



S. M. Dnyandeo Mohekar Mahavidyalaya, Kalamamb
Internal Quality Assurance Cell

PROGRAMME OUTCOMES (COs)
COURSE OUTCOMES (COs)



PROGRAMME OUTCOMES:

BACHELOR OF ARTS (B.A)

1. Students acquire knowledge in languages, political science, economics, history, sociology, geography, home science, and physical education.
2. This program enables students to gain knowledge of human values and face various problems of life with courage and humanity.
3. The program empowers the students to appear for various competitive examinations or choose the post graduate program of their choice.
4. Students will be ignited enough to think and act in order to solve various problems prevailing in human life and become a responsible citizen.
5. Arts/Social Sciences/Humanities Undergraduate students must be confident in speaking, writing, reading and understanding English and other Indian languages.
6. The program develops the student into a clear, rational and progressive thinker.


I Q A C
Coordinator
S.M.Dnyandeo Mohekar
Mahavidyalaya


Principal
S.M. Dnyandeo Mohekar
Mahavidyalaya, Kalam

S.M. Dnyandeo Mohekar Mahavidyalaya Kalamb

Department of English

Programme Specific Outcome



After the studying English as one of the Subjects the students will be:

1. Able to learn the four language skills i.e. to list, speaking, reading, writing.
2. Acquire the moral values through the study of English Language and literature.
3. Get the sound knowledge of English Grammar which will be beneficial for everyday communication as well as for the competitive examinations.
4. Acquire the skills of creative writing.
5. Pursue higher studies and research in English Language and Literature.

D. Jadhav
HOD
Dr. K. D. Jadhav

[Signature]
Principal
S.M. Dnyandeo Mohekar
Mahavidyalaya, Kalamb

D. Jadhav
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Coordinator
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Course Outcomes




Sr. No.	Class	Course/Paper	Course Outcome
1.	B.A., B. Sc. I English(Comp.)	Learning Language Skills-I	The students of 'Learning Language Skills' will be able to : <ol style="list-style-type: none"> 1. Develop an enhancement of basic four skills of language – reading, writing, listening & Speaking. 2. To comprehend language in an easy way. 3. Have competency in fields where oral skill is requisite. 4. Have proficiency in writing skills at diverse levels of composition.
5.	B.A., B. Sc. I English(Comp.)	Learning Language Skills-II	The students of 'Learning Language Skills' - I will be able to : <ol style="list-style-type: none"> 1. Understand the characteristics of various literary genres. 2. Acquaint with keen and subtle way in which the English language is used. 3. Have competency in the fields of grammatical properties in order to enable them to write and speak English consciously. 4. Understand how to use appropriate language through prose reading.
6.	B.A. English-I (Optional)	The Structure of English	The students of The structure of English will be able to : <ol style="list-style-type: none"> 1. Acquire the structure of English language. 2. To read and write English language in correct way. 3. Pronounce word/sentence with fluency & accuracy. 4. Communicate in the way as prescribed by IPA.
7.	B.A. English-I (Optional)	Reading literature	The students after understanding the reading literature will be able to : <ol style="list-style-type: none"> 1. Read & appreciate various forms of literature. 2. To unravel many meanings of in a literary text. 3. Understand appropriate literary strategies to read literature. 4. Identify & understand various types of literature.
8.	B.A. II English (Optional)	Literature in English 1550-1750 Literature in English 1750-1900	The students of Literature in English 1550-1750 and 1750-1900 will be able to : <ol style="list-style-type: none"> 1. Recognize and discuss various features of literary genres. 2. Identify the literature of particular age. 3. Understand the culture and traditions of



			specific period.
9.	B.A. III English (Optional)	<p>Twentieth Century English Literature</p> <p>Introduction to Literary Criticism and Terms</p> <p>Indian Writing in English</p>	<p>The students of these course will be able to :</p> <ol style="list-style-type: none"> 1. Know how the literature of modern period relates to the important trends of the period. 2. To explain and account for the rise of literary theory in the 20th century literature. 3. Understand the social- cultural, historical and political background of contemporary English literature. 4. Acquire the knowledge of significant development in the history of 20th century English literature. 5. To increase awareness of the fact that all readers are critics and explain the basic texts in criticism while developing critical thinking. 6. Identify and discuss the different aspects of criticism. 7. Understand the historical socio-political background of Indian English literature. 8. Define the thematic concerns, trends and genres of Indian Writing in English.
10.	B. Com. I (English Comp)	Written and Spoken Communication in English	<p>After successful completion, the Students be able to:</p> <ol style="list-style-type: none"> 1. To read and write and English language in correct way. 2. Pronounce word/sentence with fluency & accuracy. 3. Acquire the structure of English language. 4. To greet and interact with various routine activities boldly. 5. To apply for various jobs neatly and in an ideal way of today.
11.	B. Com. II (English Comp)	English for Entrepreneurs	<p>The Students of English for Entrepreneurs of Semester III & Semester IV will be able to:</p> <ol style="list-style-type: none"> 1. Have the proficiency in writing skills through grammar. 2. To do business with great confidence as they get command over Communicative English. 3. Achieve excellent business communication skills for better employment. 4. Develop the ability to communicate clearly in English on the matters relevant to day to day business operation with emphases on quality of presentation. 5. Overcome every obstacles in a way of being topmost businessman as they have ideal before them viz. JRD Tata, Sudha Murthy, Narayan Murthy etc.


