SSSPM, BARSHI'S

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

INTENRAL QUALITY ASSURANCE CELL

COURSE OUTCOMES

INDEX

Course Outcomes

COs: Marathi

1. **B. A. Marathi F.Y B.A, B.Sc. Marathi Paper I & II (S.L) Gadya Padya Upyojit Mar**athi
   CO1: To introduce learners to the literature of the writers from medieval and modern time.
   CO2: To make learners aware of social, political, cultural and economic conditions of the times.
   CO3: To introduce the style of prose, fiction and poetry.
   CO4: To understand Marathi grammar and punctuations.
   CO5: To develop language skills for media.
2. **F.Y. B.Com Marathi Paper I (S.L.) Gadya Padya Ani Upayojit Marathi**
   CO1: To introduce learners to poetry.
   CO2: To understand real facts in dialogue, sentence and phrases.
   CO3: To understand philosophy of Marathi literature.
   CO4: To develop and enhance thinking, reasoning and communications skills.
   CO3: To develop writing and expressing the views.
3. **F.Y.B.A Marathi Paper I (Opt.) Kavytmak Sahitya**
   CO1: To introduce students to Marathi Poetry.
   CO2: To understand Marathi poetry & connect it to real life.
   CO3: To understand various ideologies, movements in the history of Marathi poetry.
   CO4: To study the importance of literature. 5
4. **F.Y.B.A Marathi Paper II (Opt) NATYATMAK WANGMAY**
   CO1: To understand Marathi language and drama.
   CO2: To acquire and understand realistic view of life.
   CO3: To express the fabulous dramatics.
   CO4: To enhance expression, thoughts, ideas and all characteristic of human humanities through drama.
   CO5: To correlate drama with our life and to know the social religious issues.
5. **F.Y. BA Marathi Paper III (Opt.) Kathatmak Sahitya**
   CO1: To introduce students to Marathi story literature.
   CO2: To enhance learner's interest in Marathi stories & connect it to real life.
   CO3: To understand ideologies and movements in the history of Marathi language & literature.
   CO4: To understand importance of literature in life.
6. **F.Y. B.A. Marathi Paper IV (Opt) MUDRIT MADHAMASATHI LEKHAN KAUSHALUA**
   CO1: To understand communication skills.
   CO2: To acquire realistic view in Marathi literature.
   CO3: To understand the importance of language sources like television, mobile, newspaper and magazine.
   CO4: To know the outer world.
   CO5: to provide opportunities in services in mass media.
7. **S.Y. B.A, B.Sc. Marathi Paper III&IV (Gadya Padya Upyojit Marathi)**
   CO1: Students will get introduced to thoughtful writings.
   CO2: To create awareness about meaning and history of folk culture.
   CO3: To introduce different trends in literature.
   CO4: To understand of literary analysis.
   CO5: To apply literary syntax of Marathi language. 6
   CO6: To enhance interest of learner in Marathi literature, different Ideology and types.
   CO7: To introduce information technology and social news in media.
   CO8: To develop art of living through literature.
   CO9: To understand literature, science, official transactions.
8. **S.Y.B. COM Marathi Paper II (S.L) Marathi bhasha ani vanijya vhavhar**
   CO1: To impart knowledge of Marathi language of commerce & business.

CO2: To understand use of language in offices, commerce field and business sector.
CO3: To understand the need and structure of language.
CO4: To develop writing skill of commerce language.
CO5: To enhance competency through reading culture.

9. **S.Y. B.A. Marathi Paper V (Opt.) Aadhunik Marathi vangmayacha itihas. (1800-1920)**
   CO1: To study literature history after 1800.
   CO2: To correlate social, cultural, social movement ideology during 1800-1920 on literature.
   CO3: To understand the background, inspiration, importance of authors & their literary work in 1800-1920.
   CO4: To study translated literature & different types of literature including periodic, story, poetry, novel, biography, autobiography.
10. **S.Y.B.A, Marathi Paper Paper VI, VIII (Druk shravya Madhyamansathi lekhan kaushalya)**
   CO1: To introduce functioning and structure of radio language.
   CO2: To acquire skills of radio anchor.
   CO3: To understand production of different programmes on radio.
   CO4: To know different websites and webpages for media purposes.
   CO5: To develop critical thinking.
11. **S.Y.B.A. Marathi Paper VII (Opt.) Aadhunik Marathi vangmayacha itihas. (1800-1920)**
   CO1: To introduce learners to theatre culture, tradition, development and emergence of Marathi theatre.
   CO2: To familiarize with Annasaheb kirloskar and his contribution.
   CO3: To study translated literature & different types of literature such as periodic, story, poetry, novel, biography and autobiography.
   CO4: To study poetry, biography, autobiography and their specialty. Keshavasut (Father of modern Marathi poetry) and his contemporary.
12. **T.Y.B.A. Marathi Paper IX & XIII (OPT) (Bhartiy aani pashchimatya sahitya vichar)**
   CO1: To introduce students with basic scientific - Indian and foreign literature.
   CO2: To understand types of literature.
   CO3: To develop clear concepts in literature.
   CO4: To learn conveying of message through Marathi literature.
   CO5: To learn various forms of realistic human character.
13. **T.Y.B.A, Marathi Paper, X, XIV (Opt.) (Bhasha Vidnyan: Vyakran v Nibandha)**
   CO1: To create awareness about the structural patterns of sounds in Marathi.
   CO2: To inculcate ideas about history and development of Marathi language and its spoken forms.
   CO3: To understand Marathi grammar.
   CO4: To enhance pronunciation skill.
   CO4: To understand Marathi grammar in various forms - word formation, suffix & prefixes.
   CO5: To introduce learners to dialects of Marathi language. 8
14. **T.Y. B.A. Marathi Paper XI (MAIN) Madhyayugin Marathi vangmayacha itihas. (Start to 1600)**
   CO1: To understand different ages of Marathi.
   CO2: To understand Mahanubhav Sect and their contribution in Marathi literature.
   CO3: Specialty of ideology, philosophy of mahanubhav sect & their literary work.
   CO4: To understand contribution of Varkari sampraday (sects) and their literary work.
   T.Y. B.A. Marathi Paper XI (MAIN) Madhyayugin Marathi vangmayacha itihas. (1601 - 1818)
   CO1: To understand Panditi sahitya and their inspiration, specialty and structure.
   CO2: To know pandit kavi and his literature.
   CO3: To understand contribution of Shahiri literature, inspiration, structure and specialty.
15. **T.Y.B.A. Marathi Paper XII & XVI (Main Project)**
   After completion of the course, learners will be able to …..

CO1: Convey massage or motto with a story.
CO2: To think independently.
CO3: To apply logic.
CO4: To enhance thinking ability and create interest in Marathi language.

16. **M. A. Marathi 101. Adhunik Marathi wanngmayacha Itihas**
    CO1: To create the interest in modern history in Marathi literature.
    CO2: To cultivate and enhance interest in Marathi literature among the learners.
    CO3: To enable learners for competitive examinations.
    CO4: To create the interest in literature self-learning.
    CO5: To develop the comparative study on the Literature. 9
17. **Sahitya Samikshechi Multatwe**
    CO1: To create the most valuable evaluate the literature.
    CO2: To develop the real fact of Marathi literature.
    CO3: To develop criticize skills.
    CO4: To develop the criticize review of book, cinema and drama.
    CO5: To introduce to various types of *samiksha.*
18. **103. Bhashik kaushalya, Prasar Madheme wa Srujansheel Lekhan**
    CO1: To create interest in literature.
    CO2: To develop reading, writing and lessoning skills.
    CO3: To develop skillful anchor on radio, television and radio.
    CO4: To develop creative writer.
    CO5: To create socially valuable reporter, sub editor and rural journalist.
19. **104. Eka Lekhakacha Visesha abhyas Audhinik: Yaswantrao Chavan**
    CO1: To create interest in special author in literature.
    CO2: To understand and solve problems in life.
    CO3: To face challenges and overcome them through literature study.
    CO5: To introduce students with basic writing and reading skills.
20. **M.A. Marathi Paper II Year**
    401. Wananatamk Bhasa Vidhyan
    CO1: To develop the Nature of language on Marathi literature.
    CO2: To make the students aware of the language skills.
    CO3: To develop the linguistic approach.
    CO4: To encourage and enable the students to read the various types of language.
    CO5: To impart the skills and thinking ability. 10
21. **402. Adhunik Marathi wangmayatil pravaha**
    CO1: To develop learner's interest in new trends in modern Marathi in literature.
    CO2: To create interest in Marathi literature through reading books.
    CO3: To introduce various types of literature.
    CO4: To develop the bright thinking for Marathi novel and poem.
    CO5: Encourage the read for inter disciplinary literature.
22. **403. Folk literature**
    CO1: To develop the review of socialist folk literature.
    CO2: To create interest in Marathi folk literature to students.
    CO3: To make aware the learners about different areas of folk literature.
    CO4: To connect folk literature with real life situation.
    CO5: To introduce various types of areas folk literature.
23. **404. Marathwadyatil adhunik sahitya**
    CO1: To understand the various movements of Marathwada region.
    CO2: To develop modern Marathwada literature.
    CO3: To introduce learners with various types of Marathwada literature.
    CO4: To impart skill and develop thinking ability.

❖ COURCE OUTCOMES :हिंदी

1. सामान्य हिंदी (SL - I & II) (बी.ए., बी. कॉम., बी. एस्सी.)

