

# Mamasaheb Mohol College

Paud Road, Pune-38.

**2.6.1** Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

## List of Course Outcomes

2021-22

### BA English

| Course Outcomes          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Course Code: 1037</b> | <b>FYBA- Optional English (General Paper-I) (Text- Interface)</b>                                                     |
| CO1                      | To expose students to the basics of literature and language                                                           |
| CO2                      | To prepare students to go for detailed study and understanding of literature and language                             |
| CO3                      | To introduce the basic units of language so that they become aware of the technical aspects and their practical usage |
| <b>Course Code:1017</b>  | <b>FYBA Compulsory English (Text-Visionary Gleam)</b>                                                                 |
| CO1                      | To develop students' interest in writing and reading literary pieces                                                  |
| CO2                      | To develop competence among the students for self-learning                                                            |
| CO3                      | To expose students to varied cultural experiences through literature                                                  |
| CO4                      | To contribute to their overall personality development by improving their communicative and soft skills               |
| CO5                      | improve grammar knowledge                                                                                             |
| <b>Course Code:2017</b>  | <b>SYBA Compulsory English (Text-Literary Landscapes)</b>                                                             |
| CO1                      | To develop students' interest in reading literary pieces                                                              |
| CO2                      | To develop competence among the students for self-learning                                                            |
| CO3                      | To expose students to varied cultural experiences through literature                                                  |
| CO4                      | To contribute to their overall personality development by improving their communicative and soft skills               |
| <b>Course Code:3017</b>  | <b>TYBA Compulsory English (Text-Literary Pinnacles)</b>                                                              |
| CO1                      | To acquaint the students with communicative abilities through the literary texts                                      |

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| CO2 | To create interest among them to go through the literary pieces                                         |
| CO3 | To expose students to varied cultural experiences through literature                                    |
| CO4 | To contribute to their overall personality development by improving their communicative and soft skills |

### **BA political Science**

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| <b>Course Code:G1</b> | <b>Indian Government and Politics(fyba)</b>                                                                  |
| CO1                   | To Orient the students towards the concept of Indian Government and politics.                                |
| CO2                   | To know the Indian Constitution.                                                                             |
| CO3                   | To know the Fundamental Rights and Duties.                                                                   |
| CO4                   | The acquaint the student's structure of Center and State government.                                         |
| CO5                   | To Understand cast Religion in Indian Politics.                                                              |
| <b>Course Code:G2</b> | <b>Political Theory and Concepts(syba)</b>                                                                   |
| CO1                   | The concepts, ideas and theories in political theory.                                                        |
| CO2                   | The evolution and usage of these concepts, ideas and theories.                                               |
| CO3                   | The different ideological standpoints about various concepts and theories.                                   |
| CO4                   | To know the Globalization.                                                                                   |
| <b>Course Code:G3</b> | <b>Local Self Government in Maharashtra(tyba)</b>                                                            |
| CO1                   | To aware Local Self Government Pre-Independence Period: British Period                                       |
| CO2                   | To introduce the students to the structure of Local Self Government of Maharashtra                           |
| CO3                   | To make students aware of the various Local Self Institutions, their functions, compositions and importance. |
| CO4                   | To identity the role of Local Government and Local Leadership in development                                 |

### **BA Geography**

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| <b>Course Code:110</b> | <b>Elements of Geomorphology</b>                                                                                 |
| CO1                    | Introduce the basic concepts in Geomorphology to students.                                                       |
| CO2                    | To introduce latest concept in Geomorphology                                                                     |
| CO3                    | To acquaint the students with the utility and application of Geomorphology in different regions and environment. |

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| CO4                    | To make the students aware of the need of protection and conservation of different landforms                       |
| <b>Course Code:210</b> | <b>Elements of Climatology and Oceanography</b>                                                                    |
| CO1                    | To introduce the students to the basic principles and concepts in Climatology and Oceanography.                    |
| CO2                    | To acquaint the students with the applications of Climatology and Oceanography in different areas and environment. |
| CO3                    | To make the students aware of the Planet Earth and thereby to enrich the student's knowledge                       |
| <b>Course Code:310</b> | <b>Regional Geography of India</b>                                                                                 |
| CO1                    | To acquaint the students with geography of our Nation                                                              |
| CO2                    | To make the student aware of the magnitude of problems and prospects National level                                |
| CO3                    | To help the students to understand the inter relationship between the subject and the society                      |
| CO4                    | To help the students to understand the recent trends in regional studies                                           |

### **BA Marathi**

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| <b>Course 11021 A</b>    | <b>सामान्य स्तर अभ्यासपत्रिका क्र.०१ 'समकालीन मराठी कथा - डॉ. शिरीष लांडगे, डॉ. दिलीप पवार, डॉ. संदीप सांगळे</b> |
| CO1                      | साहित्यासंबंधी विद्यार्थ्यांच्या मनामध्ये रुची निर्माण करणे.                                                     |
| CO2                      | विद्यार्थ्यांच्या वाङ्मयीन अभिरुचीचा विकास करणे.                                                                 |
| CO3                      | आस्वाद घेण्याची डोळस क्षमता विकसित करणे.                                                                         |
| CO4                      | साहित्याभ्यासातून जीवनविषयक समज विकसित करणे.                                                                     |
| CO5                      | मराठी साहित्यातील भिन्न भिन्न प्रवाह आणि प्रकार ओळख करून देणे.                                                   |
| CO6                      | व्यक्तिमत्त्व विकासात भाषेचे स्थान स्पष्ट करणे.                                                                  |
|                          | <b>SYBA Marathi</b>                                                                                              |
| <b>Course Code 23023</b> | <b>भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार :कांदबरी G2</b>                                              |

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| CO1                          | कांदबरी या साहित्यप्रकाराचे स्वरूप . घटक , प्रकार आणि वाटचाल समजून घेणे.                         |
| CO2                          | नेमलेल्या कांदबरी चे आकलन आस्वाद आणि विश्लेषण करणे.                                              |
| CO3                          | भाषिक कौशल्यविकास करणे.                                                                          |
| CO4                          | ललितगद्य गद्य , या साहित्यप्रकाराचे स्वरूप ,घटक प्रकार आणि वाटचाल समजूनघेणे                      |
| CO5                          | नेमलेल्या अभ्यास पुस्तकातील ललित गद्यचे आकलन आणि विश्लेषण करणे.                                  |
| <b>Course code<br/>23021</b> | <b>सेमिस्टर -III S1</b><br><b>आधुनिक मराठी साहित्य : प्रकाशवाटा -डॉ .प्रकाश आमटे</b>             |
| CO1                          | मराठी साहित्यप्रकारांच्या तात्विक घटकांचे ज्ञान करून देणे.                                       |
| CO2                          | वेगवेगळ्या कालखंडातील मराठीतील अभिजात साहित्यकृतींचा संस्कार घडविणे.                             |
| CO3                          | साहित्याविषयी अभिरुची निर्माण करणे.                                                              |
| CO4                          | साहित्यकृतीचे आकलन, आस्वाद आणि मूल्यमापन करण्याची दृष्टी निर्माण करणे.                           |
| CO5                          | साहित्यकृतीचा सूक्ष्म पातळीवर अभ्यास करण्याची क्षमता विकसित करणे.                                |
| CO6                          | आत्मचरित्र या साहित्य प्रकारचे स्वरूप ,संकल्पना समजावून घेणे.                                    |
| CO7                          | आत्मचरित्र या साहित्यप्रकाराचे प्रेरणा आणि वाटचाल यांची ओळख करून देणे .                          |
| <b>Course code 23022</b>     | <b>सेमिस्टर- I साहित्यविचार S2 सेमिस्टर -III, सेमिस्टर- IV साहित्य समीक्षा S2</b>                |
| CO1                          | भारतीय आणि पाश्चत्य साहित्यातील आधारे साहित्याची संकल्पना ,स्वरूप आणि प्रयोजन विचार समजून घेणे . |
| CO2                          | साहित्याची निर्मितीप्रक्रीया समजावून घेणे.                                                       |
| CO3                          | साहित्याची भाषा आणि शैली विषयक विचार समजावून घेणे .                                              |
| CO4                          | साहित्य समीक्षेची संकल्पना ,स्वरूप यांचा परिचय करून घेणे .                                       |
| CO5                          | साहित्य आणि समीक्षा यांचे परस्पर संबंध समजावून घेणे व अभ्यासणे..                                 |
| CO6                          | साहित्य प्रकारानुसार समीक्षेचे स्वरूप समजावून घेणे व अभ्यासणे.                                   |
| CO7                          | ग्रंथ परिचय .परीक्षण यातील फरक समजावून घेणे .                                                    |
| CO8                          | साहित्य समीक्षेची संकल्पना ,स्वरूप यांचा परिचय करून घेणे .                                       |
|                              | <b>TYBA Marathi</b>                                                                              |
| <b>Course Code:3027</b>      | <b>TYBA G3 Name of Course/paperआधुनिक मराठी साहित्य आणि उपयोजित मराठी</b>                        |
| CO1                          | नेमलेल्या साहित्यकृतीचा स्थूल परिचय करून देणे.                                                   |
| CO2                          | भाषेचे आकलन व उपयोजन करण्याची क्षमता विकाशित करणे.                                               |
| CO3                          | विद्यार्थ्यांची वाचन , लेखन , क्षमता विकाशित करून ग्रंथ परीक्षणाची आवड निर्माण                   |

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|                         | करणे                                                                                                                        |
| CO4                     | साहित्य कृतीची आवड विकाशित करून आस्वाद घेण्याची क्षमता वाढविणे                                                              |
| CO5                     | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                                      |
| <b>Course Code:3028</b> | <b>TYBA S3 Name of Course/paper साहित्यविचार</b>                                                                            |
| CO1                     | साहित्याचे स्वरूप व प्रयोजने समजून घेणे.                                                                                    |
| CO2                     | साहित्य निर्मिती प्रक्रिया समजून घेणे.                                                                                      |
| CO3                     | साहित्य व समाज यांचा परस्पर संबंध समजून घेणे.                                                                               |
| CO4                     | साहित्यनिर्मिती प्रक्रिया व वाङ्मयीन मुल्य समजून घेणे.                                                                      |
| CO5                     | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                                      |
| <b>Course Code:3029</b> | <b>TYBA S4 Name of Course/paper भाषाविज्ञान वर्णनात्मक आणि ऐतिहासिक</b>                                                     |
| CO1                     | भाषेचे स्वरूप व कार्य स्पष्ट करणे.                                                                                          |
| CO2                     | भाष्याभ्यासाची प्रमुख अंगे व पद्धती अभ्यासणे.                                                                               |
| CO3                     | स्वनिम व्यवस्था व स्वनि निर्मितीची प्रक्रिया, मराठीची रूपीम व्यवस्था, वाक्य व अर्थविन्यास संकल्पनेचा स्थूल परिचय करून देणे. |
| CO4                     | भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                                            |
| CO5                     | ऐतिहासिक भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                                   |
|                         | <b>Program: M. A. (Marathi)</b>                                                                                             |
|                         |                                                                                                                             |
| <b>Course Code:1091</b> | <b>MA Marathi Sem I- Name of Course/paper व्यावहारिक आणि उपयोजित मराठी भाग 1</b>                                            |
| CO1                     | लेखन कौशल्य विकसित करणे                                                                                                     |
| CO2                     | भाषिक कौशल्य व प्रसारमाध्यमे यांच्यातीलपरस्पर संबंधाचे ज्ञान विद्यार्थ्यांना करून देणे.                                     |
| CO3                     | वैकार्यालयीन, व्यावसायिक भाषिक संज्ञाचा परिचय करून देणे.                                                                    |
| CO4                     | विद्यार्थ्यांना मराठीच्या व्यवहार क्षेत्राची माहिती देणे.                                                                   |
| CO5                     | प्रसारमाध्यमातील संधींचा परिचय करून देणे.                                                                                   |
| <b>Course Code:1092</b> | <b>MA Marathi Sem I- Name of Course/paper मध्ययुगीन मराठी वाङ्मयाचा इतिहास प्रारंभ ते 1818</b>                              |
| CO1                     | मराठी वाङ्मयाचा इतिहासाचे स्थूल स्वरूप स्पष्ट करणे.                                                                         |
| CO2                     | मध्ययुगीन मराठी वाङ्मयाच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                                        |
| CO3                     | वाङ्मयाच्या विशिष्ट कालखंडाच्या पार्श्वभूमीचा अभ्यास करणे.                                                                  |
| CO4                     | वाङ्मयीन साहित्य प्रकारच्या विकासाचे महत्वाचे टप्पे लक्षात घेणे.                                                            |
| CO5                     | मध्ययुगीन मराठी वाङ्मयातील साहित्यकृती यांचा परिचय करून देणे.                                                               |