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Course Outcomes COs: Marathi

Class	Course/Paper
B.A, B.Sc. F.Y Marathi Paper I & II (S.L)	गद्य-पद्य उपयोजित मराठी

Course Outcomes

- मध्ययुगीन आणि आधुनिक काळातील लेखकांच्या साहित्याची विद्यार्थ्यांना ओळख करून देणे.
- विद्यार्थ्यांना तत्कालीन सामाजिक, राजकीय, सांस्कृतिक आणि आर्थिक परिस्थितीची जाणीव करून देणे.
- गद्य, काल्पनिक आणि कविता यांच्या शैलीचा परिचय करून देणे.
- मराठी व्याकरण आणि विरामचिन्हे समजून घेण्यासाठी.
- विचार, तर्क आणि संप्रेषण कौशल्ये विकसित आणि वर्धित करण्यासाठी.

Class	Course/Paper
B.Com. F.Y Marathi Paper I & II (S.L)	गद्य-पद्य उपयोजित मराठी

Course Outcomes

- विद्यार्थ्यांना कवितेची ओळख करून देणे.
- संवाद, वाक्य आणि वाक्प्रचारांमधील वास्तविक तथ्ये समजून घेण्यासाठी.
- मराठी साहित्याचे तत्वज्ञान समजून घेणे.
- विचार, तर्क आणि संप्रेषण कौशल्ये विकसित आणि वर्धित करण्यासाठी.
- लेखन विकसित करणे आणि विचार व्यक्त करणे.



Class	Course/Paper
B.A. F.Y Marathi Paper I (Opt)	काव्यात्मक साहित्य

Course Outcomes

- विद्यार्थ्यांना कवितेची ओळख करून देणे.
- विद्यार्थ्यांना मराठी कवितेची ओळख करून देणे.
- मराठी कविता समजून घेणे आणि तिला वास्तविक जीवनाशी जोडणे.
- मराठी कवितेच्या इतिहासातील विविध विचारधारा, चळवळी समजून घेणे.
- साहित्याचे महत्त्व अभ्यासणे.

Class	Course/Paper
B.A. F.Y Marathi Paper II (Opt)	नाट्यात्मक वाङ्मय

Course Outcomes

- मराठी भाषा आणि नाटक समजण्यासाठी.
- जीवनाचा वास्तववादी दृष्टिकोन आत्मसात करणे आणि समजून घेणे.
- विलक्षण नाट्य व्यक्त करण्यासाठी.
- नाटकाद्वारे अभिव्यक्ती, विचार, कल्पना आणि मानवी मानवतेची सर्व वैशिष्ट्ये वाढवणे.
- नाटकाचा आपल्या जीवनाशी संबंध आणि सामाजिक धार्मिक समस्या जाणून घेण्यासाठी.

Class	Course/Paper
B.A. F.Y Marathi Paper III (Opt)	कथात्मक साहित्य

Course Outcomes

- विद्यार्थ्यांना मराठी कथा साहित्याची ओळख करून देणे.
- मराठी कथांमध्ये शिकणाऱ्याची रुची वाढवणे आणि ती खऱ्या जीवनाशी जोडणे.



- मराठी भाषा आणि साहित्याच्या इतिहासातील विचारधारा आणि समजून घेणे.
- जीवनातील साहित्याचे महत्त्व समजून घेणे.

Class	Course/Paper
B.A. F.Y Marathi Paper IV (Opt)	मुद्रित माध्यमांसाठी लेखन कौशल्य

Course Outcomes

- संप्रेषण कौशल्ये समजून घेण्यासाठी.
- मराठी साहित्यात वास्तववादी दृष्टिकोन आत्मसात करणे.
- टेलिव्हिजन, मोबाईल, वर्तमानपत्र आणि मासिके यांसारख्या भाषा स्रोतांचे महत्त्व समजून घेण्यासाठी.
- बाह्य जग जाणून घेण्यासाठी.
- मास मीडियामध्ये सेवांमध्ये संधी प्रदान करणे.

Class	Course/Paper
B.A., B.Sc. S.Y Marathi Paper III & IV (SL)	गद्य-पद्य उपयोजित मराठी

Course Outcomes

- विद्यार्थ्यांना वैचारिक लेखनाची ओळख होईल.
- लोकसंस्कृतीचा अर्थ आणि इतिहास याबद्दल जागरूकता निर्माण करणे.
- साहित्यातील विविध ट्रेंडची ओळख करून देणे.
- साहित्यिक विश्लेषण समजून घेण्यासाठी.
- मराठी भाषेचे साहित्यिक वाक्यरचना लागू करणे.
- मराठी साहित्य, विविध विचारधारा आणि प्रकारांमध्ये विद्यार्थ्यांची आवड वाढवण्यासाठी.
- माध्यमांमध्ये माहिती तंत्रज्ञान आणि सामाजिक बातम्यांचा परिचय करणे.
- साहित्यातून जगण्याची कला विकसित करणे.
- साहित्य, विज्ञान, अधिकृत व्यवहार समजून घेण्यासाठी.



Class	Course/Paper
B.Com. S.Y Marathi Paper III & IV (SL)	मराठी भाषा आणि वाणिज्य व्यवहार

Course Outcomes

- वाणिज्य आणि व्यवसायाच्या मराठी भाषेचे ज्ञान देणे.
- कार्यालये, वाणिज्य क्षेत्र आणि व्यवसाय क्षेत्रातील भाषेचा वापर समजून घेण्यासाठी.
- भाषेची गरज आणि रचना समजून घेणे.
- वाणिज्य भाषेचे लेखन कौशल्य विकसित करणे.
- वाचन संस्कृतीद्वारे सक्षमता वाढवणे.
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Class	Course/Paper
B.A. S.Y Marathi Paper V (Opt)	आधुनिक मराठी वाङ्मयचा इतिहास. (१८००-१९२०)

Course Outcomes

- 1800 नंतरच्या साहित्य इतिहासाचा अभ्यास करणे.
- साहित्यावर 1800-1920 दरम्यान सामाजिक, सांस्कृतिक, सामाजिक चळवळीतील विचारधारा सहसंबंधित करणे.
- पार्श्वभूमी, प्रेरणा, लेखकांचे महत्त्व आणि 1800-1920 मधील त्यांचे साहित्यिक कार्य समजून घेण्यासाठी.
- अनुवादित साहित्य आणि नियतकालिक, कथा, कविता, कादंबरी, चरित्र, आत्मचरित्र यासह विविध प्रकारच्या साहित्याचा अभ्यास करणे.