CO1: मानवीय संवेदनाओं का विकास हो जाता है और इंसानीयत को बढ़ावा मिलता है।

CO2: हिंदी कहानी साहित्य का परिचय मिल जाता है।

CO3: हिंदी के प्रमुख लेखक और और उनकी लेखन विशेषताओं का परिचय प्राप्त होता है।

CO4: विद्यार्थिओं के भाषा कौशल का विकास होता है। Co5: विद्यार्थिओं में हिंदी भाषा के महत्त्व के साथ व्याकरणिक सजकता निर्माण होती है।

2. प्रश्नपत्र 1 उपन्यास साहित्य

CO1: विद्यार्थियों की साहित्यिक अभिरूचि का विकास और साहित्य आस्वादन का आनंद देना।

CO2 : इंसानी जीवन मूल्यों का विकास और उनके प्रति आस्था निर्माण करना।

CO3: उपन्यास साहित्य की बारिकियों से परिचित करना और हिंदी उपन्यास साहित्य की पहचान करना।

CO4 : लेखन और भाषा कौशल का विकास करना।

3. नाटक साहित्य प्रश्नपत्र 2

CO1: हिंदी नाटकों और उसके बहाने साहित्य में नाट्य परंपरा, हिंदी रंगमच, अभिनय तथा व्यावसायिक नाटकों से परिचित करना।

CO2 : 'विजयपर्व' नाटक से अशोक की जिंदगी का संघर्ष, युवराज से राजगद्दी और फिर राजगद्दी से निर्वाण तक के सफर का प्रयास युद्ध से शांति भली है की स्थितियों को बयां करता है। अतः विद्यार्थियों पर संघर्ष, रक्तपात, लडाई से शांति भली है के संस्कार हो जाता है।

CO3 : 'होरी' नाटक प्रेमचंद का है। इस नाटक के अध्ययन के पश्चात् किसानों की दयनीयता, जमीन से जुडना, पारिवारिक संघर्ष आदि का परिचय मिला। विद्यार्थी भी पहले से किसान परिवारों से जुड़े हैं, अतः 'होरी' नाटक में चित्रित पात्र उन्होंने अपने घरों में बसे हैं ऐसा एहसास किया है। बिना पढाई के क्या होता है इसका परिचय भी पाया है। अतः शिक्षा से आत्मनिर्भर बनने की प्रेरणा, सम्मान पाने की लालसा विद्यार्थियों में जगती है।

CO4 : 'अलख आजादी की' नाटक भारतीय स्वतंत्रता का लेखा-जोखा प्रस्तुत करता है। आज जिस देश में हम रह रहे हैं, वह कहां से कहां तक का सफर कर चुका है, इससे विद्यार्थी परिचित हो गए हैं। घर-गांव और देश के प्रति देशभक्ति के भाव विद्यार्थियों में जगाने का काम इस नाटक से होता है।

Co5: 'नाटक साहित्य पेपर के अध्ययन के बाद विद्यार्थियों में हिंदी नाटक साहित्य की बारिकियों को पहचानने की क्षमता का विकास, संवेदनाओं का विकास, नाट्य आस्वादन और नाटकों की आलोचना करने की दृष्टि का विकास हो गया है।

4. प्रश्नपत्र 3 हिंदी गद्य साहित्य

CO1: हिंदी कहानी और व्यंग्य साहित्य का अध्ययन करना।

CO2 : इंसानी जीवन मूल्यों और संवेदनाओं का विकास और उनके प्रति आस्था निर्माण करना ।

Co3: साहित्य आस्वादन और मूल्यांकन क्षमता का विकास करना।

CO4: हिंदी साहित्य की गद्य विधाओं का परिचय करवाना।

5. प्रश्नपत्र 4 - एकांकी साहित्य

CO1: एकांकी नाटक की तुलना में छोटी विधा है। प्रथम सत्र में नाटकों का अध्ययन और द्वितीय सत्र में एकांकी का अध्ययन है। इससे विद्यार्थियों को नाटक और एकांकी के बिच का फर्क समझ में आता है।

CO2: हिंदी एकांकी के उद्भव और विकास से विद्यार्थी परिचित होता है।

CO3 : एकांकी के माध्यम से मानवीय संवेदनाओं का अध्ययन हो गया और जीवन में मानवीय मूल्यों से विद्यार्थी परिचित हो गए। छोटी-छोटी घटनाओं का जीवन में क्या महत्त्व है, इसका परिचय भी विद्यार्थियों को हो गया है।

CO4: एकांकी नए पुराने' किताब के भीतर पांच प्रतिनिधिक एकांकियों को पढाई के लिए रखा है, जिससे ऐतिहासिक, सामाजिक और समस्यामूलक एकांकी कैसे होती है, इसका ज्ञान विद्यार्थियों को होता है।

CO5: 'प्रतिनिधिक महिला एकांकी हिंदी महिला एकांकीकारों की एकांकियों का प्रतिनिधित्व करती है। महिलाओं के अनुभव जगत का बयान करता यह एकांकी संग्रह महिलाओं की मुश्किलों और पीडाओं को विद्यार्थियों के सामने रखता है। अर्थात इससे विद्यार्थी अपने घर-परिवार में रह रही महिलाओं के मुश्किलों से परिचित हो गए हैं।

6. सामान्य हिंदी (SL- III & IV) (बी.ए., बी. कॉम., बी. एस्सी.)

CO1: साहित्य आस्वादन अभिरूचि का परिसंस्कार करना ।

CO2: जीवन मूल्यों के प्रति आस्था निर्माण करना ।

CO3: हिंदी के आधुनिक गद्य साहित्य की प्रतिनिधिक रचनाओम का परिचय करना ।

CO4: अत्याधुनिक इलेक्ट्रॉनिक माध्यमों का परिचय करना ।

Co5: व्यावहारिक प्रयोजनमूलक तथा संप्रेषणमूलक व्यावसायिक हिंदी भाषा से विद्यार्थी परिचित हो और रोजमर्रा की जिंदगी में अपनी मांगों को पूरा करने में सक्षमता पाए यह अपेक्षा भी इस पाठ्यक्रम की रही है। CO6: पत्रलेखन के सारे प्रकार, आवेदन पत्र, बैंकिंग तथा सरकारी कार्यालयों की प्रयोजनमूलक भाषा से विद्यार्थी परिचित होता है। "

CO7: हिंदी साहित्य की कहानी, कविता, संस्मरण, रेखाचित्र, डायरी, आत्मकथा, जीवनी, निबंध, यात्रावृत्त, व्यंग्य, रिर्पोताज, पत्र आदि विधाओं का परिचय भी विद्यार्थी कर चुके हैं। जीवन मूल्य, भाव-भावनाओं, संवेदनाओं के परिचय के साथ आधुनिक साधनों का भाषाई प्रयोग कैसे करे इसका परिचय भी विद्यार्थी पाते हैं।

CO8: रेडियो वार्ता लेखन, समाचार लेखन, मीडिया के विविध आयाम, हिंदी भाषा की व्यावसायिक उपयोगिता, बैंकों में हिंदी, वैश्वीकरण के परिप्रेक्ष्य में हिंदी भाषा का महत्त्व, उद्योग व्यापार में हिंदी के सहारे कैसे आर्थिक प्रगति कर सकते हैं आदि बातों का परिचय करवाना।

7. प्रश्नपत्र 5 कथेत्तर गद्य साहित्य -

Co1: कथेत्तर गद्य साहित्य पेपर रखने का उद्देश्य यहीं है कि हिंदी के विद्यार्थी हिंदी साहित्य के कथेत्तर विधाओं से परिचित हो।

CO2 : 'गद्य गौरव' और 'गद्य प्रभा' किताब के माध्यम से विद्यार्थी रेखाचित्र, निबंध, संस्मरण, जीवनीपरख लेख, व्यंग्य, आत्मकथा अंश, यात्रा वृतांत, लेख आदि विधाओं से भलीभांति परिचित हो।

CO3: साहित्य के विविध विधाओं के आस्वादन का आनंद लेने की आदत और अभिरुचि विकास भी विद्यार्थियों में करना।

CO4: हिंदी कथेत्तर गद्य संवेदना की परंपरा का परिचय करना।

CO5: जीवन मूल्यों के प्रति आस्था पैदा करना ।

8. प्रश्नपत्र 6- प्रयोजनमूलक हिंदी 1

CO1: हिंदी भाषा के प्रयोजनमूलक रूप का परिचय करना।

CO2 : हिंदी भाषा की व्यावहारिकता पर प्रकाश डालना।

CO3: भारत देश की राष्ट्रभाषा होने के नाते हिंदी भाषा की एहमीयत का मूल्यांकन करना ।

CO4: हिंदी के राष्ट्रीय और अंतर्राष्ट्रीय स्वरूप का मूल्यांकन करना।

Co5: आधुनिक तंत्र विज्ञान में हिंदी की उपयोगिता पर आकलन करना।

9. प्रश्नपत्र 7 - आधुनिक हिंदी कविता

CO1: हिंदी साहित्य के पद्य (कविता) के उद्भव और विकास पर प्रकाश डालना, हिंदी कविता के प्रति विद्यार्थियों की अभिरुचि की वृद्धि करना, मानवीय भाव-भावनाएं और संवेदनाओं का विकास करना इस पाठ्यक्रम का उद्देश्य है।

CO2 : नागार्जुन द्वारा लिखित खंडकाव्य 'भूमिजा' रामायण के कथा प्रसंग पर प्रकाश डालता है। सीता का ऐतिहासिक मूल्यांकन करते हुए एक नारी के नाते उसकी कौनसी शिकायतें राजा, पति, पुरुष और राज्य के प्रति रही है इसका लंबा मूल्यांकन करना। अर्थात नारी जीवन के संघर्ष और विद्रोह का परिचय इस खंडकाव्य का उद्देश्य है। Co3: विद्यार्थी रामायण', 'रामचरितमानस तथा अन्य रामायण कथा पर केंद्रित रचनाओं से एक अलग रचना से
परिचित हो गए हैं, जिसमें सीता का एक स्त्री होने के नाते पुरुषों के प्रति विद्रोह है इसका परिचय करवाना।