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| <b>Course Code:1093</b>  | <b>MA Marathi Sem I- Name of Course/paper भाषाविज्ञान वर्णनात्मक</b>                                                       |
| CO1                      | भाषेचे स्वरूप व कार्य स्पष्ट करणे.                                                                                         |
| CO2                      | भाष्याभ्यासाची प्रमुख अंगे व पद्धती अभ्यासणे.                                                                              |
| CO3                      | स्वनिम व्यवस्था व स्वन निर्मितीची प्रक्रिया, मराठीची रूपीम व्यवस्था, वाक्य व अर्थविन्यास संकल्पनेचा स्थूल परिचय करून देणे. |
| CO4                      | भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                                           |
| CO5                      | वर्णनात्मक भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                                |
| <b>Course Code: 1094</b> | <b>MA Marathi Sem I- Name of Course/paper ग्रामीण साहित्य (ऐच्छिक),</b>                                                    |
| CO1                      | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                                     |
| CO2                      | ग्रामीण साहित्याच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                                              |
| CO3                      | ग्रामीण साहित्यातील अस्वादन, आकलन, मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण करणे.                              |
| CO4                      | ग्रामीण साहित्य व समाज यांचा परस्पर संबंध समजून घेणे.                                                                      |
| CO5                      | ग्रामीण साहित्यनिर्मिती प्रक्रिया व वाङ्मयीन मूल्य समजून घेणे.                                                             |
| <b>Course Code: 2091</b> | <b>MA Marathi Sem II- Name of Course/paper व्यावहारिक आणि उपयोजित मराठी भाग 2,</b>                                         |
| CO1                      | लेखन कौशल्य विकसित करणे                                                                                                    |
| CO2                      | भाषिक कौशल्य व प्रसारमाध्यमे यांच्यातील परस्पर संबंधाचे ज्ञान विद्यार्थ्यांना करून देणे.                                   |
| CO3                      | वैकार्यालयीन, व्यावसायिक भाषिक संज्ञाचा परिचय करून देणे.                                                                   |
| CO4                      | विद्यार्थ्यांना मराठीच्या व्यवहार क्षेत्राची माहिती देणे.                                                                  |
| CO5                      | प्रसारमाध्यमातील संधींचा परिचय करून देणे.                                                                                  |
| <b>Course Code: 2092</b> | <b>MA Marathi Sem II- Name of Course/paper मध्ययुगीन मराठी वाङ्मयाचा इतिहास</b>                                            |
| CO1                      | मराठी वाङ्मयाचा इतिहासाचे स्थूल स्वरूप स्पष्ट करणे.                                                                        |
| CO2                      | मध्ययुगीन मराठी वाङ्मयाच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                                       |
| CO3                      | वाङ्मयाच्या विशिष्ट कालखंडाच्या पार्श्वभूमीचा अभ्यास करणे.                                                                 |
| CO4                      | वाङ्मयीन साहित्य प्रकारच्या विकासाचे महत्वाचे टप्पे लक्षात घेणे.                                                           |
| CO5                      | मध्ययुगीन मराठी वाङ्मयातील साहित्यकृती यांचा परिचय करून देणे.                                                              |
| <b>Course Code: 2093</b> | <b>MA Marathi Sem II- Name of Course/paper भाषाविज्ञान सामाजिक</b>                                                         |
| CO1                      | विद्यार्थ्यांना भाषिक संशोधन क्षेत्र निश्चित करता येणे.                                                                    |
| CO2                      | सामाजिक भाषाविज्ञान भाष्याभ्यासाची प्रमुख अंगे व पद्धती अभ्यासणे.                                                          |
| CO3                      | सामाजिक भाषाविज्ञान संकल्पनेचा स्थूल परिचय करून देणे.                                                                      |

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| CO4                      | भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                              |
| CO5                      | सामाजिक भाषा अभ्यास पद्धतीचे स्वरूप व महत्व स्पष्ट करणे.                                                      |
| <b>Course Code: 2094</b> | <b>MA Marathi Sem II- Name of Course/paper दलित साहित्य (ऐच्छिक)</b>                                          |
| CO1                      | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                        |
| CO2                      | दलित साहित्याच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                                    |
| CO3                      | दलित साहित्यातील अस्वादन, आकलन, मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण करणे.                    |
| CO4                      | दलित साहित्य व समाज यांचा परस्पर संबंध समजून घेणे.                                                            |
| CO5                      | दलित साहित्यनिर्मिती प्रक्रिया व वाङ्मयीन मूल्य समजून घेणे.                                                   |
| <b>Course Code: 3091</b> | <b>MA Marathi Sem III- Name of Course/paper- प्रसार माध्यमे आणि साहित्य व्यवहार भाग 1</b>                     |
| CO1                      | प्रसारमाध्यमाचे स्वरूप व भाषा व्यवहार समजावून सांगणे.                                                         |
| CO2                      | विविध लेखन प्रकारचा अभ्यास व प्रत्यक्ष लेखन करून घेणे.                                                        |
| CO3                      | लेखन संपादन लेखन विद्या भाषांतर रूपांतर प्रक्रियेविषयी आणि साहित्य संबंधीच्या समस्यांविषयी माहिती देणे.       |
| CO4                      | भाषिक कौशल्य व प्रसारमाध्यमे यांच्यातील परस्पर संबंधाचे ज्ञान विद्यार्थ्यांना करून देणे.                      |
| CO5                      | भाषेचे विविध व्यवहार आणि साहित्याचे भाषा संदर्भातील व्यवहार यासंबंधी आकलन क्षमता वाढवणे                       |
| <b>Course Code:3092</b>  | <b>MA Marathi Sem III- Name of Course/paper साहित्य समीक्षा आणि संशोधन</b>                                    |
| CO1                      | विद्यार्थ्याला आपल्या आवडीचे संशोधन क्षेत्र निश्चित करता येणे.                                                |
| CO2                      | साहित्य संशोधन व समीक्षा या संदर्भात क्षमता वाढवणे.                                                           |
| CO3                      | साहित्य व समाज यांचा परस्पर संबंध समजून घेणे.                                                                 |
| CO4                      | साहित्यनिर्मिती प्रक्रिया व वाङ्मयीन मूल्य समजून घेणे.                                                        |
| CO5                      | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                        |
| <b>Course Code:3093</b>  | <b>MA Marathi Sem III- Name of Course/paper विशेष लेखकाचा अभ्यास</b>                                          |
| CO1                      | विशेष लेखकाच्या साहित्यकृतीच्या अभ्यासाबद्दल व्याप्ती आणि मर्यादा यांची समज होण्यास निर्माण होण्यास मदत करणे. |
| CO2                      | विशिष्ट कालखंडातील साहित्याच्या व्यक्तीबद्दल ज्ञान निर्माण होण्यास मदत करणे                                   |
| CO3                      | विशेष लेखकाचे मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण करणे.                                      |
| CO4                      | विशेष लेखकाच्या साहित्यकृतीच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                      |
| CO5                      | लेखकाच्या समग्र लेखक म्हणून अभ्यासाची समज निर्माण होण्यास मदत करणे.                                           |

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| <b>Course Code: 3094</b> | <b>MA Marathi Sem III- Name of Course/paper लोकसाहित्याची मूलतत्वे आणि मराठी लोकसाहित्य</b>                   |
| CO1                      | मराठी लोकसाहित्य व लोकजीवन अभ्यास करणे.                                                                       |
| CO2                      | लोकसाहित्यातून लोकसंस्कृतीचा परिचय देणे.                                                                      |
| CO3                      | लोकसाहित्य संशोधनाच्या क्षेत्रीय पद्धतीचा परिचय करून देणे.                                                    |
| CO4                      | भारतीय परंपरा व लोकसाहित्य यांचा अनुबंध स्पष्ट करणे.                                                          |
| CO5                      | लोकसाहित्य विषयीच्या संशोधनाची आवड निर्माण करणे.                                                              |
| <b>Course Code:4091</b>  | <b>MA Marathi Sem IV- Name of Course/paper प्रसार माध्यमे आणि साहित्य व्यवहार भाग 2</b>                       |
| CO1                      | प्रसारमाध्यमाचे स्वरूप व भाषा व्यवहार समजावून सांगणे.                                                         |
| CO2                      | विविध लेखन प्रकारचा अभ्यास व प्रत्यक्ष लेखन करून घेणे.                                                        |
| CO3                      | लेखन संपादन लेखन विद्या भाषांतर रूपांतर प्रक्रियेविषयी आणि साहित्य संबंधीच्या समस्यांविषयी माहिती देणे.       |
| CO4                      | भाषिक कौशल्य व प्रसारमाध्यमे यांच्यातील परस्पर संबंधाचे ज्ञान विद्यार्थ्यांना करून देणे.                      |
| CO5                      | भाषेचे विविध व्यवहार आणि साहित्याचे भाषा संदर्भातील व्यवहार यासंबंधी आकलन क्षमता वाढवणे                       |
| <b>Course Code: 4092</b> | <b>MA Marathi Sem IV- Name of Course/paper साहित्य समीक्षा आणि संशोधन</b>                                     |
| CO1                      | विद्यार्थ्याला आपल्या आवडीचे संशोधन क्षेत्र निश्चित करता येणे.                                                |
| CO2                      | साहित्य संशोधन व समीक्षा या संदर्भात क्षमता वाढवणे.                                                           |
| CO3                      | साहित्य व समाज यांचा परस्पर संबंध समजून घेणे.                                                                 |
| CO4                      | साहित्यनिर्मिती प्रक्रिया व वाङ्मयीन मुल्य समजून घेणे.                                                        |
| CO5                      | मराठी साहित्यातील विविध प्रवाह आणि प्रकार लक्षात घेणे.                                                        |
| <b>Course Code: 4093</b> | <b>MA Marathi Sem IV- Name of Course/paper विशेष लेखकाचा अभ्यास</b>                                           |
| CO1                      | विशेष लेखकाच्या साहित्यकृतीच्या अभ्यासाबद्दल व्याप्ती आणि मर्यादा यांची समज होण्यास निर्माण होण्यास मदत करणे. |
| CO2                      | विशिष्ट कालखंडातील साहित्याच्या व्यक्तीबद्दल ज्ञान निर्माण होण्यास मदत करणे                                   |
| CO3                      | विशेष लेखकाचे मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण करणे.                                      |
| CO4                      | विशेष लेखकाच्या साहित्यकृतीच्या प्रेरणा प्रवृत्ती यांचा परिचय करून देणे.                                      |
| CO5                      | लेखकाच्या समग्र लेखक म्हणून अभ्यासाची समज निर्माण होण्यास मदत करणे.                                           |
| <b>Course Code: 4094</b> | <b>MA Marathi Sem IV- Name of Course/paper लोकसाहित्याची मूलतत्वे आणि मराठी लोकसाहित्य</b>                    |
| CO1                      | मराठी लोकसाहित्य व लोकजीवन अभ्यास करणे.                                                                       |



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| CO2 | लोकसाहित्यातून लोकसंस्कृतीचा परिचय देणे.                   |
| CO3 | लोकसाहित्य संशोधनाच्या क्षेत्रीय पद्धतीचा परिचय करून देणे. |
| CO4 | भारतीय परंपरा व लोकसाहित्य यांचा अनुबंध स्पष्ट करणे.       |
| CO5 | लोकसाहित्य विषयीच्या संशोधनाची आवड निर्माण करणे.           |