Class	Course/Paper
B.A. S.Y Marathi Paper VI & VIII (Opt)	दुक श्रव्य माध्यमासाठी लेखन कौशल्य

Course Outcomes

- रेडिओ भाषेची कार्यप्रणाली आणि रचना सादर करणे.
- रेडिओ अँकरचे कौशल्य आत्मसात करणे.



- रेडिओवरील विविध कार्यक्रमांचे उत्पादन समजून घेणे.
- मीडिया हेतूसाठी भिन्न वेबसाइट आणि वेबपृष्ठे जाणून घेण्यासाठी.
- गंभीर विचार विकसित करणे.

Class	Course/Paper
B.A. S.Y Marathi Paper VII (Opt)	आधुनिक मराठी वांगमयाचा इतिहास. (१८००-१९२०)

Course Outcomes

- विद्यार्थ्यांना नाट्यसंस्कृती, परंपरा, विकास आणि मराठी रंगभूमीच्या उदयाची ओळख करून देणे.
- अण्णासाहेब किर्लोस्कर आणि त्यांचे योगदान जाणून घेणे.
- अनुवादित साहित्य आणि नियतकालिक, कथा, कविता, कादंबरी, चरित्र आणि आत्मचरित्र यासारख्या विविध प्रकारच्या साहित्याचा अभ्यास करणे.
- कविता, चरित्र, आत्मचरित्र आणि त्यांची खासियत यांचा अभ्यास करणे. केशवसुत (आधुनिक मराठी कवितेचे जनक) आणि त्यांचे समकालीन.

Class	Course/Paper
B.A. T.Y Marathi Paper IX & XIII (Opt)	भारतीय आणि पाश्चिमात्य साहित्य विचार

Course Outcomes

- विद्यार्थ्यांना मूलभूत वैज्ञानिक - भारतीय आणि परदेशी साहित्याचा परिचय करून देणे.
- साहित्याचे प्रकार समजून घेण्यासाठी.
- साहित्यात स्पष्ट संकल्पना विकसित करणे.
- मराठी साहित्यातून संदेश पोहोचवणे शिकणे.
- वास्तववादी मानवी चारित्र्याची विविध रूपे जाणून घेण्यासाठी.



Class	Course/Paper
B.A. T.Y Marathi Paper X & XIV (Opt)	भाषा विज्ञान: व्याकरण व निबंध

Course Outcomes

- मराठीतील ध्वनीच्या संरचनात्मक नमुन्यांबद्दल जागरूकता निर्माण करणे.
- मराठी भाषेचा इतिहास आणि विकास आणि तिच्या बोलल्या जाणाऱ्या प्रकारांबद्दल कल्पना रुजवणे.
- मराठी व्याकरण समजण्यासाठी.
- उच्चारण कौशल्य वाढवण्यासाठी.
- मराठी व्याकरण विविध स्वरूपात समजून घेण्यासाठी - शब्द निर्मिती, प्रत्यय आणि उपसर्ग.
- विद्यार्थ्यांना मराठी भाषेच्या बोलीभाषांचा परिचय करून देणे.

Class	Course/Paper
B.A. T.Y Marathi Paper XI (Main)	मध्ययुगीन मराठी वाङ्मयाचा इतिहास. (1600 पासून सुरू)

Course Outcomes

- मराठीचे विविध वयोगट समजण्यासाठी.
- महानुभाव पंथ आणि त्यांचे मराठी साहित्यातील योगदान समजून घेणे.
- विचारधारा, महानुभाव पंथाचे तत्वज्ञान आणि त्यांचे साहित्यिक कार्य.
- वारकरी संप्रदायाचे योगदान आणि त्यांचे साहित्यिक कार्य समजून घेणे.

Class	Course/Paper
B.A. T.Y Marathi Paper XI (Main)	मध्ययुगीन मराठी वाङ्मयाचा इतिहास. (१६०१ - १८१८)

Course Outcomes

- पंडित साहित्य आणि त्यांची प्रेरणा, वैशिष्ट्य आणि रचना समजून घेणे.
- पंडित कवी आणि त्यांचे साहित्य जाणून घेणे.
- शाहिरी साहित्याचे योगदान, प्रेरणा, रचना आणि वैशिष्ट्य समजून घेणे.



Class	Course/Paper
B.A. T.Y Marathi Paper XII & XVI (Main Project)	मध्ययुगीन मराठी वाङ्मयाचा इतिहास. (१६०१ - १८१८)

Course Outcomes

अभ्यासक्रम पूर्ण केल्यानंतर, विद्यार्थी सक्षम होतील

- कथेसह मसाज किंवा बोधवाक्य सांगा.
- स्वतंत्रपणे विचार करणे.
- तर्क लागू करण्यासाठी.
- विचार क्षमता वाढवणे आणि मराठी भाषेची आवड निर्माण करणे.

Class	Course/Paper
M.A. I year Marathi Paper 101	आधुनिक मराठी वाङ्मयाचा इतिहास

Course Outcomes

- मराठी साहित्यात आधुनिक इतिहासाची आवड निर्माण करणे.
- शिकणाऱ्यांमध्ये मराठी साहित्याची आवड निर्माण करणे आणि वाढवणे.
- विद्यार्थ्यांना स्पर्धात्मक परीक्षांसाठी सक्षम करण्यासाठी.
- साहित्य स्व-अध्ययनाची आवड निर्माण करणे.
- साहित्यावरील तुलनात्मक अभ्यास विकसित करणे.