CO4 : 'चुनी हुई लंबी कविताएं पढाई हेतु रखी है। कविता और खंडकाव्य के बिच का साहित्यिक पद्य रूप के नाते लंबी कविताओं को जाना जाता है। इन कविताओं के माध्यम से विद्यार्थी विविध भाव, रस से परिचित हो गए हैं। साथ ही आधुनिक जीवन की परेशानियों, भ्रमभंग, बाजारीकरण, अर्थसत्ता का ताकतवर होना, शब्दों की एहमीयत आदि बातों का परिचित करवाना।

10.प्रश्नपत्र 8 प्रयोजनमूलक हिंदी 2 -

CO1: हिंदी भाषा के विविध रूपों का परिचय करना।

CO2: राजभाषा हिंदी के विविध रूपों का परिचय करना।

CO3: प्रयोजनमूलक भाषा तथा अनुवाद की भूमिका का परिचय करना।

CO4: हिंदी भाषा के प्रयोजनमूलक और व्यावहारिक रूप का परिचय करना ।

CO5: भारत देश की राष्ट्रभाषा होने के नाते हिंदी भाषा की एहमीयत का मूल्यांकन करना ।

CO6: हिंदी के राष्ट्रीय और अंतर्राष्ट्रीय स्वरूप का मूल्यांकन करना ।

CO7: आधुनिक तंत्र विज्ञान में हिंदी की उपयोगिता पर आकलन करना।

11.प्रश्नपत्र 9. प्रादेशिक साहित्य

CO1: साहित्य आस्वादन और अभिरूचि का परिष्कार करना।

CO2 : जीवन मूल्यों के प्रति आस्था निर्माण करना।

CO3: प्रादेशिक भाषा के साहित्य से परिचय करवाना।

CO4 : भारतीय साहित्य का अध्ययन करना।

12.प्रश्नपत्र 10 आदि तथा मध्यकालीन हिंदी साहित्य का इतिहास

CO1: हिंदी साहित्य के इतिहास तथा आरंभिक काल का परिचय करना।

CO2 : हिंदी साहित्य के लेखन स्रोतों एवं परंपराओं पर प्रकाश डालना।

CO3: हिंदी साहित्य आदिकाल, भक्तिकाल और रीतिकाल का परिचय देना।

CO4: साहित्य आस्वादन और अभिरूचि का परिष्कार करना।

CO5: जीवन मूल्यों के प्रति आस्था निर्माण करना।

13.प्रश्नपत्र 11 - साहित्यशास्त्र

CO1: साहित्य चिंतन परंपरा का अध्ययन करना।

CO2 : साहित्यालोचन क्षमता का परिचय करना।

CO3: साहित्य सृजन के संस्कार करना।

CO4: साहित्य एक प्रकार से शास्त्र है, उसका पढना, चिंतन, आकलन, मूल्यांकन और सृजन करना एक प्रकार की शास्त्रीय तकनीक है। इसी तकनीक का विकास करना इस पाठ्यक्रम का उद्देश्य है।

Cos: साहित्य का स्वरूप, तत्त्व, प्रयोजन, हेतु, शब्दशक्तियां, रस, अलंकार, छंद, विविध विधाओं का स्वरूप, आलोचना आदि अंगों का परिचय विद्यार्थियों को करवाना।

CO6: साहित्य और हिंदी भाषा के विद्यार्थी होने के नाते एक परिपूर्ण इंसान बनने और मानवीय जीवन का आकलन, बोध और मूल्यांकन करने की क्षमता का विकास हो यह इस पाठ्यक्रम का उद्देश्य है, अर्थात साहित्यशास्त्र इस पाठ्यक्रम की पढाई के बाद यह दृष्टि विद्यार्थियों लाना।

CO7: साहित्य का मूल्यांकन करने का नजरिया भी विकसित करना। साहित्य के कलापक्षीय अंगों पर प्रकाश डालने की दृष्टि का विकास करना।

14.प्रश्नपत्र 12 व 16 प्रकल्प कार्य

CO1: पठन-पाठन और लेखन कौशलों का विकास करना।

CO2: आलोचनात्मक क्षमता का विकास करना।

CO3: अनुसंधात्मक दृष्टि का विकास करना।

CO4: प्रकल्प प्रस्तुति का तकनीक से परिचित करना।

15.प्रश्नपत्र 13 मध्यकालीन काव्य -

CO1 : भारतीय भक्ति आंदोलन का अध्ययन करना।

CO2 : रीतिकालीन संवेदनाओं का अध्ययन करना।

CO3: कविताओं के माध्यम से मध्यकालीन सांस्कृतिक संवेदना का अध्ययन करना।

CO4: भक्ति तथा रीतिकालीन पृष्ठभूमि और प्रवृत्तियों से विद्यार्थियों को परिचित करना।

CO5: साहित्य का चिंतन, आकलन और मूल्यांकन करना एक प्रकार की शास्त्रीय तकनीक है। इसी तकनीक का विकास करना इस पाठ्यक्रम का उद्देश्य है।

16.प्रश्नपत्र 14- आधुनिक हिंदी साहित्य का इतिहास

CO1: हिंदी साहित्य के आधुनिक काल का परिचय करना ।

CO2 : हिंदी साहित्य के आधुनिक काल की पृष्ठभूमि और प्रवृत्तियों पर प्रकाश डालना।

CO3: हिंदी साहित्य के आधुनिक काल में कविता और गद्य लेखन के विविध प्रकारों का आकलन और मूल्यांकन।

CO4 : भारतीय स्वातंत्रता संग्राम में हिंदी साहित्यकारों ने कौनसी भूमिका निभाई और देशभक्ति से प्रेरित होकर कितना साहित्य लिखा इसका मूल्यांकन करना।

CO5: हिंदी साहित्य के सामाजिक और आधुनिक पहलुओं **पर प्रकाश डालना।**

17.प्रश्नपत्र 15 - साहित्यशास्त्र

CO1: साहित्य चिंतन परंपरा का अध्ययन करना। साहित्यालोचन क्षमता का परिचय करना।

CO3: साहित्य सृजन के संस्कार करना।

CO4: साहित्य के रस, अलंकार, छंद, विविध विधाओं का स्वरूप, आलोचना आदि अंगों का परिचय विद्यार्थियों को करवाना।

CO5: साहित्य की विविध विधाओं से विद्यार्थियों को परिचित करवाकर उसका तात्विक अध्ययन करना ।

CO6: साहित्य का मूल्यांकन करने का नजरिया भी विकसित करना। साहित्य के कलापक्षीय अंगों पर प्रकाश डालने की दृष्टि का विकास करना।

CO7: विद्यार्थिओं में साहित्यालोचन की दृष्टि को विकसित करना।

❖ Course Outcomes: - English

1. **B. A. English Paper II & IV: Reading Literature Aim of the Course**
   CO1: To enable students to read and appreciate various forms of literature and critically interact with them from different perspectives.
   CO2: To introduce students to appropriate literary strategies and literature.
   CO3: To pinpoint how far literary language deviates from ordinary language.
   CO4: To unravel many meanings in a literary text.
2. **Paper IV: Semester Two Unit One: Methodology of Literature**
   CO1: To develop appreciation for the purposes and pleasures of prose fiction and nonfiction.
   CO2: To articulate ways that literary works to construct values and ethical meanings.
   CO3: To practice analytical reading on multiple examples of each genre chosen.
   CO4: To illuminate literary choices and conventions, including texts that are culturally and historically diverse.
   CO5: To identify major features of literary forms and construct arguments.
   CO6: To understand different forms of literature - the ode, lyric, Sonnet, novel and dramatic type's comedy and tragedy.
   CO6: To understand various aspects of novel and drama.
3. **BA II English Optional**
   CO1: To enable students to read and appreciate various forms of literature and critically interact with different perspectives.
   CO2: To introduce learners with appropriate literary strategies.
   CO3: To pinpoint how far literary language deviates from ordinary language.
   CO4: To unravel many meanings in a literary text. 22
4. **Paper V &VII: LITERATURE IN ENGLISH 1550-1750 Paper V: Semester III**
   On successful completion of the course, the students will be able to:
   CO1: Interpret various forms of literature.
   CO2: Distinguish and analyze literary forms like essay, mock epic, drama and novel.
   CO3: Compare and differentiate between literary language and ordinary language.
   CO4: Unravel many meaning in literary text.
5. **Paper VI & VIII: LITERATURE IN ENGLISH 1750-1900 Paper VI: Semester III**
   On successful completion of the course, the students will be able to:
   CO1: Understand literary forms of poetry: Ballad and dramatic monologue, romantic poetry, prose, play and novel in 18th century and 19th century.
   CO2: Appreciate the poems of S.T. Coleridge and Robert Browning.
   CO3: Comment on themes and styles of Oscar Wilde's play.
   CO4: Understand plot, characters and setting in the novel of Thomas Hardy.

6. **BA III English Optional**

CO1: To introduce students to Modern English Literature.
CO2: To familiarize students with literary terms and introduce them with various streams in literary criticism and develop skills for literary evaluation.
CO3: To help learners to approach and appreciate Indian literature in English and make them see its place among world literature in English.
CO4: To introduce students to American literature and its diverse cultures reflected in writing.
CO5: To make students able to understand the background of English literature and help them to write on its development.
CO6: To understand how literature of modern period relates to the important trends of the period.
CO7: To make the students aware of the fact that all readers are critics and
introduce them to basic texts in criticism while developing critical thinking in them.
CO8: To introduce students to the thematic concerns, genres and trends of both Indian Writing in English and American Literature.
CO9: To lead the students to see how texts are affected by context.

7. **Paper IX & XIII: Twentieth Century English Literature Semester V Contents: Unit One: Poetry**

On successful completion of the course, the students will be able to:
CO1: Understand how the literature of modern period relates to the important trends of 20th century.
CO2: Appreciate poem by T.S. Eliot and W.B Yeats.
CO3: Comment on the themes of Osborne and G.B Shaw's plays.
CO4: Understand character setting in the novels of Kingsley Amiss and D.H Lawrence.