### **BA Hindi**

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| <b>1097:Course Code</b>  | ( F.Y.B.A. G. 1 ) प्रथमवर्ष – कला : सामान्य हिंदी                                                     |
| CO1                      | 1) छात्रों को हिंदी के गद्य – पद्य विधा से परिचित कराना                                               |
| CO2                      | 2) साहित्य की विविध विधाओं का परिचय देना                                                              |
| CO3                      | 3) कथासाहित्य, कविता, एकांकी, साक्षात्कार, रेखाचित्र,                                                 |
| CO4                      | आत्मकथा आदि विधाओं के माध्यम से छात्रों में साहित्य के प्रति अभिरुची का निर्माण करना                  |
| CO5                      | 4) छात्रों में साहित्य के माध्यम से नीतिमूल्यों का बीजवपन करना                                        |
| CO6                      | 5) छात्रों में देश प्रेम, समाज प्रेम का भाव निर्माण कर सामाजिक प्रतिबद्धता को विकसित कराना            |
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| <b>2097 :Course Code</b> | <b>S.Y.B.A (G.2) द्वितीयवर्ष – कला – हिंदीसामान्य - 2</b><br>(कहानी, काव्य एवं लेखन)                  |
| CO1                      | 1) कहानी तथा काव्य विधा से छात्रों को परिचित कराना                                                    |
| CO2                      | 2) प्रतिनिधी कहानीकारों एवं कवियों का परिचय देना                                                      |
| CO3                      | 3) कहानी के तत्वों के माध्यम से कहानियों की समीक्षा करना                                              |
| CO4                      | 4) व्यावहारिक हिंदी का ज्ञान देकर छात्रों को समाज- व्यवहार में कुशल बनाना                             |
| CO5                      | 5) कार्यालयीन, हिंदी, पत्र, शब्दयुग्म, पारिभाषिक शब्दावली, भेटवार्ता, साक्षात्कार आदि से परिचित कराना |
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| <b>Course Code :3097</b> | <b>(T.Y.B.A (G.3) तृतीय वर्ष – कला – हिंदीसामान्य - 3</b><br>(कहानी, काव्य एवं लेखन)                  |
| CO1                      | 1) हिंदी आत्मकथा साहित्य का छात्रों को परिचय देना                                                     |
| CO2                      | 2) आत्मकथा के तत्वों द्वारा आत्मकथाओं की समीक्षा करना                                                 |
| CO3                      | 3) काव्य साहित्य में खंडकाव्य का परिचय देकर खंडकाव्य के माध्यम से नीतिमूल्यों की स्थापना करना         |
| CO4                      | 4) कार्यालयीन हिंदी और प्रशासनिक हिंदी का ज्ञान देना  परिणामतः सरकारी                                 |

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|                                   | दफ्तर में छात्र पत्रव्यवहार करने की क्षमता प्राप्त करें।                                                                                                                                                   |
| CO5                               | 5) छात्र में साहित्य के प्रति अभिरुचि निर्माण कर छात्रों को स्वयं –लेखन के लिए प्रेरणा प्राप्त होती है। छात्र में साहित्य के प्रति अभिरुची निर्माण हो जाती है, और छात्र स्वयं लेखन की ओर प्रवृत्त होता है। |
| <b><u>MA Part 1 Economics</u></b> |                                                                                                                                                                                                            |
|                                   | <b>Micro Economic Analysis I EC</b>                                                                                                                                                                        |
| <b>:Course Code1001</b>           | Understand the nature of economic issues of micro economic analysis.                                                                                                                                       |
| CO1                               | Knowledge of supply analysis                                                                                                                                                                               |
| CO2                               | Market structure and factor pricing                                                                                                                                                                        |
|                                   | <b>Public Economics I EC</b>                                                                                                                                                                               |
| <b>:Course Code 1002</b>          | Studied the role of Government in organized society                                                                                                                                                        |
| CO1                               | Knows the changing perspective of Government in a mixed economy.                                                                                                                                           |
| CO2                               | Understand the theory of Club goods and Stabilization policy                                                                                                                                               |
| CO3                               | Understand the theories of Public Expenditure                                                                                                                                                              |
| CO4                               | Understands the Reforms in Expenditure Budgeting.                                                                                                                                                          |
|                                   | Understand the Theories of Taxation.                                                                                                                                                                       |
| <b>:Course Code 1003</b>          | <b>International Trade EC</b>                                                                                                                                                                              |
|                                   | Understand the wide meaning nature and scope of international trade after the study of classical and modern trade theories.                                                                                |
| CO1                               | Understand the wide nature of terms of trade relating with international trade                                                                                                                             |
| CO2                               | It make a comprehensiveness and wisdom relates with international trade policies and the common knowledge of WTO,GATT and world trade.                                                                     |
| <b>:Course Code 1004</b>          | <b>Indian Economic Policy EC</b>                                                                                                                                                                           |
|                                   | Knows the Meaning- Concept, Significance and Peculiarities of Economic Policy.                                                                                                                             |
| CO1                               | Understand the monetary, Fiscal policy & Importance of Economic policy.                                                                                                                                    |
| CO2                               | Understand the theories of policies.                                                                                                                                                                       |
| CO3                               | Knows the government policies.                                                                                                                                                                             |
| CO4                               | Understand the causes, effects and remedies WTO policies.                                                                                                                                                  |

**MA Part 2 Economics**

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| <b>:Course Code 2004</b> | <b>Agricultural Economics EC</b>                                                                                                                                                                                                                                                                                                                 |
|                          | Understand the meaning, scope, importance of Agricultural Economics.                                                                                                                                                                                                                                                                             |
| CO1                      | Understand the sources of finance- private, public and cooperative sector, shares and debentures.                                                                                                                                                                                                                                                |
| CO2                      | Know the need and forms of Foreign Capital.                                                                                                                                                                                                                                                                                                      |
| CO3                      | Know the Problems of regional imbalance and agricultural growth in India                                                                                                                                                                                                                                                                         |
| CO4                      | Understand the agricultural policy and trends in agricultural growth.                                                                                                                                                                                                                                                                            |
| CO5                      | Understand the role of agriculture and importance in India.                                                                                                                                                                                                                                                                                      |
| <b>:Course Code 3001</b> | <b>Macro Economics Analysis I</b>                                                                                                                                                                                                                                                                                                                |
|                          | It equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.                                                                                                                                                                                                        |
| CO1                      | In order to understand economics it's important to master a set of key definitions and understand how they interconnect. These concepts will be used many times throughout the course. At the most basic level: National Income ,which includes the measure concept of Gross Domestic Product, Gross National Product, Net Domestic Product etc. |
| CO2                      | It defines the measure concept of aggregate supply & aggregate demand and the Keynesian approach, determination of equilibrium of aggregate demand and supply theory.                                                                                                                                                                            |
| CO3                      | Understand the brief structure of IS-LM Model, and it defines the New Classical Macroeconomics & Open Economy Issues.                                                                                                                                                                                                                            |
| <b>:Course Code 3002</b> | <b>Growth &amp; Development I EC</b>                                                                                                                                                                                                                                                                                                             |
|                          | Understand the concept of development and under development.                                                                                                                                                                                                                                                                                     |
| CO1                      | Knows the concept HDI, Per capita income and poverty.                                                                                                                                                                                                                                                                                            |
| CO2                      | Understand the poverty and inequality in development of developed and underdeveloped countries                                                                                                                                                                                                                                                   |
| CO3                      | Understand the theories of Economic Growth and Development                                                                                                                                                                                                                                                                                       |

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| CO4                      | Knows the population growth and Economic Development.                                                                                                                                                         |
| CO5                      | Understand the various models and theories of Population growth.                                                                                                                                              |
| <b>:Course Code 3003</b> | <b>Modern Banking EC</b>                                                                                                                                                                                      |
|                          | Know the structure, role and performance of Modern Banking                                                                                                                                                    |
| CO1                      | Understand the nature, types, significance and performance of Non-banking financial companies in India.                                                                                                       |
| CO2                      | Understand the nature and role and types of International Market                                                                                                                                              |
| CO3                      | Understand the concept of Money and Capital market.                                                                                                                                                           |
| CO4                      | Understand the recent trends in capital and Money Market nationally and internationally.                                                                                                                      |
| <b>:Course Code 3004</b> | <b>Demography EC</b>                                                                                                                                                                                          |
|                          | it 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                                                |
| CO1                      | It also enlightens the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques                                                  |
| CO2                      | In recent times, gender characteristics of the population have acquired importance and these have also been included in the framework of study                                                                |
| CO3                      | Migration and urbanization are the Characteristics of structural change taking place in a society. It studies the essential to understand the dynamics of this change                                         |
| <b>:Course Code 4001</b> | <b>Macro Economics Analysis II EC</b>                                                                                                                                                                         |
|                          | It helps to understand systemic facts and modern theoretical developments for experiential analysis.                                                                                                          |
| CO1                      | It defines the definitions of Money and Liquidity, the debate relating to money, liquidity theory and The quantity and components of money stock in India and broad trend in them.                            |
| CO2                      | Understand the Demand for money and price in which neo classical theory, Keynes's theory, Friedman's Theory are important besides the fishers QTM theory and the Baumol Tobin etc.                            |
| CO3                      | It also understand the Theories of Interest Rates, Monetary Policy and Macro economy as well ,the Money Supply and Inflation which inculcate the Goals Targets, Indicators and instruments of Monetary Policy |

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| <b>:Course Code 4002</b>   | <b>Growth &amp; Development II EC</b>                                                                                                                                                |
|                            | Knows the role of Agriculture in Development of country.                                                                                                                             |
| CO1                        | Knows the role of Industry in Lower developed Countries.                                                                                                                             |
| CO2                        | Understand the growth and Development Policies.                                                                                                                                      |
| CO3                        | Understand the concept 'Trade as a Engine of Growth'                                                                                                                                 |
| CO4                        | Knows the role of government in Markets in development process.                                                                                                                      |
| <b>:Course Code 4003</b>   | <b>Research Methodology EC</b>                                                                                                                                                       |
|                            | Comprehend the Basic knowledge of research methodology intend to consolidate and deepen their understanding of various branches of Economics                                         |
| CO1                        | Understand the meaning and the types of research, defines the Social Science. Research- Meaning Objectives, Nature, Importance, utility, Limitations, its difficulties.              |
| CO2                        | Understand the research techniques in which the data collection sources and the sampling techniques are measure points of research.                                                  |
| CO3                        | Understand the data analysis techniques and in which Classification and Tabulation., Graphs and Diagrams. Measures of Central Tendencies. Mean, median mode having properly defined. |
| CO4                        | Comprehend the knowledge of Stages of report writing. Computerized data processing like Presentation - Power Point, Excel and acquires the essential global knowledge.               |
| <b>:Course Code 4004</b>   | <b>Rural Development EC</b>                                                                                                                                                          |
|                            | Understand the concept, Scope, Objectives and Importance of Rural Development.                                                                                                       |
| CO1                        | Know the Structure of Rural Economy of India.                                                                                                                                        |
| CO2                        | Know the various aspects of Rural Development.                                                                                                                                       |
| CO3                        | Know the problems of Rural Development                                                                                                                                               |
| CO4                        | Understand the objectives of Rural Development Programs.                                                                                                                             |
| CO5                        | Know the critical assessment of Rural Development programs as a part of inclusive and sustainable growth.                                                                            |
| <b><u>BA Economics</u></b> |                                                                                                                                                                                      |
| <b>:Course Code G1</b>     | <b>FYBA- Indian Economy – Problems and Prospects</b>                                                                                                                                 |
| CO1                        | The Indian economy was introduced To the students                                                                                                                                    |
| CO2                        | To identify the problems facing commodity management and farmers' suicide and remedies.                                                                                              |
| CO3                        | To discuss the problems faced by the industry                                                                                                                                        |
| <b>:Course Code G2</b>     | <b>SYBA : Modern Banking</b>                                                                                                                                                         |
| CO1                        | To select Meaning & Definition of Bank.                                                                                                                                              |