Class	Course/Paper
M.A. I year Marathi Paper 102	साहित्य समीक्षेची मुलतत्वे

Course Outcomes

- साहित्य तयार करण्यासाठी सर्वात मौल्यवान मूल्यमापन करा.
- मराठी साहित्याची खरी वस्तुस्थिती विकसित करणे.
- टीका कौशल्य विकसित करणे.
- पुस्तक, सिनेमा आणि नाटक यांची समीक्षक समीक्षा विकसित करणे.
- विविध प्रकारच्या समीक्षांचा परिचय करून देणे.



Class	Course/Paper
M.A. I year Marathi Paper 103	भाषा कौशल्य, प्रसार माध्यम व सृजनशील लेखन

Course Outcomes

- साहित्याची आवड निर्माण करणे.
- वाचन, लेखन आणि धडे कौशल्ये विकसित करण्यासाठी.
- रेडिओ, टेलिव्हिजन आणि रेडिओवर कुशल अँकर विकसित करणे.
- सर्जनशील लेखक विकसित करण्यासाठी.
- सामाजिकदृष्ट्या मौल्यवान रिपोर्टर, उपसंपादक आणि ग्रामीण पत्रकार तयार करणे.

Class	Course/Paper
M.A. I year Marathi Paper 104	एका लेखकाचा विशेष अभ्यास अधिकारी : यशवंतराव चव्हाण

Course Outcomes

- साहित्यातील विशेष लेखकाची आवड निर्माण करणे.
- जीवनातील समस्या समजून घेणे आणि सोडवणे.
- साहित्य अभ्यासाद्वारे आव्हानांना तोंड देणे आणि त्यावर मात करणे.
- विद्यार्थ्यांना मूलभूत लेखन आणि वाचन कौशल्यांचा परिचय करून देणे.

Class	Course/Paper
M.A. II year Marathi Paper 401	वर्णनात्मक भाषा विज्ञान

Course Outcomes

- मराठी साहित्यावर भाषेचे स्वरूप विकसित करणे.
- विद्यार्थ्यांना भाषा कौशल्याची जाणीव करून देणे.
- भाषिक दृष्टिकोन विकसित करणे.
- विद्यार्थ्यांना विविध प्रकारच्या भाषा वाचण्यासाठी प्रोत्साहित करणे आणि सक्षम करणे.
- कौशल्ये आणि विचार करण्याची क्षमता प्रदान करणे.



Class	Course/Paper
M.A. II year Marathi Paper 402	आधुनिक मराठी वाङ्मयातील प्रवाह

Course Outcomes

- साहित्यातील आधुनिक मराठीतील नवीन ट्रेडमध्ये विद्यार्थ्यांची आवड निर्माण करणे.
- पुस्तके वाचून मराठी साहित्याची आवड निर्माण करणे.
- विविध प्रकारच्या साहित्याचा परिचय करून देणे.
- मराठी कादंबरी आणि कवितेसाठी उज्वल विचार विकसित करणे.
- आंतरविद्याशाखीय साहित्य वाचण्यासाठी प्रोत्साहित करा.

Class	Course/Paper
M.A. II year Marathi Paper 403	लोकसाहित्य

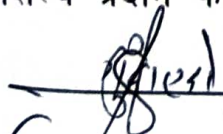
Course Outcomes

- समाजवादी लोकसाहित्याची समीक्षा विकसित करणे.
- विद्यार्थ्यांना मराठी लोकसाहित्याची आवड निर्माण करणे.
- लोकसाहित्याच्या विविध क्षेत्रांबद्दल विद्यार्थ्यांना जागरूक करणे.
- लोकसाहित्याला वास्तविक जीवन परिस्थितीशी जोडणे.
- विविध प्रकारचे क्षेत्र लोकसाहित्य सादर करणे.

Class	Course/Paper
M.A. II year Marathi Paper 403	मराठवाड्यातील आधुनिक साहित्य

Course Outcomes

- मराठवाडा विभागातील विविध हालचाली समजून घेणे.
- आधुनिक मराठवाड्यातील साहित्य विकसित करणे.
- मराठवाड्यातील विविध प्रकारच्या साहित्याची विद्यार्थ्यांना ओळख करून देणे.
- कौशल्य प्रदान करणे आणि विचार करण्याची क्षमता विकसित करणे.


डा. दादाराव गुंडे
मराठी विभाग प्रमुख


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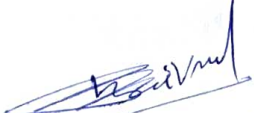


- S.M. Dnyandeo Mohekar Mahavidyalaya Kalam

Department of Hindi Programme Specific Outcome

हिंदी विषय के अध्ययन से छात्रोंमें निम्न कौशल्य प्राप्त होगा।

- भाषा के रचनात्मक पहलुओंका ज्ञान प्राप्त होता है.
- साहित्य के विविध विधाओं के माध्यम से छात्रों का भावात्मक विकास होता है.
- नगरी सेवा परीक्षा में भाग लेने समर्थ होते है.
- राष्ट्रीय एकात्मता, समानता तथा देश के उत्तर दायित्व का ज्ञान होता है.
- हिंदी भाषा तथा साहित्य का ज्ञान प्राप्त होगा।
- छात्रों में भावात्मक और सौन्दर्यात्मक विकास होगा।
- हिंदी भाषा के ज्ञान से छात्र दुभाषिया अनुवादक, दुभाषक तथा प्रूफ शोधक के रूप में तैयार हो जाते है. हिंदी भाषा के गण्यं से छात्र सूत्र संचालन, निवदेन, पटकथा लेखन, संवादलेखन, पुस्तक संपादन तथा संवाददाता के रूप में उभरकर आते है.