8. **Paper X & XIV: Introduction to Literary Criticism and Terms Semester**

On successful completion of the course, students will be able to …..
CO1: Identify and discuss classical Greek critics of literature.
CO2: Provide a brief overview of major critical theories by critics like Aristotle, Sir Philip Sidney, William Wordsworth and F.R. Leavis.
CO3: Learn the terms related to various genres of literature.
CO4: Cultivate an understanding of major critical and interpretive methods.

9. **Paper XI & XV: Indian Writing in English**

After studying the course, the learners will be able to…..
CO1: To understand nineteenth Century Reform - Movements in India; the Indian National Movement; Rise of the Indian Novel and Caste-Class.
CO2: To become aware of social, political, and cultural issues reflected in Indian writing in English, with reference to Indian social reformations, freedom struggle, women education and empowerment in nineteenth century.
CO3: To appreciate artistic and innovative use of language employed by writers to instill values and develop human concern through literary texts.
CO4: To familiarize students with emergence and growth of Indian Writing in English in the context of colonial experience.
CO5: To discuss issues concerning Indian Writing in English such as representation of culture, identity, history, constructions of nation, (post) national and gender politics, cross-cultural transformations.

10. Semester V Poetry: On successful completion of the course, the students will be able to….
CO1: Understand background of Indian English literature and its development.
CO2: Critically appreciate themes in poems of Nissim Ezekiel and Arun Kolatkar.
CO3: Understand and evaluate themes, plot, character in the plays of Girish Karnad and Vijay Tendulkar.
CO4: Appreciate the theme, setting, characters in the novels of Raja Rao and U.R Anantha Murthy

11. **Paper XII & XVI: Project Work on History of English Literature**
    CO1: To understand the background of English literature and empower learners on its development.
    CO2: To understand different aspects of research methodology.
    CO3: To write research papers.
    CO4: To understand new trends, movements in English literature.

❖ Course Outcomes: Economics

1. **Economics Micro Economics:**
   CO1: To provide foundations of economics.
   CO2: To understand scope of micro-economics, the behavior of an economic agents - namely, a consumer, a producer, a factor owner and the price fluctuation in a market.
   CO3: To study behavior of a unit and analysis.
2. **Price Theory:**
   CO1: To understand different components regarding price determination under various types of markets.
   CO2: To understand theory of production, cost and revenue analysis, forms of market and factor pricing theories.
3. **Indian Economy:**
   CO1: To study analytical factor of the students, by highlighting an integrated approach to be functioning aspects of the Indian economy, keeping in view the scope for alternative approaches.
   CO2: To study social, political and economic environment influencing policydecisions.
   CO3: To develop specific modules.
4. **Macro Economics:**
   CO: To create awareness of basic theoretical frameworks underlying the field of macroeconomics.
5. **Development Economics:**
   CO: To understand theories and developments underlying the field of development economics.
6. **International Economics:**
   CO1: To understand the basic principles that trend to govern the free flow oftrade in goods and services at global level.
   CO2: To understand and analyze the difference between various economies of the world.
7. **Agricultural Economics:**
   CO1: To study the treatment of issues in agriculture economics to those intending to specialize in the area.
   CO2: To familiarize students with policy issues those are relevant to Indian agricultural economics.
   CO3: To analyze the issues using basic micro economics.
8. **History of Economic Thought:**
   CO1: To understand the basic ideas of classical, new classical and marginality economist.
   CO2: To compare the basic economic ideas of various economic thinkers of the world.
9. **Money Banking and Finance:**
   CO1: To understand role of money and banking as the components of modern economy.
   CO2: To understand the operations of money and banking.
   CO3: To study interaction of money and banking with the rest of the economy.
   CO4: To understand monetary and banking systems in India.
10. **Public Finance:**
    CO1: To study the significance and scope of Public Finance.
    CO2: To provide detailed information about the fiscal policy, public revenue, public debt and public expenditure.
11. **Statistical Methods:**
    CO1: To understand techniques of statistical analysis which are commonly applied to economic problems.

CO2: To study the tools and techniques of statistical methods.
CO3: To understand data collection, its presentation, analysis and making inferences.

12. **Research Methodology:**
CO1: To understand the concept of social science research.
CO2: To know the importance of social research, design of research problem, data collection and presentation of data.
CO3: To understand the idea of research in social sciences.
13. **Industrial Economics:**
CO1: To understand basics of industrial economics.
CO2: To study globalization and liberalization in contemporary world.
14. **Economy of Maharashtra:**
CO1: To understand the basic features of economy of Maharashtra.
CO2: To study the problems related with agriculture, industries, cooperative sector and infrastructure in the Maharashtra state.

❖ Course Outcomes: B. A. Political Science

1. **Pol-101, Basic Concept of Political Science**
CO1: To understand the basics of political science.
CO2: To study the development of rights- state background of political history.
CO3: To analyze transitions in societal systems - the structure and order of the system.
2. **Pol-102, Government and Politics of Maharashtra**
CO1: To establish pattern of Maharashtra State.
CO2: To examine the government and non-government responses.
CO3: To understand history of the Freedom Movement in India collected from the Bombay Government Records.
CO4: To understand historical and political background of Maharashtra.
CO5: To explain structure and functions of state government in India.
CO6: To understand the political process of Maharashtra.
3. **Pol-103, Basic Concept of Political Science**
CO1: To define terms in a social science outside their immediate area of expertise.
CO2: To create awareness among students about democracy.
CO3: To help students to understand social and political values in Indian political system.
CO4: To understand the concept of welfare state.
4. **Pol-104, Government and Politics of Maharashtra**
CO1: To study elections and election process.
CO2: To provide solution to social problems.
CO3: To study Panchayat raj History.
CO4: To orient the students about ideology and programme of political parties in Maharashtra.
5. **Pol-105, Indian Government and Politics**
CO1: To study the prosperity of society.
CO2: To understand political events in government of India.
CO3: To understand basic principles of Indian constitution.
CO4: To study the Indian constitution.
6. **Pol-106 International Relations**
CO1: To understand the behavior of individual entrepreneurs and firms rather than world politics, liberalism.
CO2: To understand important implications for international law and international relations.
CO3: To explain basic concepts in international relations.
CO4: To understand the stages of development of international relation as a separate discipline.

Semester - IV

7. **Pol-107, Indian Government and Politics**
   CO1: To explain structure of union government and budgetary process in India.
   CO2: To understand the framework of Indian supreme court.
   CO3: To explain party system and electoral reforms.
   CO4: To evaluate the federal structure and center state relation.
8. **Pol-108, International Relations**
   CO1: To explore the nature of informal reasoning in international relations and to consider how instruction could help enhance.
   CO2: To study various international and regional organization.
   CO3: To aware the students about major issues in internationalism.
   CO4: To evaluate critically the non-alignment movement.

Semester V

9. **Pol - 109, Indian Political Thinkers**
   CO1: To understand modern political thinker's contribution.
   CO2: To learn the problems in cultural transformation of Indians into non- Indians.
   CO3: To study the religious, political, social and cultural thoughts of Indian political thinkers.
10. **Pol - 110, Western Political Thinkers 33**
    CO1: To understand the views of western political thinkers.
    CO2: To understand the ideas of western political thinkers and its relevance.
    CO3: To understand the thoughts of Plato on various political concepts.
    CO4: To know ideas of Aristotle and his role in western politics.
11. **Pol - 112, Indian Political Thinkers**
    CO1: To study Dr. B. R. Ambedkar's thoughts on democracy, economy and society.
    CO2: To evaluate critically M. N. Roy's radical humanism.
    CO3: To understand Nehru's democratic and secular views and its applicability.
    CO4: To know of ideas of Maulana Azad views on religion and politics.
12. **Pol - 113, Western Political Thinkers**
    CO1: To present thoroughly the wealth of historical and institutional materials.
    CO2: To study the thoughts of J. S. Mill and its applicability.
    CO3: To evaluate critically the thoughts of Karl Marx and its relevance.
    CO4: To understand the theory of utilitarianism.
13. **Pol – 111, Political Ideologies**
    CO1: To study the development and features of political ideologies.
    CO2: To understand relevance of political ideology in contemporary period.
    CO3: To study the origin of ideologies and clash of three political ideologies - liberalism, communism, and fascism.
    CO4: To correlate the theoretical discussion and analysis of ideologies to the transformations.
14. **Pol - 114, Political Ideologies**
    CO1: To study of ideology of socialism.
    CO2: To evaluate critically the ideology of fascism.
    CO3: To study the development and features of communism.
    CO4: To explain the ideology of feminism.

❖ Course Outcomes: History

1. **History Shivaji and His Times (1630-1818)**
   CO1: To introduce leaners about the innovative study techniques in the of History of Marathas.
   CO2: To provide value based conceptual and thought provocative.
   CO3: To provide insights into the Mughal rulers and the Maratha Empire.
   CO4: To introduce international elements in the study of Marathas to facilitate comparative analysis of the history.

CO5: To highlight the importance of past in exploration of present context.
CO6: To understand the socio-economic, cultural and political background of 17th century of Maharashtra.
CO7: To provide spirit of healthy Nationalism & Secularism among the learners.