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| CO2                                | To explain the Primary Functions-Accepting Deposits, Granting Loans & Advances.                      |
| CO3                                | To describe the Promissory Note, Bill of Exchange and Cheque - meaning, Definition & Characteristics |
| CO4                                | To perform the Co-operative banking in India                                                         |
| <b>Course Code S1</b>              | <b>SYBA : Micro Economics</b>                                                                        |
| CO1                                | To describe the Micro Economics – Meaning, Nature Scope, importance & limitations,                   |
| CO2                                | To role-play Supply Analysis                                                                         |
| CO3                                | To apply the Theory of Production                                                                    |
| CO4                                | To experiment the Thought of Amartya Sen on Welfare economics.                                       |
| <b>Course Code S2</b>              | <b>SYBA : Macro Economics</b>                                                                        |
| CO1                                | To describe the Macro Economics – Meaning, Nature Scope, importance & limitations,                   |
| CO2                                | To plan the theory National Income                                                                   |
| CO3                                | To memorize the Meaning and Features of Business Cycle                                               |
| <b>:Course Code G3</b>             | <b>TYBA : Economic Development &amp; Planning</b>                                                    |
| CO1                                | To define of Economic Development and Growth                                                         |
| CO2                                | To compare Theories of Economic Development                                                          |
| CO3                                | To describe Foreign Capital and Development                                                          |
| CO4                                | To summarize the Economic Planning- Economic, Social and Political                                   |
| <b>:Course Code S3</b>             | <b>TYBA : International Economics</b>                                                                |
| CO1                                | To describe Theories of International Trade                                                          |
| CO2                                | To explain Equilibrium and disequilibrium in balance of payments; causes and consequences            |
| CO3                                | To discuss India's Foreign Trade and Policy                                                          |
| <b>:Course Code S4</b>             | <b>TYBA : Public Finance</b>                                                                         |
| CO1                                | To describe the role of Government in an economy                                                     |
| CO2                                | To identify Sources of Public Revenue                                                                |
| CO3                                | To identify Sources of internal and external Public Debt                                             |
| CO4                                | To explain Centre-State Financial Relationship                                                       |
| <b><u>Bachelor of Commerce</u></b> |                                                                                                      |
| <b>:Course Code 104</b>            | <b>Fybcom (Business Mathematics &amp; Statistics)</b>                                                |
| CO1                                | To helpful in Banking sectors.                                                                       |
| CO2                                | To prepare for competitive examinations                                                              |
| CO3                                | To learn useful functions in business.                                                               |

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| CO4                      | To understand the basic concept of Statistics, Sampling, and also apply statistical Measures which are used to analyses the data |
| CO5                      | Classification of different measures of central tendency and variations                                                          |
| <b>:Course Code106D</b>  | <b>Consumer Protection &amp; Business Ethics</b>                                                                                 |
| CO1                      | To acquaint the students with consumer and consumer movement.                                                                    |
| CO2                      | To make the students aware about consumer rights, duties and mechanism for resolving their disputes                              |
| CO3                      | To make students aware about role of united nations and consumers' associations in protection of consumers                       |
| CO4                      | To make the students aware about laws relating to consumers                                                                      |
| CO5                      | To acquaint the students with role of Business Ethics in various functional areas                                                |
| <b>:Course Code 103</b>  | <b>FYBCOM - Business Economics (Micro)</b>                                                                                       |
| CO1                      | To explain Meaning, Nature and Scope of Business Economics- (Micro)                                                              |
| CO2                      | To describe Meaning and Importance of Revenue Concepts                                                                           |
| CO3                      | To classify Marginal Productivity theory of Distribution.                                                                        |
| <b>:Course Code 105</b>  | <b>FYBCOM- Fundamental of Banking</b>                                                                                            |
| CO1                      | To describe To the banking sector                                                                                                |
| CO2                      | To explain primary and secondary work of banks.                                                                                  |
| CO3                      | To discuss methods of sending money from the account                                                                             |
| <b>:Course Code 105</b>  | <b>Organizational Skill Development.</b>                                                                                         |
| CO1                      | To orient the students towards the concept of Organization and Modern Office.                                                    |
| CO2                      | To acquaint the students with the role of and Functions of Office Manager.                                                       |
| CO3                      | To develop the insights regarding Organizational Skills for Office Managers                                                      |
| CO4                      | To know the functioning of Modern office appliances equipments and e- format records                                             |
| <b>:Course Code 1113</b> | <b>FYB.COM Compulsory English (Text-A Pathway to success)</b>                                                                    |
| CO1                      | To develop students' interest in writing and reading literary pieces                                                             |
| CO2                      | To develop competence among the students for self-learning                                                                       |
| CO3                      | To expose students to varied cultural experiences through literature                                                             |
| CO4                      | To contribute to their overall personality development by improving their communicative and soft skills                          |
| CO5                      | To improve Writing skills                                                                                                        |
| <b>:Course Code 1137</b> | <b>FYBCOM- Additional English (Text- Gems of Prose and Poetry)</b>                                                               |

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| CO1                     | To expose students to the basics of literature and language                                                           |
| CO2                     | To prepare students to go for detailed study and understanding of literature and language                             |
| CO3                     | To introduce the basic units of language so that they become aware of the technical aspects and their practical usage |
| <b>Course Code:1521</b> | <b>FYBcom/ Name of Course/paper यशोगाथा आणि व्यावहारिक व उपयोजित मराठी</b>                                            |
| CO1                     | वाणिज्य विषयाच्या विद्यार्थ्यांना मराठीच्या व्यवहार क्षेत्राची माहिती देणे.                                           |
| CO2                     | प्रसारमाध्यमाचे स्वरूप व भाषा व्यवहार समजावून सांगणे.                                                                 |
| CO3                     | विविध लेखन प्रकारचा अभ्यास व प्रत्यक्ष लेखन करून घेणे.                                                                |
| CO4                     | कार्यालयीन भाषेची तंत्रे व कौशल्य विकसित करणे .                                                                       |
| CO5                     | लेखन कौशल्य विकसित करणे.                                                                                              |
| <b>Course Code:1123</b> | <b>FYBcom Financial Accounting</b>                                                                                    |
| CO1                     | To enable students to acquire sound knowledge of concepts                                                             |
| CO2                     | Student will understand learn method and techniques of management accounting                                          |
| CO3                     | To make the student develop competence                                                                                |
| CO4                     | Students will understand usage in managerial decision making and control                                              |
| <b>:Course Code 204</b> | <b>Business Management(SYBCOM)</b>                                                                                    |
| CO1                     | Acquainting with the knowledge of business management and various theories of management.                             |
| CO2                     | Understanding of the various functions of management                                                                  |
| CO3                     | Creation of leadership among the student and increase in decision making a liability                                  |
| CO4                     | Finding of human being problems with effective communication skills.                                                  |
| CO5                     | Increase in critical Thinking ability to handle various situations in management.                                     |
| <b>:Course Code 201</b> | <b>Business Communication(SYBCOM)</b>                                                                                 |
| CO1                     | To understand the concept, process and importance of communication.                                                   |
| CO2                     | To develop awareness regarding new trends in business communication                                                   |
| CO3                     | To provide knowledge of various media of communication                                                                |



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| CO4                     | To develop business communication skills through the application and exercises                                                                                 |
| <b>:Course Code 205</b> | <b>Elements of company law</b>                                                                                                                                 |
| CO1                     | Provide overall knowledge of Companies Act 2013 and basic concept of companies.                                                                                |
| CO2                     | Incorporation of companies in various types skill can be created in students.                                                                                  |
| CO3                     | Understanding the qualification, disqualification, role, responsibility and liability of directors in a company                                                |
| CO4                     | knowledge and practices of raising of finance and capital with minimum ratio                                                                                   |
| CO5                     | Identify the various options available to directors, shareholder, and creditors when the company insolvent.                                                    |
| <b>:Course Code 202</b> | <b>Corporate Accounting</b>                                                                                                                                    |
| CO1                     | Awareness about Corporate Accounting in conformity with the conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards. |
| CO2                     | Study the conceptual aspect of corporate accounting                                                                                                            |
| CO3                     | Developing skills of Computerized Accounting                                                                                                                   |
| <b>:Course Code 206</b> | <b>Cost and Works Accounting</b>                                                                                                                               |
| CO1                     | Getting the knowledge of basic cost concepts                                                                                                                   |
| CO2                     | Study various elements of cost                                                                                                                                 |
| CO3                     | Preparation of cost sheet                                                                                                                                      |
| CO4                     | Calculating material and labour cost                                                                                                                           |
| <b>:Course Code 203</b> | <b>S.Y.B.COM.- Business Economics (Macro)</b>                                                                                                                  |
| CO1                     | To describe the economics and monetary system, and analyze the role of money, credit, and economical policy.                                                   |
| CO2                     | To explain understand the difference between macro economics and micro economics                                                                               |
| CO3                     | To identify the importance of Cambridge equations and Value of money                                                                                           |
| <b>:Course Code 206</b> | <b>S.Y.B.COM-Indian Banking System 1</b>                                                                                                                       |
| CO1                     | To create the awareness among the student of indian banking system                                                                                             |
| CO2                     | To enable student understand the reforms and other development in the Indian banking                                                                           |
| CO3                     | To provide insight into the function and role of Reserve Bank of India                                                                                         |
| <b>:Course Code 302</b> | <b>T.Y.B.COM Advanced Accounting</b>                                                                                                                           |
| CO1                     | Getting the knowledge of various accounting concepts                                                                                                           |

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| CO2                      | Enable the students to get the knowledge about accounting procedure, methods and techniques                                                    |
| CO3                      | Getting practical knowledge about computerized accounting.                                                                                     |
| <b>:Course Code 105</b>  | <b>T.Y.B.COM Business Regulatory Framework (Mercantile Law)</b>                                                                                |
| CO1                      | To acquaint students with the basic concepts, terms & provisions of Mercantile and Business Laws.                                              |
| CO2                      | To develop the awareness among the students regarding these laws affecting business, trade and commerce.                                       |
| <b>Course Code306</b>    | <b>T.Y.B.COM Cost and Works Accounting III</b>                                                                                                 |
| CO1                      | To impart knowledge regarding costing techniques                                                                                               |
| CO2                      | To provide training as regards concepts, procedures, and legal Provisions of cost audit                                                        |
| <b>Course Code: 305</b>  | <b>T.Y.B.Com.- Cost and Works Accounting Paper II</b>                                                                                          |
| CO1                      | Students will be able to classify types of overheads & accounting of overheads and apply apportionment and reapportionment of overheads        |
| CO2                      | Students will be able to explain methods of overhead absorption                                                                                |
| CO3                      | Recognize purpose and benefits of activity-based costing & discuss various methods of costing                                                  |
| CO4                      | Analyze and evaluate procedure of contract costing.                                                                                            |
| CO5                      | Apply service costing methods in real life.                                                                                                    |
| <b>Course Code304</b>    | <b>T.Y.B.COM Auditing And Taxation</b>                                                                                                         |
| CO1                      | Know the concept of auditing and role responsibilities, liabilities of the auditor.                                                            |
| CO2                      | Understanding the concept of vouching valuation and verification of asset and liabilities                                                      |
| CO3                      | Understanding of How the audit is carried out in computerized environment during the recent era                                                |
| CO4                      | Impart the knowledge of the provisions of the Income me tax law and practice and make student compute the Income under various heads of Income |
| CO5                      | Acquire the knowledge of provisions of Salary, House property, Capital Gain, Business and Other sources Income                                 |
| CO6                      | Calculate the total income and make deduction to calculate the tax payable for relevant Assessment year.                                       |
| <b>:Course Code 305B</b> | <b>T.Y.B.COM. Banking &amp; Finance II Financial Markets and Institutions in India.</b>                                                        |
| CO1                      | To describe Role of Financial System in Economic development                                                                                   |
| CO2                      | To explain Indian Capital Market                                                                                                               |

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| CO3                       | To perform Investment Institutions in India                                                                               |
| <b>:Course Code306B</b>   | <b>T.Y.B.COM. Banking &amp; Finance III Banking Law and Practices in India.</b>                                           |
| CO1                       | To describe The Banking Regulation Act                                                                                    |
| CO2                       | To underline Collecting Banker's - Duties and Rights                                                                      |
| CO3                       | To discuss Relationship Banker and Customer                                                                               |
| CO4                       | To apply Steps in Project Appraisal - Economic, Technical, Managerial, Operational and Financial Aspects.                 |
| <b>:Course Code306B</b>   | <b>T.Y.B.COM. International Economics</b>                                                                                 |
| CO1                       | To study the theory of international trade                                                                                |
| CO2                       | Student will understand regional and International Co-operation                                                           |
| CO3                       | To understand foreign exchange market                                                                                     |
| CO4                       | To highlight the trends and challenges faced by nation in a challenging environment                                       |
| <b><u>MCOM Part 1</u></b> |                                                                                                                           |
| <b>Course Code:101</b>    | <b>Management Accounting<br/>Course Code</b>                                                                              |
| CO 1                      | To enable students to acquire sound Knowledge of concepts.                                                                |
| CO 2                      | Students will understand Learn methods and techniques of management accounting                                            |
| CO 3.                     | To make the students develop competence                                                                                   |
| CO 4.                     | Students will understand usage in managerial decision making and control.                                                 |
| CO 5                      | Understand Ratio Analysis and types of ratios                                                                             |
| <b>Course Code : 102</b>  | <b>Strategic Management</b>                                                                                               |
| CO 1                      | Students will understand Dimensions and Components of Strategic Management                                                |
| CO 2.                     | To understand Strategic Plan and Strategic Alternatives                                                                   |
| CO 3.                     | Students will understand various Functional of Strategy                                                                   |
| CO 4                      | To understand Strategic Planning and its implementation                                                                   |
| CO 5.                     | Students will understand Strategic Choices                                                                                |
| <b>Course Code : 107</b>  | <b>Advanced Cost Accounting</b>                                                                                           |
| CO 1.                     | Students will understand acquaint the students with the significance of Cost Accounting in Global Competitive environment |