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Course Outcomes COs: Hindi

बी.ए. प्रथम वर्ष (ऐच्छिक हिंदी प्रथम सत्र) प्रश्नपत्र - 1 उपन्यास साहित्य

कोर्स का परिणाम (Course Outcomes)

- छात्रों को उपन्यास साहित्य का परिचय देकर प्रतिनिधि उपन्यास कारों का परिचय देना।
- हिंदी साहित्य के प्रति छात्रों की रुचि बढ़ाना तथा साहित्य की विभिन्न विधाओं से परिचित कराना।
- छात्रों में राष्ट्र के प्रति प्रेम एवं सामाजिक प्रतिबद्धता की भावना विकसित करना।
- हिंदी उपन्यास में यशपाल का उपन्यास साहित्य से परिचय कराना।
- आपका बंटी मन्नू भंडारी लिखित उपन्यास से छात्रों को परिचय कराना।
- राष्ट्रीय आय के सामाजिक उत्तरदायित्व वैज्ञानिकता आदि मूल्यों के प्रति छात्रों की ध्यान आकर्षित करना।

बी.ए. प्रथम वर्ष (ऐच्छिक हिंदी द्वितीय सत्र) प्रश्नपत्र - 1 उपन्यास साहित्य

कोर्स का परिणाम (Course Outcomes)

- छात्रों को हिंदी के प्रतिनिधि कहानीकारों से परिचित कराना।
- छात्रों को कहानी साथ साहित्य एवं विकास का परिचय कराना।
- कथा यात्रा की कहानियों का संवेदना तथा शिल्पगत परिचय कराना।
- छात्रों को व्यंग का स्वरूप एवं विकास का परिचय कराना।
- हरिशंकर परसाई के व्यक्तित्व एवं कृतित्व का परिचय छात्रों को कराना।

बी.ए. द्वितीय वर्ष (ऐच्छिक हिंदी द्वितीय सत्र) प्रश्नपत्र - 1 सामान्य हिंदी

कोर्स का परिणाम (Course Outcomes)

1. छात्रों को गद्य के विविध आयाम का परिचय कराना।
2. साहित्य आस्वादन अभिरुचि का परी संस्कार कराना।
3. साहित्य को जीवन मूल्यों के प्रति आस्था निर्माण कराना।

4. छात्रों को पाठ्यक्रम के माध्यम से अत्याधुनिक इलेक्ट्रॉनिक माध्यमों का परिचय कराना।
5. छात्रों को व्यवसायिक पत्र लेखन की पद्धति से अवगत कराना।
6. छात्रों में भाषा कौशल कला को विकसित कराना।
7. छात्रों में अंग्रेजी से हिंदी में अनुवाद कराने की कला को विकसित कराना।

बी.ए. द्वितीय वर्ष (ऐच्छिक हिंदी द्वितीय सत्र)

प्रश्नपत्र - V कथेत्तर गद्य साहित्य

कोर्स का परिणाम (Course Outcomes)

1. छात्रों को हिंदी कथेत्तर गद्य संवेदना की परंपरा का परिचय कराना।
2. छात्रों को हिंदी आत्मकथा विधा तथा यात्रा साहित्य का उद्भव और विकास का परिचय कराना।
3. छात्रों को हिंदी के प्रतिनिधि निबंध कारों से परिचय कराना।
4. छात्रों को देवनागरी लिपि का उद्भव और विकास का परिचय कराना।
5. परिभाषिक शब्दावली के माध्यम से हिंदी शब्दों से परिचित कराना।

बी.ए. द्वितीय वर्ष (ऐच्छिक हिंदी)

प्रश्नपत्र - VII आधुनिक हिंदी कविता

कोर्स का परिणाम (Course Outcomes)

1. छात्रों को आधुनिक हिंदी कविता की विशेषताओं से परिचित कराना।
2. छात्रों को लंबी कविता की रचना विधान से परिचय कराना।
3. भूमिजा (खंडकाव्य) नागार्जुन की रचना का परिचय करना।

बी.ए. तृतीय वर्ष (ऐच्छिक हिंदी)

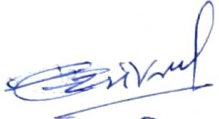
प्रश्नपत्र - VII आदि तथा मध्यकालीन हिंदी साहित्य का इतिहास

कोर्स का परिणाम (Course Outcomes)

1. हिंदी साहित्य के आदि कालीन और मध्यकालीन इतिहास को अवगत कराना।
2. हिंदी साहित्य की दार्शनिक पूर्व टीका से परिचय कराना।
3. हिंदी साहित्य के आदि कालीन और मध्यकालीन कालजर्ई रचना तथा रचनाकारों का सामान्य परिचय कराना।
4. हिंदी साहित्य के इतिहास का परिचयात्मक अध्ययन कराना।
5. हिंदी साहित्य के इतिहास के आदिकाल भक्तिकाल रीतिकाल का अध्ययन कराना।

बी.ए. तृतीय वर्ष (ऐच्छिक हिंदी)
प्रश्नपत्र - XIV आधुनिक हिंदी साहित्य का इतिहास
कोर्स का परिणाम (Course Outcomes)

1. हिंदी साहित्य के आधुनिक काल के इतिहास का परिचय कराना।
2. आधुनिक हिंदी साहित्य की राजनीतिक सामाजिक धार्मिक और स्थितियों का परिचय कराना।
3. आधुनिक हिंदी साहित्य के रचनाकारों का व्यक्तित्व एवं कृतित्व का सामान्य परिचय कराना।
4. आधुनिक हिंदी साहित्य के भारत के योग द्विवेदी युग प्रगतिवाद प्रयोगवाद नई कविता का विकास का अध्ययन कराना।


हिंदी विभागाध्यक्ष


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**S.M. Dnyandeo Mohekar Mahavidyalaya Kalam
Department of Economics**



Programme Specific Outcome

On Completion of B.A. Economics students are able to

1. Understand the basic concepts of economics.
2. Analyze financial behaviour in practice.
3. Understand financial pathway thinking.
4. Analyze historical and current events from an economic perspective.
5. Prepare students for diverse challenging careers through innovative ways of teaching and research.
6. Clearly articulates the economic approach to understand various economic problems.

