theory and Fundamental Theorem.
<b>7.Partial Differential Equations</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of Partial Differential Equations..
	2. to acquire the knowledge of classification of PDE
	3. to understand the concept of transformation into canonical form.
	4. to know the idea of solution of linear partial differential equations of both first and second order.
	5. to enable the process of BVP.
	<b>Skill Domain</b>
	1.to develop the skill to identify PDE.
	2. to acquire the skill of solving PDE.
	3. to develop the skill of transformation into canonical form
	4. to develop the skill of solution of linear partial differential equations of both first and second order.
	5. to enable the skill of various methods in solving BVP.
<b>8.Fractional Differential Equations</b>	<b>Knowledge Domain</b>
	1.to acquire the knowledge of fractional differential equations.
	2. to acquire the knowledge of Mittag-Leffler functions
	3. to understand the concept of data dependency of solution of fractional differential equations.
	4. to know the idea of properties of solution of fractional differential equations with initial boundary conditions.
	5. to enable the process of stability of fractional differential equations.
	<b>Skill Domain</b>
	1.to develop the skill of solution of FDE.
	2. to acquire the skill of solving problems using Mittag-Leffler functions.
	3. to develop the skill of solving data dependency of solution of FDE.
	4. to develop the skill of evaluation fractional differential equations with initial boundary conditions.
	5. to enable the skill of stability of fractional differential equations.
<b>9.Fuzzy Relations and Logic</b>	<b>Knowledge Domain</b>
	1. to.acquire the knowledge of fuzzy relations.
	2. to acquire the knowledge of the basic concepts of fuzzy logic and fuzzy algebra.
	3. to understand the concept of solving fuzzy relation equations.

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

	4. to know the idea of construction of approximate solutions of fuzzy relation equations.
	5. to enable the process of solving problems in Engineering and medicine
	<b>Skill Domain</b>
	1.to develop the skill of solution of fuzzy relations.
	2. to acquire the skill of fuzzy logic and fuzzy algebra..
	3. to develop the skill of solving fuzzy relation equations..
	4. to develop the skill of construction of approximate solutions of fuzzy relation equations.
	5. to enable the skill solving problems in Engineering and medicine
<b>10. Combinatorics</b>	<b>Knowledge Domain</b>
	1. to.acquire the knowledge of Pigeonhole principle.
	2. to acquire the knowledge of the basic definitions and theorems.
	3. to understand the concept of Burnside Frobenius Theorem in counting's.
	4. to know the idea of various counting techniques to solve various problems.
	5. enable to apply combinatorial ideas to practical problems.
	<b>Skill Domain</b>
	1.to develop the skill of solution of problem using Pigeonhole principle.
	2. to acquire the skill of construction of solutions of problems using basic definitions and theorems.
	3. to develop the skill of application of Burnside Frobenius Theorem in counting's.
	4. to develop the skill of various counting techniques to solve various problems.
	5. to improve the skill of mathematical verbal communication.

**Career Oriented Courses (COC)**

<b>Sr. No</b>	<b>Title of the course</b>	<b>Course Outcomes</b>
1.	<b>Art Of Translation</b>	<p align="center"><b>Knowledge Domain:</b></p> <ol style="list-style-type: none"> <li>1) To prepare the students to be proficient in their spoken and written communication skills in English.</li> <li>2) To help the students to learn and practice both language and soft skill.</li> <li>3) To develop the students employability skills.</li> </ol> <p align="center"><b>Skill Domain:</b></p> <ol style="list-style-type: none"> <li>1) To enable the students to develop communication skill.</li> <li>2) To make the students active in spoken and written English</li> </ol>
2.	<b>Certificate Course in Tourism</b>	<p align="center"><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>3. To create awareness among the students about this growing industry of World.</li> <li>4. To generate opportunities of self employment</li> <li>5. To make an assessment of few destinations to obtain practical experiences</li> </ol> <p align="center"><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>3. Students can organize tours.</li> </ol> <p>Students can consult about different destinations of Tourism Interest</p>
3.	<b>Certificate Course in Banking</b>	<p align="center"><b>Knowledge Domain</b></p> <ol style="list-style-type: none"> <li>1. Student will be able to use of e-banking service.</li> <li>2. Learners will understand the nature of banking business.</li> <li>3. To make an assessment of few destinations to obtain practical experiences</li> </ol> <p align="center"><b>Skill Domain</b></p> <ol style="list-style-type: none"> <li>1. Use of e-banking Service.</li> <li>2. Able to provide financial consultancy.</li> <li>3. Ability to explain monetary system in India.</li> </ol>
4.	<b>Retailing</b>	<ol style="list-style-type: none"> <li>1) To create awareness among the students regarding the concept of retail, retailing, retailer and salesmanship.</li> <li>2) To create awareness among the students regarding the self – employment.</li> <li>3) To Study the consumption habits of the customers.</li> </ol>
5.	<b>Insurance</b>	<ol style="list-style-type: none"> <li>1) This course familiarizes the learners with the fundamentals of insurance.</li> <li>2) The course enables the learns to know the procedural and documentation part of insurance.</li> </ol>
6.	<b>Information and Communication Technology.</b>	<ol style="list-style-type: none"> <li>1) Awareness of basic knowledge of Computer concept.</li> <li>2) To develop idea for creation of Website.</li> <li>3) To develop Programming skill.</li> </ol>

**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar**

**INTERNAL QUALITY ASSURANCE CELL**

**Course Outcomes (CO), Program outcomes (PO), and Program Specific Outcomes (PSO): 2019-20**

7.	<b>Biotechnology</b>	<ol style="list-style-type: none"><li>1. To develop skill,</li><li>2. Improving self awareness</li><li>3. Developing strength</li><li>4. Building up self confidence</li><li>5. Different techniques used in biotechnology</li></ol>
8.	<b>Certificate Course in Sericulture</b>	<p><b>Knowledge Domain</b></p> <ol style="list-style-type: none"><li>1. To increase employability of Student.</li><li>2. To train the student from to poor economic backgrounds so as to take Sericulture as a self employment.</li><li>3. To develop an expert manpower to handle the Sericulture units.</li></ol> <p><b>Skill Domain</b></p> <ol style="list-style-type: none"><li>4. Students can organize tours.</li><li>5. To train the student in silk production technique.</li></ol>

Life Long Learning and Extension Courses (LLLE Courses)

**1. Personality Development and Beauty Culture**

<b>Title of Course</b>	<b>Course Outcomes</b>
<b>Personality Development and Beauty Culture</b>	To develop skill, Improving self awareness Developing strength Building up self confidence Learn about how to become presentable Enhancing life style and quality of life

**2. Basic English Grammar**

<b>Title of Course</b>	<b>Course Outcomes</b>
<b>Basic English Grammar</b>	<b>Knowledge Domain:</b> To Enable the student .....
	1. to acquire the knowledge of the basic Sentence Pattern in English
	2. to acquire the knowledge of Tenses
	3. to understand different Parts of Speech
	4. to acquire basic skills like Listening ,Speaking ,Reading and Writing etc.
	<b>Skill Domain:</b> To Enable the student .....
	1. to use the knowledge of the basic Sentence Pattern in English
	2. to make use Tenses in real life situation
	3. to identify and use different Parts of Speech
	4. to use basic skills like Listening ,Speaking ,Reading and Writing in day today life.