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| CO 2                     | Students will understand learn application of different methods of costing in Manufacturing and Service Industry    |
| CO 3                     | Students will understand Elements of Cost                                                                           |
| CO 4.                    | Understand Methods of Costing                                                                                       |
| <b>Course Code : 108</b> | <b>Costing Techniques and Responsibility Accounting</b>                                                             |
| CO 1                     | To equip the students for designing and implementing cost control, cost reduction program and different cost system |
| CO 2                     | To understand Relevant Cost Accounting Standard are to be studied–Advanced Techniques of Costing                    |
| CO 4                     | Understand Budgeting & Budgetary Control                                                                            |
| <b>Course Code : 115</b> | <b>Legal Framework of Banking</b>                                                                                   |
| CO 1                     | To understand acquaint the students with legal framework in which the Indian banking is working today.              |
| CO 2                     | Students will understand aware about the latest developments in the field of banking law                            |
| CO 3                     | To enable the students to understand modern banking practices                                                       |
| CO 4                     | Students will understand establish a link between the legal provisions and the practical aspects of banking         |
| CO 5.                    | Students will understand Banking Regulation Act, 1949 And Reserve Bank of India Act, 1934                           |
| <b>Course Code : 116</b> | <b>Central Banking</b>                                                                                              |
| CO 1                     | Understand study the functions of central bank                                                                      |
| CO 2                     | Students will understand monetary policy and its instruments                                                        |
| CO 3                     | To enable the students to understand Origin and evolution of central banking                                        |
| CO 4                     | Understand the student's functions of Reserve Bank of India                                                         |
| CO 5                     | Students will understand Non-banking financial companies (NBFCs)                                                    |
| <b>Course Code : 02A</b> | <b>Industrial Economics COs</b>                                                                                     |
| CO 1                     | Students will understand basic concepts of Industrial Economics                                                     |
| CO 2                     | Understand significance and problems of Industrialization                                                           |
| CO 3                     | Students will understand impact of Industrialization on Indian Economy                                              |

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| CO 4                     | Understand Measurement of Industrial Productivity                                                                    |
| CO 5                     | Students will understand Structure and Organization of Large Industries in India                                     |
| <b>Course Code : 207</b> | <b>Application of Cost Accounting COs</b>                                                                            |
| CO 1.                    | Students will understand knowledge on advanced cost accounting practices                                             |
| CO 2.                    | Students will Relevant Cost Accounting Standard are to be Studied                                                    |
| CO 3.                    | Students will understand Cost Book Keeping and Reconciliation between Cost and Cost financial Accounts               |
| CO 4                     | Understand Product Life Cycle Costing                                                                                |
| <b>Course Code : 208</b> | <b>Cost Control and Cost System</b>                                                                                  |
| CO 1                     | To equip the students for designing and implementing cost control, cost reduction program and different cost system. |
| CO 2                     | To understand Relevant Cost Accounting Standard are to be studied.                                                   |
| CO 3                     | Students will understand Level of knowledge –Advanced                                                                |
| CO 4                     | Understand Marginal Costing, Cost Volume, Profit Analysis And Differential Costing.                                  |
| <b>Course Code : 215</b> | <b>Banking Law &amp; Practices</b>                                                                                   |
| CO 1                     | Students will understand Banker customer relationship                                                                |
| CO 2                     | Students will understand aware about the latest developments in the field of banking law                             |
| CO 3                     | To enable the students to understand modern banking practices                                                        |
| CO 4                     | Students will understand establish a link between the legal provisions and the practical aspects of banking          |
| CO 5.                    | Students will understand Prevention of Money Laundering Act, 2002                                                    |
| <b>Course Code: 216</b>  | <b>Monetary Policy</b>                                                                                               |
| CO 1                     | Understand of the Reserve Bank of India Concept of High-powered money Recommendations                                |
| CO 2.                    | Students will understand monetary policy and its instruments                                                         |
| CO 3                     | To enable the students to understand Mechanism and effectiveness instruments                                         |
| CO 4.                    | Understand the student's R.B.I. and rural credit                                                                     |

**MCOM Part 2**

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| <b>Course Code : 301</b>  | <b>Business Finance</b>                                                                                                                           |
| CO 1                      | Students will understand acquire sound Knowledge of concepts, nature and structure of business finance                                            |
| CO 2                      | Understand the Strategic financial planning                                                                                                       |
| CO 3                      | Students will understand corporate securities                                                                                                     |
| CO 4                      | Students will understand long term and short term loan                                                                                            |
| <b>Course Code : 302</b>  | <b>Research Methodology for Business</b>                                                                                                          |
| CO 1                      | Students will understand with the areas of Business Research Activities.                                                                          |
| CO 2                      | Understand enhance capabilities of students to conduct the research in the field of business and social sciences                                  |
| CO 3                      | Students will understand in developing the most appropriate methodology for their research studies.                                               |
| CO 4                      | Students will make them familiar with the art of using different research methods and techniques                                                  |
| CO 5                      | Students will understand Data Collection, Primary Data and Secondary Data, Measurement & Scaling, Processing of Data as well as Types of Analysis |
| <b>Course Code : 307</b>  | <b>Cost Audit</b>                                                                                                                                 |
| CO 1                      | Students will understand adequate knowledge on Cost Audit Practices.                                                                              |
| CO 2                      | Understand the Level of Knowledge –Advanced                                                                                                       |
| CO 3                      | Students will understand Cost Auditor                                                                                                             |
| CO 4                      | Understand Planning & Execution and Cost Audit Report                                                                                             |
| CO 5                      | Students will understand Reconciliation and Numerical Problems on Cost Audi                                                                       |
| <b>Course Code : 308</b>  | <b>Management Audit</b>                                                                                                                           |
| CO 1.                     | Students will understand knowledge of the techniques                                                                                              |
| CO 2.                     | Understand methods of planning and executing the Management Audit                                                                                 |
| CO 3.                     | Students will understand Level of Knowledge: Advanced                                                                                             |
| CO 4.                     | Understand Different Areas of Management Audit                                                                                                    |
| CO 5.                     | Understand Concept of Operational Audit                                                                                                           |
| <b>Course Code -: 315</b> | <b>Foreign Exchange</b>                                                                                                                           |
| CO 1                      | Understanding of various aspects of foreign exchange market.                                                                                      |

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| CO 2.                     | Students will understand with financing of foreign trade.                                             |
| CO 3.                     | Students will understand of exchange rate mechanism and factors affecting exchange rates              |
| CO 4.                     | Understanding awareness of development in foreign exchange market                                     |
| CO 5.                     | Students will understand Foreign Exchange Market in India                                             |
| <b>Course Code -: 316</b> | <b>International Finance</b>                                                                          |
| CO 1                      | Students will understand of International Financial market                                            |
| CO 2.                     | Understand acquaint the students with International monetary system.                                  |
| CO 3.                     | Understand of operations of international Financial Institutions                                      |
| CO 4.                     | Students will understand International Debt and Equity Markets                                        |
| CO 5.                     | Students will understand International Financial Institutions                                         |
| <b>Course Code -: 401</b> | <b>Capital Market and Financial Services.</b>                                                         |
| CO1                       | Students will understand acquire sound Knowledge of concepts, nature and structure of capital market. |
| CO2                       | Understand the Stock Market and Capital market instruments                                            |
| CO3                       | Students will understand Financial Services                                                           |
| CO4                       | Students will understand Securities and Exchange Board of India                                       |
| <b>Course Code :402A</b>  | <b>Industrial Economic Environment</b>                                                                |
| CO1                       | Students will understand with the basic concepts of Industrial Finance                                |
| CO2                       | Understand the effects of New Economic Policy                                                         |
| CO3                       | Students will understand impact of Labor reforms on Industries                                        |
| CO4                       | Students will understand Industrial Growth and Policy in India                                        |
| CO5                       | Understand the Effects of New Economic Policy (1991)                                                  |

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| <b>Course Code : 407</b> | <b>Recent Advances in Cost Auditing and Cost System</b>                                           |
| CO1                      | Students will understand knowledge on recent advances in cost accounting and cost systems.        |
| CO2                      | Understand the Level of Knowledge–Advanced                                                        |
| CO3                      | Students will understand Cost Accounting Standards (CAS)                                          |
| CO4                      | Understand Planning & Execution of Audit.                                                         |
| CO5                      | Students will understand Enterprise Resource Planning (ERP)                                       |
| <b>Course Code : 415</b> | <b>Recent Advances in Banking and Finance in India</b>                                            |
| CO1                      | Understand new developments in banking industry                                                   |
| CO2                      | Students will understand abreast with the innovative practices introduced in day-to-day banking   |
| CO3                      | Students will understand of Recent Developments in Banking                                        |
| CO4                      | Understand Core Banking                                                                           |
| CO5                      | Students will understand Commercial paper and certificate of deposits                             |
| <b>BCS</b>               |                                                                                                   |
| <b>:Course Code 101</b>  | <b>F.Y.B.Sc (Comp.Sci.)<br/>Course Name: Problem Solving Using Computers and 'C' Programming</b>  |
| CO1                      | Develop Problem Solving abilities using computers                                                 |
| CO2                      | Understand basic principles of programming                                                        |
| CO3                      | Develop skills for writing programs using 'C'                                                     |
| CO4                      | Familiar with pointers and reference parameter                                                    |
| CO5                      | Familiar with using text file input/output                                                        |
| <b>:Course Code 101</b>  | <b>Discrete mathematics</b>                                                                       |
| CO1                      | Power of mathematical ideas and tools, know how to use them by modeling, solving and interpreting |
| CO2                      | Clear a concept of logic lattice and Boolean algebra                                              |
| CO3                      | Explain relation statements rule and examples of counting principles, its application             |



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| CO4                     | Explain and application of graph, operation on graphs                                                                                                                                                                                                                      |
| CO5                     | Clear concept of trees and its type with application base examples                                                                                                                                                                                                         |
| <b>:Course Code 102</b> | <b>ALGEBRA AND CALCULUS</b>                                                                                                                                                                                                                                                |
| CO1                     | Select relevant material in industry by analyzing its physical properties.                                                                                                                                                                                                 |
| CO2                     | To introduce binary operation group                                                                                                                                                                                                                                        |
| CO3                     | To calculate GCD&LCM and define and explain properties of divisibility                                                                                                                                                                                                     |
| CO4                     | Apply to solve differentiation by using continuous function                                                                                                                                                                                                                |
| CO5                     | Using nth derivatives solve examples by Leibnitz's theorem                                                                                                                                                                                                                 |
| CO6                     | Apply to solve liner system of equation.                                                                                                                                                                                                                                   |
| <b>:Course Code</b>     | <b>Statistical Methods I</b>                                                                                                                                                                                                                                               |
| CO1                     | To understand basic tools and methods required for data analysis.                                                                                                                                                                                                          |
| CO2                     | To understand how to apply required techniques in computer based applications                                                                                                                                                                                              |
| CO3                     | To understand graphical methods for data representation.                                                                                                                                                                                                                   |
| CO4                     | Know the relationship between data elements                                                                                                                                                                                                                                |
| CO5                     | Apply statistical methods in the field of data mining                                                                                                                                                                                                                      |
| <b>:Course Code</b>     | <b>Statistical Methods 2</b>                                                                                                                                                                                                                                               |
| CO1                     | Improve logical thinking.                                                                                                                                                                                                                                                  |
| CO2                     | To know statistical inferential methods.                                                                                                                                                                                                                                   |
| CO3                     | To know probability and the mathematical foundation of statistics                                                                                                                                                                                                          |
| CO4                     | Know statistical modeling and its limitations                                                                                                                                                                                                                              |
| CO5                     | Analyze data using statistical computing tools and software                                                                                                                                                                                                                |
|                         | <b>SY B.Sc.</b>                                                                                                                                                                                                                                                            |
| <b>:Course Code 211</b> | <b>Applied Algebra SY B.Sc. (COMPUTRE SCIENCE)</b>                                                                                                                                                                                                                         |
| CO1                     | Relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.                                                                                                                    |
| CO2                     | Adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences                                                                                                                                                                     |
| CO3                     | Development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment<br>Enabling students to develop a positive attitude towards mathematics as an interesting |
| CO4                     | Clear concept General Vector Spaces, Eigen values and Eigen vectors, Linear Transformations, Groups and Coding                                                                                                                                                             |