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S.M. Dnyandeo Mohekar
Mahavidyalaya, Kalam**

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Course Outcomes
COs Economics

B.A. FY Economics Micro-economics (Eco-101)

On completion of the course students are able to

1. Students are able to understand the meaning, nature, scope, importance and limitations of Microeconomics
2. Understanding the Concept of Welfare Economics
3. Understanding Elasticity of Demand
4. Toward Understanding the Marshallian Approach: The Theory of Diminishing Marginal Utility Consumer Surplus.
5. Understand the meaning and importance of equilibrium.

B.A. FY Economics Indian Economy (Eco-102)

On completion of the course students are able to

1. Understanding the concepts under growth and development.
2. Students are able to conceptualize and measure poverty.
3. Understanding Demographic Transition Theory and India.
4. Understand population and economic growth.
5. Understand rural and urban infrastructure.

B.A. FY Economics Price Theory (Eco-103)

On Completion of the course student are able to

1. To understand the concept of production function.
2. Students are able to construct short run and long run cost curves.
3. Understand the meaning and characteristics of perfect competition, pricing under perfect competition.
4. Understanding the marginal productivity theory of distribution.
5. Understand profit uncertainty and innovation theories of profit.

B.A. FY Economics Money and Banking in India (Eco-104)

On completion of the course students are able to

1. To understand the definition of money, paper money and its types.
2. Students competent in banking structure in Indian Regional Rural Banks, State Co-operative Banks and BABARD.
3. To understand the nature and functions of Indian money market.
4. To understand the evolution of RBI.
5. Students understand the qualitative and quantitative methods of credit control.



B.A. SY Economics Macro-economics (Eco-105)

On completion of the course students are able to

1. Understand macroeconomics analysis.
2. To understand the concept and measurement of national income.
3. Understand classical and Keynesian theories of production and employment.
4. The student will be able to perform the consumption and investment functions.
5. To understand the meaning of inflation, increase in demand and increase in expenditure, causes, effects, measures to control inflation.

B.A. SY Economics Development and Planning (Eco-106)

On Completion of the courses, students are able to

1. Understand the difference between economic growth and development, indicators of economic development.
2. Understanding the classical theory of development of Karl Marx in theory of development.
3. Discuss the role of agriculture in economic development.
4. To understand infrastructure and its importance in economic development.
5. Understanding the importance of planning.

B.A. SY Economics Public Finance (Eco-107)

On Completion of the course student are able to

1. Students able to understand the meaning and scope of public finance.
2. To understand the mining and objectives of fiscal policy.
3. Understand the concept of public revenue.
4. To understand the impact and burden of taxes.
5. Understand the meaning classification of public expenditure.

B.A. SY Economics Statistical Methods (Eco-108)

On completion of the course student are able to

1. Student able to meaning definition, scope and importance of statistics data.
2. To understand mean, median and mode.
3. To understand measures of dispersion mean deviation and standard deviation simple correlation Karl Persons method.
4. To understand index number Laspeyre, Pasche and Fisher's Methods.



B.A. TY Economics International Economics (Eco-109)

After completing the course students are able to

1. To understand the importance of International Economics, interregional and international trade
2. Understand the gains from international trade and their measurement
3. To understand free trade and tariff policies in the context of economic growth with special reference to India.
4. Understanding the foreign exchange market
5. Students able to understand Balance of Payment concepts and components

B.A. TY Agricultural Economics (Eco-110)

After completing the course students are able to

1. To understand the role and importance of agriculture in economic development
2. To discuss the concept of contract formation.
3. Students understand technology in agricultural traditional techniques and practices
4. Understanding Agricultural Pricing Policy.
5. To understand the overview of agricultural development under employment and non-employment in the rural economy.

B.A. TY History of Economic Thought (Eco-111)

After completing the course students are able to

1. Understanding the key features of Mercantilism Thomas Man Physiocracy, the natural system of agriculture
2. Student can state the theory of value.
3. To understand Thomas Malthusian theory of population.
4. Understand Marshall's great synthesizer role of time in pricing economic methods
5. To understand the role of fiscal policy.

B.A. TY Economics Research Methodology (Eco-113)

After completing the course students are able to

1. Understanding the nature scope and purpose of social science research.
2. Students capable of conducting descriptive, diagnostic and experimental research.
3. To understand primary and secondary data collection.
4. Students are able to understand data presentation and analysis.



B.A. TY Economics Industrial Economics (Eco-114)

After completing the course students are able to

1. To understand the need, importance and role of industries in economic and social development.
2. Understanding Industrial Structure in India.
3. Understanding the theory of industrial location.
4. Students are competent in agro processing industry.
5. College and village industries and understanding of rural industrialization.

B.A. TY Economics Indian Economic Thinkers (Eco-115)

Students who complete a course are able to

1. To understand the economic thought of Kautilya economic policies, welfare state theory of taxation.
2. To understand the financial ideas of Navroji, M.G. Randre and R.C. Dutt.
3. Students capable of Mahatma Gandhi Sarvodaya, Gramswaraj economic thought.
4. To understand Dr. B.R. Ambedkar State Socialism Problems of Rupee.
5. Understand Amartya Sen's Economic Thoughts for Social Welfare.