2. **History of Modern Maharashtra (1818-1960)**
   CO1: To familiarize students to the study of Maharashtra.
   CO2: To acquaint learners with the basic understanding of developmental stage of Maharashtra.
   CO3: To impart high quality education to the students with reference to Maharashtra.
   CO4: To prepare the students for a variety of challenging careers through innovation in teaching and research.
   CO5: To develop comprehensive understanding of interdisciplinary issues ofthe society.
3. **History of Early India (up to B.C. 300)**
   CO1: To understand the ancient Indian history.
   CO2: To understand the nature of races and tribes intermingled in early India.
   CO3: To evaluate Hinduism, Jainism, and Buddhism in ancient times.
   CO4: To understand the nature of past and obstacles that impedes India's progress as a nation.
4. **History General Paper-VIII History of Mughal India (A.D. 1526- A.D. 1757)**
   CO1: To understand the Mughal contribution to the Indian history.
   CO2: To know the Mughal period.
   CO3: To study Persian art and culture amalgamated with native Indian art and culture.
   CO4: To study the political unity provided by the Mughal rulers.
5. **History General Paper – IX Historiography**
   CO1: To understand and evaluate the development of history as a discipline.
   CO2: To understand writing of historical accounts.
   CO3: To highlight the significance of thinking "historiographically".
   CO4: To provide new angles to research and interpretations.
6. **History General Paper-X History of Indian national Movement (A.D. 1885-A.D. 1947)**
   CO1: To provide a comprehensive understanding of the transformations in the economy of colonial India.
   CO2: To introduce land and agrarian policies under the British rule.
   CO3: To develop nationalism in learner's mind.
   CO4: To understand the British economic policy and Indian revolts.
   CO5: To understand the British parliamentary acts that led to the foundation for the Indian constitution.

❖ Course Outcomes: Physics

1. **Physics 101- Paper No I: Mechanics, properties of matter & sound:**
   CO1: To familiarize students with basic concepts of mechanics.
   CO2: To have deep understanding of Newton's laws of gravitation and their applications.
   CO3: To understand the concepts of viscosity and elasticity thoroughly.
   CO4: To understand the phenomena of surface tension and its applications.
   CO5: To understand the concept of ultrasonic and acoustics effectively.
   CO6: To enable students to solve numerical problems.
2. **Paper No II: Heat and Thermodynamics**
   CO1: To understand the concept of thermal conductivity and its application.
   CO2: To understand the concept of real gases and transform phenomena.
   CO3: To enable students to understand the laws of thermodynamics and thermodynamic processes.
   CO4: To study the concept of entropy thoroughly.
   CO5: To study heat engines and their efficiency.
   CO6: To enable students to solve numerical problems.

3. **Semester II 104- Paper No IV: Geometrical and Physical Optics**
   CO1: To familiarize students with basic concepts of optics.
   CO2: To have deep understanding of cardinal points of optical system.
   CO3: To understand the concept of interference thoroughly.
   CO4: To enable students to summarize phenomena of diffraction and polarization.
   CO5: To enable to solve numerical problems.
4. **Paper No V: Electricity and Magnetism**
   CO1: To understand the basic concepts and laws in electrostatics.
   CO2: To study the basic concepts and laws in dielectrics.
   CO3: To get knowledge of the basic concepts and laws of magnetism.
   CO4: To understand the basic concepts of transient current.
   CO5: To enable students to solve numerical problems involving topics covered.

   S. Y. B. Sc.
5. **Physics Semester III 201- Paper No VII: Mathematical, Statistical Physics and Relativity**
   CO1: To familiarize students with the mathematical methods used in physics.
   CO2: To familiarize students with the vector algebra.
   CO3: To get acquaintance with the differential equations.
   CO4: To familiarize students with partial differential equations.
   CO5: To familiarize students with classical and quantum statistics.
   CO6: To understand the concepts of special theory of relativity.
   CO7: To apply mathematical methods to solve problems in physics.
6. **202- Paper No VIII: Modern and Nuclear Physics**
   CO1: To familiarize learners with basic properties of nucleus.
   CO2: To have deep understanding of radioactivity and its applications.
   CO3: To familiarize students with nuclear forces and elementary particles.
   CO4: To understand construction and working of various particle accelerators and detectors.
   CO5: To understand photoelectric effect.
   CO6: To study different photoelectric cells.
   CO7: To enable students to solve numerical problems.

   Semester IV -
7. **205 Paper No XI: General Electronics**
   CO1: To familiarize students with basic electronic components.
   CO2: To understand semiconductors.
   CO3: To have deep knowledge of semiconductor devices.
   CO4: To familiarize learners with transistor circuits and their characteristics.
   CO5: To understand oscillators and multi vibrators.
   CO6: To understand the process of modulation and demodulation.
   CO7: To solve numerical problems.
8. **206- Paper No XII: Solid state Physics**
   CO1: To familiarize students with basic concepts of structure of solids.
   CO2: To familiarize students with characterization techniques.
   CO3: To understand bonding and band theory of solids deeply.
   CO4: To understand transport properties thoroughly.
   CO5: To enable students to solve numerical problems.

   T. Y. B. Sc. Semester V
9. **301-Paper No XV: Classical and Quantum Mechanics**
   CO1: To understand the mechanics of the system of particles.
   CO2: To understand d'Albert, principle, Langranges equation and its application.
   CO3: To familiarize students with historical background of quantum mechanics.
   CO4: To understand wave function and its physical interpretations.
   CO5: To familiarize learners with time dependent and time independent Schrodinger

equations and their applications.

CO6: To familiarize students with various operators used in quantum mechanics.

CO7: To enable students to solve numerical problems.

10. **Paper No XVI: Electrodynamics**

CO1: To familiarize students with various differential operators to study the Gauss law.

CO2: To familiarize learners with basic concepts and equations related to time varying fields such as Faradays law, Len's law etc.

CO3: To write expression for pointing vectors for electromagnetic waves.

CO4: To enable to write wave equations.

CO5: To solve numerical problems.

Semester VI

11. **305- Paper No XIX: Atomic, Molecular Physics and LASER**

CO1: To familiarize students with conceptual development of atomic model.

CO2: To understand one and two valence electron systems deeply.

CO3: To understand Zeeman Effect, Paschan back effect, Stark effect etc.

CO4: To understand Molecular Raman Spectroscopy.

CO5: To have deep introduction to lasers.

CO6: To familiarize students with different types of LASERS.

CO7: To understand construction and working of various types of LASERS.

CO8: To be aware with various applications of LASERS.

CO9: To enable students to solve numerical problems.

12. **Paper No XX: Non-conventional Energy sources and Optical Fibers**

CO1: To introduce students with various types of renewable energy sources.

CO2: To familiarize students with applications of solar energy.

CO3: To familiarize students with applications of biomass energy.

CO4: To familiarize students with wind mechanics.

CO5: To create awareness among students about energy conservation.

CO6: To familiarize students with optical fibers.

CO7: To familiarize students with applications of optical fibers.

CO8: To enable students to solve numerical problems. taxonomy.

❖ Course Outcomes: Chemistry

1. **B. Sc. Chemistry Paper I Inorganic Chemistry**

CO1: To study the basics of atomic structure - Atomic orbitals, Quantum numbers, Heisenberg uncertainty, Aufbau and Pauli exclusion principles, Hund's multiplicity rule. Electronic configurations of the elements, Bohr's atomic model.

CO2: To understand some periodic properties - atomic and ionic radii, ionization energy, electron affinity and electro negativity with reference to trends in periodic table and application in predicting chemical behavior.

CO3: To study s- and p- block elements.

2. **Paper No. II Organic Chemistry**

CO1: To understand the basic concepts in organic chemistry- reactions, reagents and mechanisms of organic reactions.

CO2: To study stereochemistry and its importance.

CO3: To familiarize open chain compounds like alkanes, alkenes and aromatic compounds chemistry and their importance.

3. **Paper V Physical Chemistry**

CO1: To understand basic mathematical concepts - logarithmic relations, curve sketching, linear graphs and calculation of slopes, differentiation of

functions simple mathematical functions, maxima and minima, partial differentiation.

CO2: To understand kinetic theory of gases, kinetic gas equation, and gas laws Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation from ideal behavior, van der Waals equation of state.

CO3: Critical Phenomena: PV isotherms of real gases.

CO4: To study chemical kinetics: Factors influencing the rate of reaction, rate law and characteristics of simple chemical reactions - zero order, first order, second order, Pseudo order, half-life. Arrhenius equation, concept of activation energy. Catalysis: Definition, types, and characteristics, Enzyme catalysis.

CO5: To understand basics of liquid and solid state - Intermolecular forces, structures, liquid crystals: Classification, structure of nematic and cholestric phases.

CO6: To study solids, Miller Indices, laws of crystallography, X-ray diffraction by crystals. Derivation of Bragg equation.

CO7: To familiarize learners with colloidal state.

4. **Paper VI Inorganic Chemistry - II**

CO1: To understand chemical properties of the noble gases, chemistry of xenon, structure and bonding in xenon compounds.

CO2: To understand types of bonds- ionic, covalent and coordinate, Hydrogen bonding, Van-der-Waals forces, Metallic bond Theories of bonding - VBT, VSEPR, MOT with formation and shapes of molecules.

CO3: To understand the basics of nuclear chemistry - Isotopes, Isobars mass, Binding Energy, Packing fraction N/Z ratio, Radio activity, properties of fundamental particles, Artificial transmutation. Applications with respect to trans-uranic elements, carbon dating.

CO4: To study theory of volumetric analysis - Types of titrations, volumetric apparatus, calibration of pipette and burette, indicators used in pH - titrations, oxidizing agents used in titrations. Theory of internal, external and self-indicators for redox titration.

5. **(Organic Chemistry) Paper IX**

CO1: To understand structure, reactivity, methods of preparation and chemical reactions of different types of compounds - alcohols, Phenols, aldehydes-ketones, amines and carboxylic acids.

CO2: To study named reactions- Pinacol-Pinacolone rearrangement, Fries Rearrangement, Claisen Rearrangement, Gatterman Synthesis and
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Reimer Tiemann Reaction, Baeyer-Villeger Oxidation, Benzoin, Aldol Knoenenagel condensations, Mannich Reactions. Hoffmann Bromamide Reactions, Gattermann Koch synthesis, Hell-Volhard-Zelinsky Reaction. Regents in organic chemistry – LiAIH4, LTA, PTC.

CO3: To understand the basic functional group transformations, aromatic electrophilic substitution reactions, nucleophilic additions.

6. **(Physical Chemistry-I) Paper X**

   CO1: To understand the basic concepts in thermodynamics.

   CO2: To understand the laws of thermodynamics and terms like W, q, du and dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Hess's law.