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| <b>:Course Code</b>     | <b>Numerical Analysis</b>                                                                                               |
| CO1                     | Use of numerical analysis is to provide efficient methods for obtaining numerical answers to problems.                  |
| CO2                     | Perform an error analysis for a given numerical method.                                                                 |
| CO3                     | Derive appropriate numerical methods to solve algebraic and transcendental equations.                                   |
| CO4                     | Evaluate a derivative at a value using an appropriate numerical method.                                                 |
| CO5                     | Calculate a definite integral using an appropriate numerical method                                                     |
| <b>:Course Code</b>     | <b>Data Structure using C</b>                                                                                           |
| CO1                     | Choose appropriate data structure as applied to specified problem definition.                                           |
| CO2                     | Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures             |
| CO3                     | Describe and explain the time complexity for inserting, finding, and deleting items to/from the various data structures |
| CO4                     | Able to use linear and nonlinear data structures like stacks, queues, linked list etc<br>.                              |
| <b>:Course Code</b>     | <b>Relational Database Management System</b>                                                                            |
| CO1                     | To Understand fundamental concepts of RDBMS (PL/PgSQL)                                                                  |
| CO2                     | To understand principles of databases                                                                                   |
| CO3                     | To Understand database management operations                                                                            |
| <b>:Course Code 221</b> | <b>Object oriented programming using C++</b>                                                                            |
| CO1                     | Describe the procedural and object-oriented paradigm with concepts of streams, classes, functions, data and objects.    |
| CO2                     | Understand dynamic memory management techniques using pointers, constructors, destructors                               |
| CO3                     | Describe the concept of function overloading, operator overloading, virtual functions and polymorphism                  |
| CO4                     | Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming |
| CO5                     | Demonstrate the use of various OOPs concepts with the help of programs                                                  |
| <b>:Course Code</b>     | <b>Software Engineering</b>                                                                                             |
| CO1                     | The ability to analyze, design, verify, validate, implement, apply, and maintain software systems                       |
| CO2                     | A general understanding of software process models such as the waterfall and evolutionary models                        |
| CO3                     | Understanding of software requirements and the SRS documents                                                            |

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| CO4                     | Understanding of the role of project management including planning, scheduling, risk management                                                                                                                                                                            |
| CO5                     | Ability to develop, maintain and evaluate large scale software systems                                                                                                                                                                                                     |
| <b>:Course Code 221</b> | <b>Computational Geometry</b>                                                                                                                                                                                                                                              |
| CO1                     | Relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.                                                                                                                    |
| CO2                     | Adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences                                                                                                                                                                     |
| CO3                     | Development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment<br>Enabling students to develop a positive attitude towards mathematics as an interesting |
| CO4                     | Clear concept Two dimensional transformations, Three dimensional transformations, Plane Curves, Space curves                                                                                                                                                               |
| <b>:Course Code</b>     | <b>Operation Research</b>                                                                                                                                                                                                                                                  |
| CO1                     | Know the various optimization techniques.                                                                                                                                                                                                                                  |
| CO2                     | Formulate and solve problems as optimization techniques                                                                                                                                                                                                                    |
| CO3                     | Develop linear programming (LP) models                                                                                                                                                                                                                                     |
| CO4                     | Set up decision models and use some solution methods for optimization problems                                                                                                                                                                                             |
| CO5                     | Propose the best strategy using decision making methods under game theory                                                                                                                                                                                                  |
|                         | <b>T.Y.B.Sc(Comp.Sci.)</b>                                                                                                                                                                                                                                                 |
| <b>:Course Code 331</b> | <b>Systems Programming</b>                                                                                                                                                                                                                                                 |
| CO1                     | To understand the design structure of a simple editor                                                                                                                                                                                                                      |
| CO2                     | To understand the design structure of Assembler and macro processor                                                                                                                                                                                                        |
| CO3                     | To understand the mechanism of Systems Programming language                                                                                                                                                                                                                |
| CO4                     | To understand Complexity of Operating system as a software.                                                                                                                                                                                                                |
| CO5                     | To acknowledge various components of system programs                                                                                                                                                                                                                       |
| <b>:Course Code 332</b> | <b>Theoretical Computer Science</b>                                                                                                                                                                                                                                        |
| CO1                     | Understand the complex logic using automata theory as well as the theory of language.                                                                                                                                                                                      |
| CO2                     | Able to model computation using finite automata, and characterize simple languages with regular expressions and context-free grammars.                                                                                                                                     |
| CO3                     | Students able how the Turing machine models everything that can                                                                                                                                                                                                            |

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|                         | be computed using a real computer and that there are well defined problems that cannot be solved with any algorithm |
| CO4                     | Understand the relationship between the expressiveness of the models of computation studied during the course       |
| CO5                     | Exposed to some basic concepts of computational complexity theory such as reductions between problems               |
| <b>:Course Code 333</b> | <b>Computer Network-I</b>                                                                                           |
| CO1                     | Understands different types of networks, various topologies and application of networks                             |
| CO2                     | Learns types of addresses, data communication                                                                       |
| CO3                     | Acquires knowledge the concept of networking models, protocols, functionality of each layer.                        |
| CO4                     | Learn basic networking hardware and tools                                                                           |
| CO5                     | Get knowledge of overall mechanism of networking.                                                                   |
| <b>:Course Code 335</b> | <b>Programming in java –I</b>                                                                                       |
| CO1                     | Implement object oriented programming concepts                                                                      |
| CO2                     | Implement object oriented programming concepts                                                                      |
| CO3                     | Use and create package and interfaces in a Java program                                                             |
| CO4                     | Use graphical user interface in Java programs                                                                       |
| CO5                     | Create applets                                                                                                      |
| <b>:Course Code 336</b> | <b>Object Oriented Software Engineering</b>                                                                         |
| CO1                     | Develop a working understanding of object -oriented analysis and design processes, Construction.                    |
| CO2                     | Understands of the Classes, Attributes and Relationships and develop the basic structure model                      |
| CO3                     | Understands of the Advanced Classes, Interfaces, packages and develop Advanced structural Model i.e. Object Diagram |
| CO4                     | Understands Use Case, Activity, Sequence, State Chart Interaction Scenarios and Draw a respective diagram.          |
| CO5                     | Develop an understanding of the application of OOAD practices from a software project management Perspective        |
| <b>:Course Code 341</b> | <b>Operating system</b>                                                                                             |
| CO1                     | To understand an environment of computer system                                                                     |
| CO2                     | Learning the working mechanism of operating system                                                                  |
| CO3                     | Importance of operating system                                                                                      |
| CO4                     | Develop architecture for creating new system software                                                               |
| CO5                     | To know about various methods of operating system management                                                        |
| <b>:Course Code 342</b> | <b>Compiler Construction</b>                                                                                        |
| CO1                     | Students will be able to understand the principles and techniques                                                   |

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|                         | used to perform translation and the fundamental concepts of translator construction                                                                           |
| CO2                     | Understand the various phases of a compiler and to develop skills in designing a compiler                                                                     |
| CO3                     | Students can use software tools and techniques which are applicable both to compilers and the implementation of system utility routines, command interpreters |
| CO4                     | To understand issues related to memory allocation                                                                                                             |
| CO5                     | To constructs compilers.                                                                                                                                      |
| <b>:Course Code 343</b> | <b>Computer Network-II</b>                                                                                                                                    |
| CO1                     | Basic Networking concepts                                                                                                                                     |
| CO2                     | Understand wired and wireless networks, its types, functionality of layer                                                                                     |
| CO3                     | Understand importance of network security and cryptography                                                                                                    |
| CO4                     | Learns how data flows in the network                                                                                                                          |
| CO5                     | Various social issues of network security.                                                                                                                    |
| <b>:Course Code 345</b> | <b>Programming in java</b>                                                                                                                                    |
| CO1                     | Demonstrate approaches for performance and effective coding                                                                                                   |
| CO2                     | Write multi-threaded Java applications                                                                                                                        |
| CO3                     | Update and retrieve the data from the databases using SQL                                                                                                     |
| CO4                     | Develop server-side programs in the form of Servlets and JSP                                                                                                  |
| CO5                     | Develop Java client/server applications                                                                                                                       |
| <b>:Course Code 346</b> | <b>Computer Graphics</b>                                                                                                                                      |
| CO1                     | Identify and explain the core concepts of computer graphics.                                                                                                  |
| CO2                     | Understand how graphics objects are represented in Computer                                                                                                   |
| CO3                     | Understand how graphics system in a computer supports presentation of graphics information                                                                    |
| CO4                     | Understand how to manipulate graphics object by applying different transformations                                                                            |
| CO5                     | Apply graphics programming techniques to design and create computer graphics scenes                                                                           |
| CO6                     | To provides the programmer's perspective of working of computer graphics                                                                                      |
| CO7                     | Analyze the fundamentals of animation, virtual reality, underlying technologies and principles                                                                |

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| <b>Electronics</b>      |                                                                                                                                     |
| <b>:Course Code 101</b> | <b>Principles of Analog Electronics</b>                                                                                             |
| CO1                     | Identify, categorize, and use the basic circuit elements in simple circuits. Apply ohm's law, KVL/KCL to analyze simple circuits.   |
| CO2                     | Perform circuit analysis of linear dc circuits and simplify them using network theorems                                             |
| CO3                     | Understand the basics of diodes, transistors and their applications in day today life. Perform analysis of amplifiers based on BJT  |
| CO4                     | Understand basics of JFET and MOSFET and use them to build some basic applications                                                  |
| <b>:Course Code 102</b> | <b>Principles of Digital Electronics</b>                                                                                            |
| CO1                     | Know various number systems and codes used in digital electronics and perform inter conversion between them.                        |
| CO2                     | Understand basics of Logic gates, Boolean algebra and able to perform logic circuit simplification using K-map and other techniques |
| CO3                     | Understand various combinational circuits such as mux, demux, code converters, adders, subtractors and their applications           |
| CO4                     | Understand sequential circuits such as flip flop, counter, shift registers and their applications                                   |
| CO5                     | Know and understand integrated circuit technologies such as TTL, ECL, CMOS and their parameters and handling precautions            |
| <b>:Course Code 103</b> | <b>Practical Course</b>                                                                                                             |
| CO1                     | Identify and test various components and use data sheets.                                                                           |
| CO2                     | Use DMM, Frequency generator and CRO for measurement and testing                                                                    |
| CO3                     | Build and test analog and digital circuits                                                                                          |
| CO4                     | Work in a group and apply theoretical knowledge and develop analytical skills                                                       |
| CO5                     | They will be able to communicate and present their knowledge                                                                        |
| <b>:Course Code 211</b> | <b>Digital System Hardware</b>                                                                                                      |
| CO1                     | Design the combinational and sequential circuits using K map technique.                                                             |
| CO2                     | Understand the memory organization                                                                                                  |