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Department of History



Programme Specific Outcome

1. To understand the importance of history in school and college curriculum and life.
2. To acquaint student teachers with various methods of conducting a history course.
3. Developing pedagogical and textbook analysis skills.
4. Understanding the importance and organization of co-curricular activities in the teaching of history.
5. Develop skills in creating and using learning resources.
6. Understanding the multifaceted role of the history teacher in the current context.
7. Develop a research question and complete a supported historical essay about it.


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Course Outcomes

COs: History

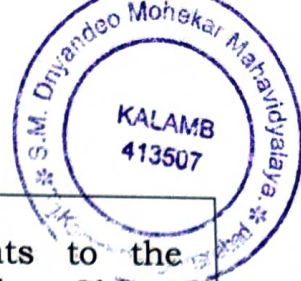
Sr. No.	Class	Course/ Paper	Course Outcomes (COs)
1	B.A. FY	Paper – I Chatrapati Shivaji and his times (1630-1707)	<ol style="list-style-type: none">1. To acquaint the students with the affairs of Shivaji Maharaj.2. To provide an insight into the Mughal rulers and the Maratha Empire.3. To introduce an international element in the study of the Marathas to facilitate a comparative analysis of history.4. To understand the socio-economic, cultural and political background of 17th century Maharashtra.5. Highlighting the importance of the past in exploring the present context.6. To provide value based ideological and thought provoking.7. The spirit of nationalism and secularism should be inculcated in the students.
2	B.A. FY	Paper – II History of Modern Maharashtra (1818-1905)	<ol style="list-style-type: none">1. To acquaint the students with the basic information about the development status of Maharashtra.2. To provide high quality education to students in the context of Maharashtra.3. To discuss and summaries current issue in the area of social, religious reform movement in 19th century Maharashtra.4. To develop ability of critical and logical thinking of Indian society.5. To develop the knowledge and understanding about ideas of leaders and movements.



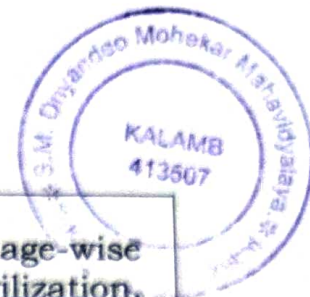
3	B.A. FY	Paper – III History of Maratha (1707-1818)	<ol style="list-style-type: none">1. Imbibing the concept of Maratha history.2. To get information about administration from Chhatrapati to Peshwa.3. Analyzing and evaluating historical information from multiple sources of Maratha history.4. Discuss the religious policies of Chhatrapati Shivaji Maharaj and the background of healthy nationalism in India.
4	B.A. FY	Paper – IV Twentieth Century Maharashtra (1905-1960)	<ol style="list-style-type: none">1. To make interest to read the biographies and original material of persons closely associated with Maharashtra in the 19th century.2. Student understands the concept of history of modern Maharashtra.3. History of Modern Maharashtra is useful for students for MPSC exam.4. Knowledge of the concept was gained by studying the history of Lokmanya Tilak in the Indian National Movement.
5	B.A. SY	Paper – V Ancient India (upto- B.C.300)	<ol style="list-style-type: none">1. Students can examine the institutional basis of ancient India2. Students will be able to describe the development of an empire3. When students study ancient Indian history, they learn about the basic culture, religion and society.4. Students should be able to discuss any social topic.
6	B.A. SY	Paper – VI History of Delhi Sultanat (AD1200- 1526)	<ol style="list-style-type: none">1. To analyze the administrative system of Delhi Sultan.2. To review the socio-religious, cultural structure of the Sultanat period.3. Students understood the concept of History of Delhi Sultanat.



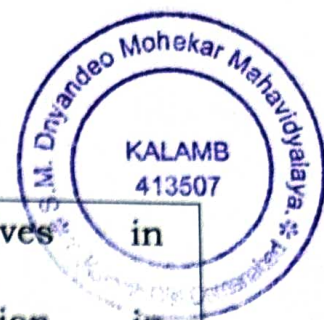
7	B.A. SY	Paper – VII History of Mughal India (AD1526- 1757)	<ol style="list-style-type: none">1. Survey the sources of history of medieval India.2. Understand the social, economic, religious foundations of medieval India.3. Study medieval Indian art and architecture.4. To understand the concept of History of Mughal India.
8	B.A. SY	Paper – VIII History of India (B.C.300 – AD650)	<ol style="list-style-type: none">1. To depict the many cultures of ancient India.2. Interpreting your heritage through.3. Students have understood the concept of History of India.
9	B.A. TY	Paper – IX Historiography	<ol style="list-style-type: none">1. To understand the concept of historiography and its various approaches.2. Difference between primary sources and secondary sources and importance of sources.3. Basics of research do's and don'ts and its methodology.4. Gain the ability to interrogate and challenge existing paradigms.
10	B.A. TY	Paper – X History of Indian freedom Movement (AD.1885- 1947)	<ol style="list-style-type: none">1. To understand the process of emergence of modern India.2. Process of healthy nationalism and secularism by studying the works of socialists and freedom fighters.3. To know the makers of modern India.4. To understand the socio-economic, cultural and political background of modern India.



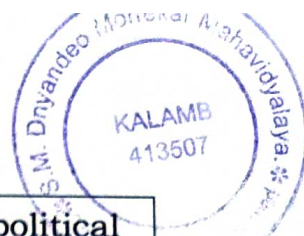
11	B.A. TY	Paper – XI History of Modern China (AD1900- 1950)	<ol style="list-style-type: none">1. To introduce students to the political history of modern China.2. To explain the issues of China's background history to the students.3. Students understand the process of the emergence of modern China.4. To introduce students to the manufacturers of modern China.
12	B.A. TY	Paper – XIII Field of History (Archaeology, Museology, Tourism)	<ol style="list-style-type: none">1. Collecting materials related to ancient history.2. They are interested in visiting museums and archives.3. They are interested in visiting historical places and caves, temple art architecture.4. Students like to read historical maps, biographies and related novels.
13	B.A. TY	Paper – XIV Land marks in the History of Modern world	<ol style="list-style-type: none">1. To make students understand the process of colonialism in different parts of the world.2. The relationship between modernity and nationalism and its meaning.3. History in the light of its background to the problems of the contemporary world.4. Realization of the need for universal brotherhood.
14	B.A. TY	Paper – XV Glimpses of the History of Marathwada	<ol style="list-style-type: none">1. Understanding the meaning of local history.2. They collect art, coins and other material related to Marathwada policy.3. To prepare study tour reports properly.4. To take interest in seeing the historical places like forts, architecture etc. of Marathwada.