   CO3: To study Carnot cycle, its applications, concept of entropy, Gibbs and Helmholtz Functions, Criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change. Variation A with P, V and T.

   CO4: To understand equilibrium constant and free energy - law of mass action, Le Chatelier's principle, Reaction isotherm and reaction isochore, Clapeyron equation, Clausius-Clapeyron equation.

7. **(Physical Chemistry-II) Paper XIV**

   CO1: To study the basic terms and laws- Henry law, Raoults law in phase equilibrium and their applications.

   CO2: To understand different systems- Water, Pb-Ag, Mg-Zn, FeCl3-H2O, phenol-water, trimethyl amine - water, nicotine- water system, acetonedry ice.

   CO3: To understand the concept of ideal behavior and deviations from ideality.

   CO4: To understand the concept of conductivity and its types, Kohlrausch's law, Arrhenius Theory of Electrolyte Dissociation, Ostwald's dilution law, Transport number: and its determination, Conductometric titrations.

   CO5: To familiarize with types of reversible electrodes, Nernst Equation, Cell E.M.F., single electrode potential, Reference electrodes, Electro-chemical series, Electrolytic and galvanic cells, types of cells, Thermodynamic quantities of cell reactions, Concepts - pH, pKa and their determination, Buffers- types, and mechanism of action, Henderson- Hasselbalch equation. Corrosion: Concept, types and electrochemical theory.

8. **(Inorganic Chemistry) Paper XIII**

   CO1: To familiarize students with transition elements, lanthanides and actinides with reference to characteristics, position in periodic table and variation in periodic properties.

   CO2: To understand concepts and theories in coordination compounds - Werner's co-ordination theory, EAN rule, VBT, isomerism, chelates.

   CO3: To understand the concepts of acids and bases - Arrhenius, Bronsted-Lawry, Lux-Flood, Solvent System and Lewis Concept of Acids and Bases

   CO4: To study chemical reaction in non-aqueous solvents.

9. **Paper XVII Physical Chemistry**

   CO1: To understand concepts in Quantum Mechanics - Black body radiation, Planck's radiation law, photoelectric effect, Bohr's modes of hydrogen atom, Compton Effect. De Broglie Hypothesis, Heisenberg's uncertainty principle, Harmiltonian operator, Schrödinger wave equation postulates of quantum mechanics. Schrödinger wave equation for H-atom.

   CO2: To study the basics of spectroscopy - Electromagnetic radiation, regions of the spectrum, Born-Oppenheimer approximation, Rotational Spectrum - Diatomic molecules, energy levels of a rigid rotor (semi classical

principles), selection rule, rotational spectra of rigid diatomic molecule, determination of bond length.

CO3: To understand photochemistry - Photochemical processes, laws of photochemistry, Grothus - Drapper law, Stark-Einstein law, Jablonsiki diagram qualitative description of fluorescence, phosphorescence, nonradiative processes, quantum yield and photosensitized reactions.

CO4: To study some physical properties and their relation with the assingment of molecular structure- Optical activity, dipole moment, magnetic property.

CO5: To introduce nano-materials - Properties, methods of synthesis and applications.

CO6: To enable students to solve numerical problems.

10. **Paper XVIII Organic Chemistry**

CO1: To introduce learners to organic spectroscopy - 1H NMR, shielding and deshielding, chemical shifts, interpretation of PMR spectra of simple organic molecules, combined problems on UV, IR and PMR spectroscopic techniques.

CO2: To familiarize students with organometallic compounds - Structure, methods of synthesis and synthetic applications of Grignard reagents, Organozinc and organolithium compounds.

CO3: To understand organic synthesis via enolates - Active methylene compounds, Claisen condensation, Acidity of alpha hydrogen and its synthetic applications.

CO4: To introduce fats, oils and detergents - Saponification value, iodine value, and acid value. Detergents preparation of sodium alkyl sulphonate, alkyl benzene sulphonate, and amide sulphonate, cleansing action of detergent.

11. **Paper XIX Organic Chemistry**

CO1: To understand nature of metal-ligand bonding in transition metal complexes - crystal field theory with respect to octahedral, tetrahedral and square planer complex.

CO2: To familiarize with electronic spectra of transition metal complexes.

CO3: To introduce organo metallic compounds - classification, nomenclature, synthesis and reactions.

CO4: To study the roles and biological functions of metals in biological systems.

CO5: To introduce chromatography - types, classification and applications.

12. **Paper No. XVII Organic Chemistry**

CO1: Curriculum benefits to study the heterocyclic compounds in details, their aromatic characters and importance in medicinal chemistry, structure elucidation of five and six member heterocyclic compounds using molecular orbital theory.

CO2: To understand synthesis and properties of some five and six member heterocyclic compounds.

CO3: To study carbohydrate chemistry and its importance.

CO4: To understand synthesis and properties of some polymers,

polymerization reactions.

CO5: To know constitution, classification, synthesis and properties of some dyes.

CO6: To understand constitution, classification, synthesis, properties and applications of some drugs.

13. B. Sc. Analytical Chemistry ACH-101: Fundamentals of Anayltical chemistry:

After study the course, a student is able to understand:

CO1: Scope and importance of analytical chemistry.

CO2: Sampling of analytical samples.

CO3: Types of reagents, solvents and their uses.

CO4: Safe working in laboratory.

CO5: Introduction to digital electronics and computers.

14. ACH-102 Paper-II Basic Concepts of Analytical Chemistry

A student is able to understand:

CO1: Construction and working of mechanical and electronic analytical balance.

CO2: Chemical apparatus in laboratory and maintain of laboratory note book

CO3: Basics calculations in determination of concentration and ways of expressing concentration.

CO4: Common laboratory apparatus

CO5: Concepts of acids and bases.

15. ACH-201 Paper-IV Statistical Treatment & Modern Methods of Analysis:

Students will be able to understand …..

CO1: Terms in statistical data analysis.

CO2: Fundamentals of chromatographic techniques.

CO3: Principle, instrumentation and applications of electrophoresis and flame photometer.

CO4: Awareness to environmental pollution.

16. ACH-202 Paper-V Classical and Spectral Methods of Analysis

CO1: Basic concepts, in titrimetric methods of analysis.

CO2: Basic concepts in gravimetric analysis.

CO3: Introduction to spectral method of analysis- UV-visible spectroscopy.

CO4: Introduction to precipitation titration.

CO5: Fundamentals of complexometric titrations & some basic concepts of redox titrations.

17. ACH-301: Laboratory techniques: Inorganic and organic analysis

CO1: To understand theory of redox and idodometric acid-base indicators.

CO2: To study the basics of complexometric titrations.

CO3: To understand the methods of estimation of functional groups.

CO4: To understand the reactions of non-aqueous titrations.

CO5: To understand the common laboratory techniques.

ACH-302: Advance analytical techniques

CO1: To study the principals involved in solvent extraction.

CO2: To understand the basic principle, instrumentation and applications of gas, column, affinity and ion exchange chromatography.

18. ACH-305: Instrumental methods of chemical analysis-I

Learners will be able to understand…..

CO1: Basic concepts in conductometry.

CO2: Basic concepts and applications of potentiometry.

CO3: Introduction to high frequency titrations.

CO4: Principle, instrumentation and applications of atomic absorption spectroscopy, nephalometry and turbidometry.

19. ACH-306: Instrumental methods of chemical analysis-II

Learners will be introduced to…..

CO1: Principle, instrumentation and applications of polarography.

CO2: Physical methods of analysis-surface tension, viscosity etc.

CO3: Thermal methods of analysis - DTA, DSC.

CO4: Radiochemical methods of analysis.

CO5: Principle, instrumentation and applications of fluoremetry.

❖ Course Outcomes: Mathematics

1. **Mathematics Differential Equations**

CO1: To understand homogeneous and separable first order differential equations.

CO2: To understand the exact differential equations.

CO3: To understand homogenous linear equations with constant coefficient and variable coefficients.

CO4: To find the solution of non-homogenous first order differential equations.

CO5: To find the solution of Bernoulli's equation.

2. **Geometry**

CO1: To understand geometrical terminology for plane, right line, sphere, cylinder and cone.

CO2: To know the geometrical results to find center and radius of the circle.

CO3: Students will be able to find equation of lines and planes in space.

CO4: Student will be able to find angle between two planes and length of perpendicular from a given point to a given line.

CO5: Students will be able to identify parallel and perpendicular lines.

3. **Differential and Integral Calculus**

CO1: To develop the concepts of limit, function, continuity, discontinuity and derivative.

CO2: Students become familiar with hyperbolic functions, inverse hyperbolic functions, derivatives, and higher order differentiation.

CO3: Students understand the consequences of Rolle's Theorem and mean value theorem for differentiable function.

CO4: Students understand definite integrals as the limit of a sum.

CO5: Student will be able to understand the concept of divergence, curl, gradient and it's applications.

4. **Number Theory**

CO1: Students will be able to find quotient and remainders from integer division.

CO2: Students apply Euclid's algorithm and backward substitutions.

CO3: Students understand the concept of congruence, residue classes and least residue.

CO4: Student will know the concepts - addition and multiplication of integers modulo.

CO5: Students will be able to solve linear congruence.

5. **Numerical Methods.**

CO1: Student becomes familiar with numerical solutions of nonlinear equations in a single variable.

CO2: Students will know the concepts - numerical interpolation and approximation of

functions.

CO3: Student can solve first order initial value problem using Euler's method.

CO4: Student can solve first order initial value problem using a second order Runge- Kutta Method.

CO5: Students will be able to find numerical solution of ordinary differential equations.

6. **Integral Transform and Partial differential Equations**

CO1: Students understand the concept of beta and gamma functions and their applications.

CO2: Students are able use to Laplace transform to solve ordinary and partial differential equations.

CO3: Students can apply properties of Laplace transform to solve examples.

CO4: Students will know the difference between linear and nonlinear partial differential equations.