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| CO3                     | Expand memory vertically and horizontally.                                                                                                                      |
| CO4                     | Understand input output organization                                                                                                                            |
| CO5                     | Know CPU organization                                                                                                                                           |
| CO6                     | Understand architecture of microprocessor                                                                                                                       |
| <b>:Course Code 212</b> | <b>Analog Systems</b>                                                                                                                                           |
| CO1                     | Understand basics of various sensors.                                                                                                                           |
| CO2                     | Understand various signal conditioning circuits, draw their circuit diagrams and derive expression for output                                                   |
| CO3                     | Understand different types of ADC and DAC and draw their circuit diagrams                                                                                       |
| CO4                     | To find output of DAC.                                                                                                                                          |
| CO5                     | To draw block diagrams of analog systems and explain their working                                                                                              |
| CO6                     | Capable to build simple analog system applications                                                                                                              |
| <b>:Course Code 221</b> | <b>The 8051 Architecture, Interfacing &amp; Programming</b>                                                                                                     |
| CO1                     | Understand the architecture of Intel 8051                                                                                                                       |
| CO2                     | Identify different addressing modes and use them in programming                                                                                                 |
| CO3                     | Understand the instruction set of 8051                                                                                                                          |
| CO4                     | Write programs in assembly language and interface LED & seven segment display                                                                                   |
| CO5                     | Write programs using embedded C                                                                                                                                 |
| CO6                     | SERIAL PORT, TIMER, COUNTER, INTERRUPT programming                                                                                                              |
| CO7                     | Interface peripherals to 8051                                                                                                                                   |
| <b>:Course Code 222</b> | <b>Communication Principles</b>                                                                                                                                 |
| CO1                     | Understand basic concepts in communication and will be able to find sampling rate, channel capacity and construct hamming code.                                 |
| CO2                     | Explain various modulation techniques and draw waveforms, constellation diagram and vector diagram.                                                             |
| CO3                     | Explain features and block diagrams of various multiplexing and multiple access systems and able to compare various multiplexing and multiple access techniques |

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| CO4                    | Understand basic concepts of wireless communication                           |
| CO5                    | Understand basic concepts of antenna and parameters                           |
| CO6                    | Understand wireless communication technologies like mobile communication RFID |
| CO7                    | Compare Wi-Fi, ZIGBEE and Bluetooth technologies                              |
|                        | <b>Practical</b>                                                              |
| CO1                    | Identify components, build circuits & test them using instruments.            |
| CO2                    | Analyze results and graphs and draw conclusions.                              |
| CO3                    | Use KIEL IDE                                                                  |
| CO4                    | Write assembly and embedded C programs.                                       |
| CO5                    | To develop application using 8051 and KEIL $\mu$ vision3 IDE.                 |
| CO6                    | Work in group                                                                 |
| CO7                    | Give power point presentation                                                 |
| CO8                    | Self-study new topics and present them.                                       |
| <b><u>BBA</u></b>      |                                                                               |
| <b>Course Code 101</b> | <b>Modern operating Environment and MS Office</b>                             |
| CO1                    | Knowledge of Basic Computer with operating system and Networking              |
| CO2                    | Demonstrate the basic mechanics of creating word documents for office use.    |
| CO3                    | Demonstrate the use of basic functions and formulas.                          |
| CO4                    | Demonstrate introductory formatting techniques and presentation styles        |
| CO5                    | Demonstrate introductory techniques of database.                              |
| <b>Course Code 103</b> | <b>Principles of Programming and Algorithms</b>                               |
| CO 1                   | To understand the fundamental syntax & computer programs                      |
| CO 2                   | This course presents the salient feature in programming Lang                  |
| CO 3                   | Apply the concept of algorithm efficiency                                     |
| <b>Course Code</b>     | <b>Procedure Oriented Programming using ‘C’</b>                               |



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| CO1                     | Understanding a functional hierarchical code organization.                                                                                                                      |
| CO2                     | Ability to define and manage data structures based on problem subject domain                                                                                                    |
| CO3                     | Understanding a defensive programming concept. Ability to handle possible errors during program execution.                                                                      |
| <b>Course Code 202</b>  | <b>Database Management Systems</b>                                                                                                                                              |
| CO1                     | To understand what is the relational model.                                                                                                                                     |
| CO2                     | To understand the basics of SQL and construct queries using SQL                                                                                                                 |
| CO3                     | To be familiar with the relational database theory, and be able to write relational algebra expressions for queries                                                             |
| <b>:Course Code 204</b> | <b>Computer Application in Statistics</b>                                                                                                                                       |
| CO 1                    | To understand the power of excel spreadsheet in computing summary statistics.                                                                                                   |
| CO 2                    | To understand the concept of various measures of central tendency and variation and Their importance in business.                                                               |
| CO 3                    | To understand the concept of probability, probability distributions and simulations in business world and decision making.                                                      |
| CO 4                    | Know the various Simulation Techniques                                                                                                                                          |
| CO 5                    | To understand basic terms in the area of business calculus                                                                                                                      |
| <b>:Course Code 104</b> | <b>Business Communication Skill</b>                                                                                                                                             |
| CO1                     | To improve various skills such as linguistic, non-linguistic and Paralinguistic skills.                                                                                         |
| CO2                     | To develop an integrative approach where reading, writing, oral and speaking components are used together to enhance the students' ability to communicate and write effectively |
| CO3                     | To create awareness among student about Methods and Media of communication.                                                                                                     |
| CO4                     | Analyses and preparation of reports & minutes of meeting.                                                                                                                       |
| CO5                     | Described different forms of communication, its importance & need–Fax, E-mail etc.                                                                                              |
| <b>Course Code 205</b>  | <b>E-commerce</b>                                                                                                                                                               |
| CO1:                    | Realize the problems involved in designing and building E-commerce systems                                                                                                      |
| CO2:                    | Understand the need to design                                                                                                                                                   |

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| CO3                     | Ensure that the implementation of a design is adequately tested to ensure that the completed E-commerce system meets the specifications |
| CO4:                    | Aware of the principles and practice to the design and development of E-commerce systems                                                |
| CO5                     | Be able to apply these principles in practice.                                                                                          |
|                         | <b>SYBBA</b>                                                                                                                            |
| <b>:Course Code 301</b> | Relational database management System                                                                                                   |
| CO1                     | Students will have a broad understanding of database concepts and database management system software                                   |
| CO2                     | Students will be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBM |
| CO3                     | Students will be able to write a program (PL/SQL block) that interacts with DBMS server.                                                |
| CO4                     | Understand basic transaction processing concepts                                                                                        |
| CO5                     | Understand the concept of recovery management.                                                                                          |
| <b>:Course Code</b>     | <b>Operating system</b>                                                                                                                 |
| CO1                     | Concepts of system programming.                                                                                                         |
| CO2                     | Services provided by operating system.                                                                                                  |
| CO3                     | Understands scheduling concepts                                                                                                         |
| CO4                     | Understands structure of the system                                                                                                     |
| CO5                     | Learns processes and memory management concept                                                                                          |
| <b>:Course Code</b>     | <b>Business Mathematics</b>                                                                                                             |
| CO1                     | Apply different quantitative models in solving business problems.                                                                       |
| CO2                     | To describe mathematical relations and functions used in business                                                                       |
| CO3                     | To create simple problem in the form of optimization tool.                                                                              |
| CO4                     | Know the various optimization techniques.                                                                                               |

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| CO5                     | To understand basic terms in the area of business calculus and financial mathematics                                                                          |
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| <b>:Course Code 402</b> | <b>Programming in Visual Basic</b>                                                                                                                            |
| CO1                     | Student will be able to design, create, build, and debug Visual Basic applications.                                                                           |
| CO2.                    | Explore Visual Basic's Integrated Development Environment (IDE) and implement syntax rules in Visual Basic programs                                           |
| CO3                     | Write and apply procedures, sub-procedures, and functions to create manageable code.                                                                          |
| CO4                     | Create one and two dimensional arrays for sorting, calculating, and displaying of data.                                                                       |
| CO5                     | Create windows applications using forms, controls, and events                                                                                                 |
| CO6                     | Develop database application using data controls                                                                                                              |
|                         | <b>Software Engineering</b>                                                                                                                                   |
| CO1                     | The ability to analyze, design, verify, validate, implement, apply, and maintain software systems                                                             |
| CO2                     | A general understanding of software process models such as the waterfall and evolutionary models                                                              |
| CO3                     | Understanding of software requirements and the SRS documents                                                                                                  |
| CO4                     | Understanding of the role of project management including planning, scheduling, risk management                                                               |
| CO5                     | Ability to develop, maintain and evaluate large-scale software systems                                                                                        |
|                         | <b>TYBBA</b>                                                                                                                                                  |
| <b>:Course Code 501</b> | <b>Programming in Java</b>                                                                                                                                    |
| CO1                     | Understand programming language concepts, particularly Java and object-oriented concepts. Create and use Classes and objects from predefined class libraries. |
| CO2                     | Write, debug, and document well-structured Java applications                                                                                                  |
| CO3                     | Understand and use the behavior of primitive data types, object references and arrays                                                                         |
| CO4                     | Apply decision and iteration control structures to implement algorithms                                                                                       |

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| CO5                     | Implement interfaces, abstract classes & methods, inheritance, and polymorphism as programming techniques, packages, apply exceptions handling, applet, swing etc |
| <b>:Course Code 502</b> | <b>Web Technology</b>                                                                                                                                             |
| CO1                     | The students will able to develop a dynamic website.                                                                                                              |
| CO2                     | The students will connect database with PHP.                                                                                                                      |
| CO3                     | Student will create different purpose Websites.                                                                                                                   |
| CO4                     | Student will create attractive website using concept of CSS.                                                                                                      |
| CO5                     | Student will understand to create different purpose websites                                                                                                      |
| <b>:Course Code 503</b> | <b>Dot Net Programming</b>                                                                                                                                        |
| CO1                     | The students will understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.                                       |
| CO2                     | Describe the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE)                                  |
| CO3                     | The student will use VB.Net to build console and Windows applications using structured and object-based programming techniques                                    |
| CO4                     | Translate general requirements into data related solutions using database concepts                                                                                |
| CO5                     | Create applications that use ADO. NET                                                                                                                             |
| CO6                     | Use of crystal report in applications                                                                                                                             |
| <b>:Course Code 504</b> | <b>Object Oriented Software Engineering)</b>                                                                                                                      |
| CO1                     | Students can draw different diagrams that are used in the Project Development.                                                                                    |
| CO2                     | It Introduces the Object-Oriented Concepts, Overview of Model and Modeling etc                                                                                    |
| CO 3                    | At the end of the subject students will be able to present the present the project using different Techniques                                                     |
| <b>:Course Code 601</b> | <b>Advanced Web Technologies</b>                                                                                                                                  |
| CO1                     | The students will able to develop a dynamic website.                                                                                                              |

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| CO2                     | The students will connect database with PHP                                                                                                                                                           |
| CO3                     | Student will create different purpose Websites.                                                                                                                                                       |
| CO4                     | To get knowledge of connectivity of Database with PHP                                                                                                                                                 |
| CO5                     | To know about XML and Ajax.                                                                                                                                                                           |
| <b>:Course Code 602</b> | <b>Advanced Java</b>                                                                                                                                                                                  |
| CO1                     | Demonstrate approaches for performance and effective coding                                                                                                                                           |
| CO2                     | Develop Java client/server applications                                                                                                                                                               |
| CO3                     | Write multi-threaded Java applications                                                                                                                                                                |
| CO4                     | Update and retrieve the data from the databases using SQL                                                                                                                                             |
| CO5                     | Develop server-side programs in the form of Servlets and JS                                                                                                                                           |
| 603                     | Recent Trends in IT                                                                                                                                                                                   |
| CO1                     | To introduce upcoming trends in Information technology.                                                                                                                                               |
| CO2                     | To study Eco friendly software development                                                                                                                                                            |
| CO3                     | To provide the knowledge and skills required to understand recent developments in information technologies in order to provide a clear and global outlook on the evolution of products on the market. |
| <b>:Course Code 604</b> | <b>Software Testing</b>                                                                                                                                                                               |
| CO 1                    | To know various test processes and continuous quality improvement.                                                                                                                                    |
| CO 2                    | To use of various test tools                                                                                                                                                                          |
| <b>:Course Code 101</b> | <b>Principles of Programming Languages</b>                                                                                                                                                            |
| <b>CO1</b>              | Develop a greater understanding of the issues involved in programming language design and implementation                                                                                              |
| <b>CO 2</b>             | Develop thorough understanding of the compilation process                                                                                                                                             |
| <b>CO3.</b>             | Develop an in-depth understanding of functional, logic, and object-oriented programming paradigms                                                                                                     |
| <b>CO 4</b>             | To Implement several programs in languages other than the core curriculum (Java/C++)                                                                                                                  |
| <b>:Course Code 102</b> | <b>Course Outcomes: Cos: Advance Networking.</b>                                                                                                                                                      |
| CO1                     | To uncover and understand the current directions of computer networks from literature readings                                                                                                        |

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| CO2                     | To “fill-in” gaps in students’ networking knowledge                                                                                                                                                                                                                                      |
| CO3                     | To advance skills of literature searching and literature review                                                                                                                                                                                                                          |
| <b>:Course Code 103</b> | <b>Distributed Database Concepts</b>                                                                                                                                                                                                                                                     |
| CO1                     | Understands the architecture, design issues, integrity control, query processing and optimization, transactions, distributed transaction reliability                                                                                                                                     |
| CO2                     | Understands the techniques used for data fragmentation, replication, and allocation during the distributed database design process                                                                                                                                                       |
| CO3                     | Makes the Evaluation of simple strategies for executing a distributed query to select the strategy that minimizes the amount of data transfer                                                                                                                                            |
| CO4                     | Understands the two-phase commit protocol is used to deal with committing a transaction that accesses databases stored on multiple nodes.                                                                                                                                                |
| CO5                     | Understands the distributed concurrency control based on the distinguished copy techniques and the voting methods                                                                                                                                                                        |
| <b>:Course Code 104</b> | <b>Design and Analysis of Algorithms (DAA)</b>                                                                                                                                                                                                                                           |
| CO1                     | : Use the Basic Algorithm Analysis techniques and asymptotic notations                                                                                                                                                                                                                   |
| CO2                     | Describe the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. Perform algorithms that employ this paradigm. Synthesize divide-and-conquer algorithms. Derive and solve recurrences describing the performance of divide-and-conquer algorithms |
| CO3                     | Describe the greedy paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize greedy algorithms, and analyze them                                                                                                  |
| CO4                     | Explain the major graph algorithms and their analyses. Employ graphs to model engineering problems, when appropriate. Synthesize new graph algorithms and algorithms that employ graph computations as key components, and analyze them                                                  |
| CO5                     | Describe the dynamic-programming paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize dynamic-programming algorithms, and analyze them                                                                        |
| <b>:Course Code 105</b> | <b>Network Programming</b>                                                                                                                                                                                                                                                               |
| <b>CO 1</b>             | Understanding of the most important principles of how computer communication works                                                                                                                                                                                                       |
| <b>CO 2</b>             | Knowledge of simple network programming (sockets) and higher abstractions                                                                                                                                                                                                                |

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| <b>:Course Code 201</b> | <b>Digital Image Processing</b>                                                                                                                                    |
| <b>CO 1</b>             | The fundamentals of digital image processing                                                                                                                       |
| <b>CO 2</b>             | Image transform used in digital image processing                                                                                                                   |
| <b>CO 3</b>             | Image enhancement techniques used in digital image processing                                                                                                      |
| <b>CO 4.</b>            | Image restoration techniques and methods used in digital image processing                                                                                          |
| <b>CO 5</b>             | Image compression and Segmentation used in digital image processing                                                                                                |
| <b>:Course Code 202</b> | <b>Advanced Operating System</b>                                                                                                                                   |
| CO1                     | Use UNIX/LINUX OS in practical implementation.                                                                                                                     |
| CO2                     | Understands the programming interface to the Unix/Linux system - the system call interface                                                                         |
| CO3                     | Understanding of the functions of Operating Systems. It also provides provide an insight into functional modules of Operating Systems                              |
| CO4                     | Understand and implement process management, signal handling and thread management                                                                                 |
| <b>:Course Code 204</b> | <b>Data Mining and Data Warehousing</b>                                                                                                                            |
| CO 1                    | Learn to mine/dig data deeply.                                                                                                                                     |
| CO 2                    | Understands to maintain database on large scale                                                                                                                    |
| CO 3                    | Various statistical methods for mine the data                                                                                                                      |
| CO 4.                   | Creation of data warehouse                                                                                                                                         |
| CO 5                    | Data mining applications                                                                                                                                           |
|                         | <b>Artificial Intelligence</b>                                                                                                                                     |
| CO1                     | Find appropriate idealizations for converting real world problems into AI search problems formulated using the appropriate search algorithm                        |
| CO1                     | Implement and execute by hand alpha-beta search. Design good evaluation functions and strategies for game playing                                                  |
| CO3                     | Given a real world supervised learning problem, choose and implement appropriate learning algorithms such as decision trees, support vector machines, and boosting |
|                         |                                                                                                                                                                    |
| <b>:Course Code 301</b> | <b>Software metrics and project management</b>                                                                                                                     |
| CO1                     | To formally introduce leadership and management skills and techniques to enable the student                                                                        |

|                         |                                                                                                                                                                                                         |
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| CO2                     | To overcome challenges associated with software project                                                                                                                                                 |
| CO 3                    | To successfully lead such projects and programs in today's complex systems environment                                                                                                                  |
| CO4                     | To apply schedule and cost techniques                                                                                                                                                                   |
| CO 5                    | Produce specific sections of the plan used to manage the software development and maintenance efforts                                                                                                   |
| <b>:Course Code 302</b> | <b>Mobile Communication</b>                                                                                                                                                                             |
| CO1                     | Concepts of multiplexing and modulation                                                                                                                                                                 |
| CO2                     | Web browsers                                                                                                                                                                                            |
| CO3                     | Understand the issues relating to Wireless applications                                                                                                                                                 |
| CO4                     | Understand GSM architecture                                                                                                                                                                             |
| CO5                     | Technology of mobile communication                                                                                                                                                                      |
|                         |                                                                                                                                                                                                         |
| <b>:Course Code 303</b> | <b>Soft Computing</b>                                                                                                                                                                                   |
| CO1                     | Students will understand the concepts of how an intelligent system work                                                                                                                                 |
| CO2                     | Understanding the Development process using Neural Network                                                                                                                                              |
| CO3                     | Students will be able to implement Fuzzy Logic and Genetic Algorithms, which are the major building blocks of Intelligent Systems                                                                       |
| <b>:Course Code 308</b> | <b>Business Intelligence (Elective)</b>                                                                                                                                                                 |
| CO1                     | To apply principles and skills of economics, marketing, and decision making to contexts.                                                                                                                |
| CO2                     | To learn the BI in terms of BI applications environments in data science                                                                                                                                |
| <b>:Course Code 404</b> | <b>Software Quality Assurance (SQA)</b>                                                                                                                                                                 |
| CO1                     | Develop methods and procedures for software development that can scale up for large systems and that can be used to consistently produce high quality software at low cost and with a small cycle time. |
| CO2                     | Student learns systematic approach to the development, operation, maintenance, and retirement of software.                                                                                              |



|     |                                                                                                                                                             |
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| CO3 | Student learns how to use available resources to develop software, reduce cost of software and how to maintain quality of software.                         |
| CO4 | Methods and tools of testing and maintenance of software's                                                                                                  |
| CO5 | Propose and defend innovative solutions to software quality assurance and measurement problems in the context of various software development environments. |

### **B.Voc. Retail Management**

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Course code 101</b> | <b>Business Communication</b>                                                                                                               |
| CO1                    | This course useful to make the students conversant and fluent in English.                                                                   |
| CO2                    | This course will create a positive image of self and organization in the costumer's mind.                                                   |
| CO3                    | This course will resolve customer concerns and improve customer relationship.                                                               |
| <b>Course code 102</b> | <b>Basics of Marketing</b>                                                                                                                  |
| CO1                    | This course will improve the understand and concept of marketing<br>This course will expose the students to the latest trends in marketing. |
| CO2                    | This course will monitor and solve service problems This course will promote continuous improvement in service.                             |
| <b>Course code 103</b> | <b>Fundamental of Customer Services</b>                                                                                                     |
| CO1                    | This course will help students to understand the critical need for service orientation in the current business scenario.                    |
| CO2                    | This course will help customers choose right products                                                                                       |
| CO3                    | This course will create a positive image of self and organization in the customers mind                                                     |
| CO4                    | This course will resolve customer concerns and improve customer relationship                                                                |
| <b>Course code 104</b> | <b>Basic of Retailing</b>                                                                                                                   |

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|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CO1                    | This course enables to known about prevailing, past and future scenario of retailing in India                                                                     |
| CO2                    | This course will improve customer relationship                                                                                                                    |
| CO3                    | This course will helpful to organize the display at the store and To plan visual merchandising                                                                    |
| <b>Course code 201</b> | <b>Business Organization and Management</b>                                                                                                                       |
| CO1                    | This course will provide conceptual knowledge of different forms of Business Organizations to students.                                                           |
| CO2                    | This course will enable students 'understanding various concepts in Management.                                                                                   |
| CO3                    | Students will be enabled to work effectively in organization with proper understanding of various aspects of Business Organization and Management.                |
| <b>Course code 202</b> | <b>Business Mathematics and Statistics</b>                                                                                                                        |
| CO1                    | This course will enable students to develop understanding of various mathematical and statistical tools and techniques and its application in practical problems. |
| CO2                    | This course will enable students 'to perform mathematical, logical calculations required for                                                                      |
| CO3                    | Students will be enabled to monitor and manage store performance                                                                                                  |
| <b>Course code 203</b> | <b>Retail Management</b>                                                                                                                                          |
| CO1                    | This paper will be useful in providing students with a comprehensive understanding of the theoretical and applied aspects of retail management                    |
| CO2                    | This course will help students to identify various retail management functions and activities and                                                                 |
| CO3                    | Students will be enabled to effectively monitor and manage retail store                                                                                           |

**B.Voc. (Software Development)**

|                                  |                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Course Code:<br/>BVSWC101</b> | <b>IT Fundamentals and IT tools.</b>                                                                                                                                |
| CO1                              | Spectacle an awareness and apply knowledge of number systems, code, Boolean algebra                                                                                 |
| CO2                              | To Use logic function representation for simplification with K-Maps                                                                                                 |
| CO3                              | To Know the difference between different types of networks.                                                                                                         |
| CO4                              | To Know Responsibilities, services offered and protocol used at each layer of network                                                                               |
| <b>Course Code:<br/>BVSWC102</b> | <b>Web Designing</b>                                                                                                                                                |
| CO1                              | To Use knowledge of HTML and CSS code and an HTML editor to create websites                                                                                         |
| CO2                              | To Use logic function representation for simplification with K-Maps Use critical thinking skills to design and create websites.                                     |
| CO3                              | Create online forms                                                                                                                                                 |
| CO4                              | Publish website to the web                                                                                                                                          |
| <b>Course Code:<br/>BVSWC104</b> | <b>The Operating System</b>                                                                                                                                         |
| CO1                              | To Appreciate the role of operating system as System software.                                                                                                      |
| CO2                              | Compare the various algorithms and comment about performance of various algorithms used for management of memory, CPU scheduling, File handling and I/O operations. |
| CO3                              | Apply various concepts related with Deadlock to solve problems related with Resources allocation, after checking the system in Safe state or not.                   |
| CO4                              | To appreciate the role of Process synchronisation towards increasing throughput of a system.                                                                        |

|                                  |                                                                                                                                                                                                         |
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| CO5                              | Able to describe process management and concepts of threading, multitasking                                                                                                                             |
| CO6                              | Able to differentiation of various scheduling algorithms and identify the reasons of Deadlock and their remedial measures in an operating system.                                                       |
| <b>Course Code:<br/>BVSWC103</b> | <b>Programming Using C</b>                                                                                                                                                                              |
| CO1                              | Intellectual Cognitive/ Analytical Skills: Enhancing Logical Thinking and Reasoning Skills through Collaborative Learning in C Programming.                                                             |
| CO2                              | Practical Skills: Students would be capable of developing various applications to solve deluge of real-world problems. They can also learn to make system software as well as application software.     |
| CO3                              | Transferable Skills: In many multinational companies they can work effectively in a group or team to achieve goals and can show initiative and leadership abilities.                                    |
| <b>Course Code:<br/>BVSWC201</b> | <b>Data Structure</b>                                                                                                                                                                                   |
| CO1                              | Define basic static and dynamic data structures and relevant standard algorithms for them: stack, queue, dynamically linked lists, trees, graphs, heap, priority queue, hash tables, sorting algorithms |
| CO2                              | Demonstrate advantages and disadvantages of specific algorithms and data structures                                                                                                                     |
| CO3                              | Select basic data structures and algorithms for autonomous realization of simple programs or program parts.                                                                                             |
| CO4                              | Determine and demonstrate bugs in program, recognize needed basic operations with data structures                                                                                                       |
| CO5                              | Formulate new solutions for programming problems or improve existing code using learned algorithms and data structures.                                                                                 |
| CO6                              | Evaluate algorithms and data structures in terms of time and memory complexity of basic operations.                                                                                                     |