CO5: Student will be able to solve the linear and nonlinear partial differential equation by various methods like Lagrange's, Charpit's, Jacobi's, Monge's method.

7. **Mechanics (I & II)**

CO1: Students understand the concepts - particle, rigid body, force, equilibrium etc.

CO2: Students can find the components of velocity & acceleration in a given direction.

CO3: Students follow the concepts momentum, angular momentum, work, energy and points functions in mechanics.

CO4: Students will know the concept of projectile and motion of projectile.

CO5: Students will know differential and pedal equations of central orbits andtheir applications.

8. **Abstract Algebra (I & II)**

CO1: Students will understand the number systems and algebraic structures.

CO2: Students will understand the concept of ring and special types of rings.

CO3: Students can identify the difference between homomorphism and isomorphism of a group.

CO4: Students will know and apply the concepts of linear dependence and linear independence of vectors.

CO5: Students will be able to give the examples of inner product space.

9. **Ordinary Differential Equations (I & II)**

CO1: Students will know the difference between equation and differential equation.

CO2: Students will be able to find the solution of linear differential equation of first and second order.

CO3: Students will understand the initial value problem and its solutions.

CO4: Students will be able to understand the concept Wronskian of solution.

CO5: Students can find singular point and regular singular points of the differential equation.

10. **Real Analysis (I & II)**

CO1: Students become familiar with terminology sets, elements, operations on sets, functions, operations on functions.

CO2: Students can define & recognize basic properties of field of real numbers.

CO3: Students can understand the concept of series of real numbers, convergence and Divergence.

CO4: Students can understand metric space, continuous function on metric space and difference between open sets and closed sets.

CO5: Students will be able define Riemann integral, Fourier series and their applications.ds of taxonomy.

❖ Course Outcomes: Botany

1. **B. Sc. Botany Diversity of Cryptogams-I**
   CO1: Introduction about basic plant groups like Algae and Fungi.
   CO2: To equip the learners with all life science fundamental practical skills.
   CO3: To aware learners about the economic and medicinal value of cryptogrammic plants.
2. **Morphology of Angiosperms**
   CO1: To introduce to basic structure of plants.
   CO2: To develop practical knowledge of Angiosperm plants.
3. **Diversity of Cryptogams-II**
   CO1: To understand categories of plants with morphological features of Bryophytes and Pteridophytes.
   CO2: To analyze the peculiar characteristic features of plant groups in relation with its internal characteristics.
   CO3: To aware learners about economic and medicinal value of cryptogrammic plants.
4. **Histology, Anatomy and Embryology**
   CO1: To understand internal structure of plant parts.
   CO2: To apply theoretical knowledge in wood industry, forensic science.
   CO3: To understand the development of seed and seed certification.
5. **Taxonomy of Angiosperm**
   CO1: To familiarize with basic terminology, plant systematic and its different classification.
   CO2: To identify angiosperm plants and their use.
6. **Plant Ecology**
   CO1: Understanding of anatomical characterization of plants.
   CO2: Study of eco-friendly conservation and sustainable utilization.
   CO3: Students cop up with the ecosystem mechanism, analyzing plants ecosystem.
   CO4: Understanding of ecological adaptations.
7. **Gymnosperms and Utilization of plants**
   CO1: To make aware of economic and medicinal value of Gymnosperms and Angiosperms.
   CO2: To understand important terminology in industrially and economically important higher plant species.
8. **Plant Physiology**
   CO1: To understand plant physiology, life process, plant genetics and plant biotechnology.
   CO2: To use the theoretical knowledge for advance study in plant sciences.
9. **Cell and Molecular Biology**
   CO1: To create innovative approaches to aware the students in basic terminology of plant cells.
   CO2: To understand cell at molecular level.
   CO3: To apply theoretical understanding to the development of humankind.
10. **Diversity of Angiosperms-I**
    CO1: to create awareness about the plant resources.
    CO2: To classify plants on the basis of morphological aspects.
    CO3: To participate in laboratory experiments for understanding the basic principles of life sciences and helpful for gaining primary information.
11. **Genetics and Biotechnology**
    CO1: To study basic terms in Mendelian and non-Mendelian genetics.
    CO2: To focus on biotechnological importance for improvement and satisfaction of all needs of human kind.
    CO3: To understand plant biotechnology and its application in agriculture, horticulture, medicinal and industrial crops.
12. **Diversity of Angiosperms-II**
    CO1: To study eco-friendly conservation and sustainable utilization of plants.

CO2: To understand flora.

13. **Biology and Diversity of Bryophytes, Pteridophytes and Gymnosperms**
    CO1: To create the foundation of all plant life cycles of cryptogrammic plant species and it correlate with experimental techniques.
    CO2: To understand characteristics of non-flowering primitive plants.
    CO3: To aware the students about economic and medicinal values of cryptogrammic and gymnosperm plant.
14. **Ecology and Conservation**
    CO1: To understand plant kingdom system and its ecology.
    CO2: To distribute various biomes content for future higher environmental studies.
15. **Biodiversity I**
    CO1: To study the major hotspots in world.
    CO2: To increase confidence in students and percolate in research field.
    CO3: To inculcate botanical techniques among the learners.
16. **Biodiversity II**
    CO1: To demonstrate utility for different plant products.
    CO2: To study numerical taxonomy, and modern methods of taxonomy.

❖ Programes & Outcomes: ZOOLOGY

The students completing the B.Sc. programme successfully is expected to have following outcomes.

1. The students explain the basic principles, concepts in science.
2. Understanding the issues related to nature and environment.
3. To understand the practical applications of subject in day-to-day life
4. Understanding the relationship of man with the environment to make life eco-friendly

❖ Course Outcomes :

Sr. No.	Name of the Course	Course outcomes
1.	Protozoa to Annelida (Z-101)	Understand the knowledge of animal kingdom and taxonomic status of non-chordate. Understand the knowledge of parasitic pathogens, the diseases caused by them and how to control them.
2.	Cell Biology (Z-102)	Understand the structure and functions of procaryotic and eucaryotic cell. Understand the cell cycle and process of mitosis and meiosis. To understand the role of cell organelles in living organizms. Understand the various parts of microscope and their mechanism.
3.	Arthropoda to Echinodermata (Z-201)	The students understand the taxonomy and anatomy of Arthropods, molluscs and echinoderms. The students understand the

4.	Genetics I (Z-202)	Understand the basic concepts of mendelian genetics and its variations. Understand the mendels work on genetics, Mendels laws and variations. Understand the various blood groups in man and their inheritance. The students understand the chromosomal sex determination in various animals.
5.	Vertebrate Zoology (Z-301)	The students can understand the taxonomic classification of chordates. Understand the anatomy of few chordates and knows about the evolution of higher chordate animals from lower chordate animals. The students also understand the some behavioural aspects of amphibians, reptiles, birds and mammals.
6.	Genetics II (Z-302)	The students understands the mechanism of protein synthesis and expression of genes through it. The students knows about the human genetics and various genetical diseases occurs due to genetical abnormalities, DNA finger printing technique. The students can understand the technique of manipulation of gene for human welfare.
7.	Biochemistry and Endocrinology (Z-401)	Understands the various types of endocrine glands present in the human body. The students know about the hormones and their role in the physiology, biochemistry and metabolism. The students also know the hormonal deficiency, their effect on physiology, metabolism. The students understand the organic compounds, vitamins, enzymes and how they are essential to living organism.
8.	Ecology (Z-501)	The students understands the basic concepts of ecology. The students understands the ecosystem, the biotic and abiotic factors of ecosystem and how they play a role in the ecosystem. Understands the community and the relationship of animals, plants and microbes. Understands basic concepts of nature.
9.	Evolution (Z-502)	The students understand the process of evolution during different era. Understands the theories of evolution considering Darwinism and modern synthetic theory. Understands the adaptive features of the desert animals. Understands the modes of speciation, Isolating mechanism. Understands the adaptive features of aquatic vertebrates.
10.	Fishery Science-I (Z-601)	The students understand the capture fishery in the country. The students understand the fresh water, brackish water and marine water fisheries in India.

		The students knows the basic knowledge about the fisheries and how it is utilized to start the fishery business i.e. how to capture the fishes, how to market it, how to preserve it.
11.	Fishery Science-II (Z-602)	Understands the basic requirements essential for fish culture. The students acquire the knowledge about artificial pond construction, management of ponds, feeding of the fishes, fish diseases and how to control them. The student knows the techniques of artificial breeding and how to produce the seeds by using this technique. Understands the use of modern techniques in fish preservation, processing, fish by-products and storage of fish.

❖ Course Outcomes: Computer Science

1. **Computer Fundamental Course code: CSO1**

CO1: To make the students familiar with computer environment.
CO2: To familiarize with the basics of Operating System and business communication tools
CO3: To identify parts of a computer system.
CO4: To explain adequately the functioning of computer components.
CO5: To understand problem solving using computers.
CO6: To design an algorithmic solution for a given problem.
Digital Electronics: Course code: CSO2
CO1: To familiarize with basic concepts of digital electronics.
CO2: To learn number systems and their representation.
CO3: To understand the basic logic gates, Boolean algebra and K-maps.
CO4: To study arithmetic circuits, combinational circuits and sequential circuits.
CO5: Study comparative aspects of logic families. 121

2. **Operating System (CSO4)**

CO1: To understand structures, functions and history of operating systems.
CO2: To understand designs and issues associated with operating systems.
CO3: To understand process management concepts including scheduling, synchronization, and deadlocks.
CO4: To familiarize learners with multi-threading.
CO5: To study master concepts of memory management including virtual memory.
CO6: To understand master system resources sharing among the users.
CO7: To understand issues related with system interface, implementation, disk management.
CO8: To familiarize with protection and security mechanisms.

3. **Programming in C (CSO5):**

CO1: To understand a programming language.
CO2: To apply problem solving techniques.
CO3: To enable learners to write programs in C-programming and to solve problems.
CO4: To read, understand and trace the execution of programs written in C language.
CO5: to write the C code for a given algorithm.
CO6: To implement programs with arrays and functions.

4. **Course code: CS07: Advance C-Programming**.

After completing the course, learning will be able
CO1: To create user defined functions for specific task in C language.

CO2: To understand the functions, types and working in C programming.
CO3: To understand use of user defined data types such as structures & unions.
CO4: Students will be able to deal with memory using pointers.
CO5: To understand library functions and storage classes in C language. 122
CO6: To learn pre-processor directives and operators in C language.
CO7: To study files stored on computer memory using file handling.

5. **Course code: CS08 - Data Structure:**
   CO1: Student will be able to choose appropriate data structure as applied to specified problem definition.
   CO2: Student will be able to handle operations like searching, insertion, deletion and traversing mechanism on various data structures.
   CO3: Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc.
   CO4: Students will be able to use linear and non-linear data structures like stacks, queues, linked list etc.
6. **Course Code: CS011 - Programming in CPP:**
   CO1: To understand basic object oriented concepts & issues involved in effective class design.
   CO2: To write C++ programs involving the use object oriented concepts such as information hiding, constructors, destructors, inheritance etc.
7. **Course Code: CS012 - DBMS Using SQL:**
   CO1: Understanding the database system basic concepts, architecture, features, purpose, and advantage of DBMS.
   CO2: Learning about the component of a DBMS: Users, facilities & structure.
   CO3: Learning about data modeling & design.
   CO4: Learning about entity-relationship and data model.
   CO5: Understanding the basics of relational model, normalization, relational algebra.
   CO6: Introduction to oracle.
   CO7: Student will able to deal with database system using SQL to manipulate data.
   CO8: Understanding of physical storage of data. 123
   CO9: Learning architecture of database system.
   CO10: Learning about transaction processing and concurrency control.
8. **CSO15- Software Engineering:**
   CO1: To manage selection and initiation of individual projects and of portfolios of projects in enterprise.
   CO2: To conduct project planning activities that accurately forecast project costs, timelines, and quality.
   CO3: To implement processes for successful resource, communication, risk and change management.
   CO4: To demonstrate effective project execution and control techniques that result in successful projects.
   CO5: To conduct project closure activities and obtain formal project acceptance.
   CO6: To demonstrate a strong working knowledge of ethics and professional responsibility.
   CO7: To demonstrate effective organizational leadership and change skills for managing projects, project teams, and stakeholders.
9. **CSO16-VB .Net:**
   CO1: To understand the structure and model of programming language VB .Net
   CO2: To use the programming language VB.Net for programming technologies.
   CO3: To develop software in VB .Net.
   CO4: To evaluate user requirements for software functionality required to decide whether the programming language VB .Net can meet user requirements.

CO5: To solve the given problem by applying technologies using implementation of VB.Net programming language.
CO6: To choose an engineering approach for solving problems, starting from acquired knowledge of programming and operating systems. 124

10. **CSO19 -Data Communication and Networking**:

Students will be able to…..

CO1: Understand types of networks, technologies and application of networks.
CO2: Understand types of addresses and data communication.
CO3: Understand the concept of networking models, protocols and functionality of each layer.
CO4: Learn basic networking hardware and tools.
CO5: Understand wired and wireless networks, its types, functionality of layer.

11. **CSO20- Ethics and Cyber Law:**

CO1: To describe laws governing cyberspace and analyze the role of internet governance in framing policies for internet security.
CO2: To discuss different types of cybercrimes and analyze legal frameworks of different countries to deal with these cybercrimes.
CO3: To explain the importance of jurisdictional boundaries and identify the measures to overcome cross jurisdictional cyber-crimes.
CO4: To illustrate the importance of ethics in legal profession and determine the appropriate ethical and legal behavior according to legal frameworks.
CO5: To identify intellectual property right issues in cyberspace and design strategies to protect intellectual property.
CO6: To assess legal issues with online trading, analyze applicable e-contracting and taxation regulations.
CO7: To create security policy to comply with laws governing privacy and develop policies to ensure secure communication. 125

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SSSPM, BARSHI'S

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

INTENRAL QUALITY ASSURANCE CELL

PROGRAMME OUTCOMES

INDEX

1. Programme Outcomes - B. A.

PO1: **Social responsibility and awareness**: Students acquire knowledge and can apply in social sciences, literature and humanities which make them sensitive and help to grow ability as responsible citizens. It also creates social consciousness (**BL6**).

PO2: Inculcation of human values: Students can apply knowledge with human values framing the base to deal with various problems in life with courage and humanity (**BL6**).

PO3: Familiarize learners with social and economic issues: Learners get familiarize with social, economic, historical, geographical, political, ideological and philosophical tradition and thinking (**BL2**).

PO4: Communication and linguistic skills: Students acquire good communication and linguistic skills which is the need of modern time and essential for campus drives (**BL3**).

PO5: Competency: It empowers graduates to appear for competitive examinations and higher studies (**BL6**).

PO6: Creativity: Students will acquire the sense of social service and creative ability (**BL6**).

2. Programme Outcomes - M. A.

PO1: **Literature knowledge:** Students acquire in depth knowledge and can apply in literature making them sensitive and sensible to solve issues related with mankind (**BL3**).

PO2: Problem solving ability: The programme enables students to acquire knowledge and apply with human values framing a base to deal with various problems in real life situations (**BL3**).

PO3: Thinking ability: The learners can think and act over for solutions of issues prevailed in human life (**BL3**).

PO4: Ethics: Learners can apply ethical principles and commit to professional ethics and responsibilities (**BL6**).

PO5: Life skills: Acquisition of social, emotional and cognitive life skills (**BL6**).

PO6: Critical thinking: Students can apply critical thinking to real life situations (**BL6**).

PO7: **Research Aptitude:** Basic orientations of learners towards research and research methodology (**BL6**).

3. Programme Outcomes -B. Com.

PO01: Management skills: The programme provides administrative abilities as trained professionals required for banking, industrial and financial sectors (**BL6**).

PO02: Problem analysis: Learners can apply the intensive knowledge of accountancy, business law, economic principles and taxation to complex commercial problems (**BL4**).

PO03: Professional ethics: After completion of the programme, graduates can work as - Accountant, Auditor, Consultant, Company Secretary, Business Analyst, Finance Officer, Sales Analyst, Junior Analyst, Tax Accountant, Stock Broker, Economist, Business Development Trainee (**BL3**).

PO04: Professional skills: A student can opt for LLB after M.Com. Business Law is one of the best options in it (**BL3**).

4. Programme Outcomes - B. Sc.

PO1: Scientific temperament: The programme inculcates scientific attitude in the minds of learners in physical, chemical, material, life and mathematical sciences. Students acquire scientific abilities such as logical thinking, problem solving approach, data collection and decision making and apply the same (**BL6**).

PO2: Basic scientific knowledge: Students acquire scientific knowledge to extract information, formulate and solve problems in a systematic manner (**BL6**).
PO3: Technical competence and practical skills: Learners acquire skills to handle basic scientific instruments following the general lab safety practices through experimental skills (**BL6**).
PO4: Creative thinking and numerical ability: It empowers the learners with creative thinking and numerical ability (**BL6**).
PO5: Environment and sustainability: It provides understanding of current environmental scenario and necessity of sustainability along with solutions. Students are made aware of environment related issues and sustainable technology development (**BL3**).
PO5: Competency: The programme prepares learners for post-graduation and higher education. Students become eligible for appearing to competitive examinations such as MPSC/UPSC and banking (**BL6**).

5. Programme Outcomes - B. Sc. Computer Science (BCS)

PO1: To understand and apply the theory of computer science and software development fundamentals to produce computing-based solutions (**BL3**).
PO2: To provide a strong foundation in computer science and the ability to creatively apply computer and related technologies (**BL6**).
PO3: To formulate and analyze complex scientific problems (**BL4**).
PO4: A deep understanding and applying the principles of professional, ethical, legal, security, and social issues and responsibilities (**BL3**).
PO5: To enable learners for a career in an information technology oriented business or industry (**BL6**).
PO6: To comprehend the employment skills (**BL3**).
PO7: Understand modern notions in data analysis-oriented computing (**BL2**).

6. Programme Outcomes – BCA (Science)

PO01: Technical applications: The programme facilitates graduates to use and apply current technical concepts and practices in the core computer applications (**BL3**).
PO02: Problem solving approach: Learners can identify computer application related problems, analyze them and design systems or provide solutions for problems related with legal, ethical and societal issues (**BL3**).
PO03: Empowerment: The programme empowers graduates for competitive examinations and higher studies (**BL3**).
PO04: Communication and managerial skills: Students can work and communicate effectively in interdisciplinary environment as independently or in team, and demonstrate scientific leadership in academic and industry (**BL3**).
PO05: Professional skills: Learners recognize need and ability to engage in continuing professional development **(BL4**).
PO06: **Skilled human resource for industry and entrepreneurship**: The programme assists to produce skill oriented human resource (**BL6)**.
PO07: **Practical approach**: The programme imparts practical skills (**BL6**).

7. Aims and objectives - NSS

- To empower youth for developing the personality and character through voluntary community service.
- To acquire social skills for personal and national development.
- To develop constructive and positive attitudes in the minds of youth.

- To make the youth aware of involvement in social activities.
- To encourage youth for participating in the community.
- To develop team spirit.

8. Aims and objectives - N.C.C.

- To become a well-disciplined individual.
- To develop national patriotism in youth.
- To understand social awareness and responsibility.
- To understand the community needs.
- To develop competence in youth.
- To function effectively as an individual, and as a member or leader in diverse teams.
- To acquire leadership quality & democratic attitude.

9. Aims and objectives - Physical Education

- To increase muscular strength and endurance.
- To understand the significance of exercise and participative involvement in physical exercise.
- To develop individuals for attaining specific goals.
- To summarize and analyze current issues in health and wellness

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