15	M.A. I	HIS-401 History of India upto 300 B.C	<ol style="list-style-type: none">1. To understand the stage-wise development of civilization, morality, ethics and culture.2. To know the progress of cultural history in India.3. To provide a comprehensive overview of pre-historic development in India.4. To understand the historical cultural heritage of our country through archaeological context.5. To give an account of megaliths and their cultural background in peninsular India after Harappan urbanism and other Chalcolithic cultural developments in India.6. To know the development of architecture and sculpture in the early historical period.7. To introduce students to archeology and the methods used by archaeologists.
16	M.A. I	HIS-402 20 th century world (upto end of World War II)	<ol style="list-style-type: none">1. Understanding and analyzing the nature of World War II and political discourse in the twentieth century.2. To understand the trends in the history of World War I and II.3. To study the historical perspective of developed, developing and underdeveloped nations.
17	M.A. I	HIS-403 State, Society and Culture of India (300 B.C. - 500 A.D.)	<ol style="list-style-type: none">1. To inculcate skills among students regarding politics, economy and society.2. To understand the past of 300 B.C. - 500 A.D.
18	M.A. I	HIS-404 Polity in Medieval India	<ol style="list-style-type: none">1. Understand Politics in Medieval Indian History.2. Understand the sources and historiography of medieval Indian history.3. Evaluate the approach of medieval Indian history by modern historians.



			<p>4. Understand Perspectives in Medieval Administration.</p> <p>5. Evaluate Administration in Medieval Indian History.</p>
18	M.A. I	<p>HIS-421</p> <p>Course Title- Socio- Religious Movements in Maharashtra (1200-1700 A.D.)</p>	<ol style="list-style-type: none">1. To study the approach of Bhakti movements by modern thinkers.2. To understand the ideology and opposition of religious classes to the social structure of medieval Indian society.3. To provide an insight into the nature of religious ideas, forms, language and literature during ancient times.4. To understand the rise of religious movements.
19	M.A. II	<p>HIS-423</p> <p>History of the Marathas 1600 to 1707</p>	<ol style="list-style-type: none">1. To understand the political history of Chhatrapati Shivaji.2. To guide the learners to gain proper understanding of Shivaji's administration and importance of his politics on agriculture, trade and religion.
20	M.A. II	<p>HIS-424</p> <p>Nineteenth century India</p>	<ol style="list-style-type: none">1. To understand the nature of politics, society, culture in India before and after the entry of the British.2. To study the policies of the British East India Company.3. To evaluate the impact of the British East India Company on Indian society.4. An assessment of the political and cultural conditions of nineteenth century India.
21	M.A. II	<p>HIS-429 - Politics in Medieval India</p>	<ol style="list-style-type: none">1. To understand the development of political and social thought in the history of India from ancient times to the colonial period.2. To study the development of thought enabling students to critically evaluate political and social thought through historical process.



22	M.A. II	HIS-430 History of the Marathas (1707-1818)	<ol style="list-style-type: none">1. To understand the political development of 18th century India and Deccan in particular.2. To study the developed social and economic institutions in Maharashtra.3. To give a brief account of the political economy and architecture of the Marathas.
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Department of Sociology




Programme Specific Outcome

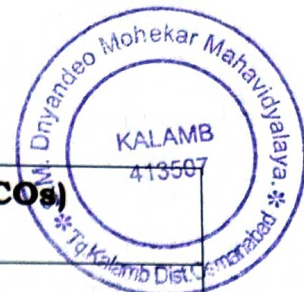
The basic objectives of teaching sociology are

1. To make students aware of social problems and to study the contribution of social reformers in solving these problems.
2. Analyzing society as a whole and suggesting solution to social problems.
3. To provide human resources in the field of social welfare.
4. Involvement of students in social programs and social movements.
5. To develop sociological perspective in students.
6. To inculcate the importance of gender equality, social and political equality.

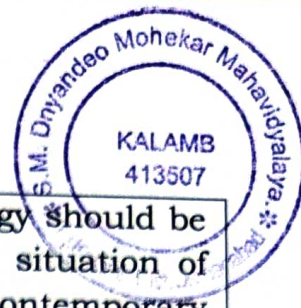

prof. E. L. Rathod
Head, Department of sociology


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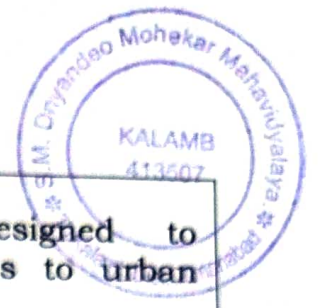

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Sr. No.	Class	Course/ Paper	Course Outcomes (COs)
1	B.A. FY	Paper – I Introduction to Sociology	<ol style="list-style-type: none"> 1. Define sociology and mention the nature, scope and subject matter of sociology. 2. Basic concepts of sociology like society, community organization, culture, social change, social stratification etc. 3. Know the basic social institutions family, marriage relations scientifically.
2	B.A. FY	Paper – II Individual and Society	<ol style="list-style-type: none"> 1 Define theory and describe and explain its role in the creation of sociological knowledge. 2 Show how global processes shape local social structures and influence individuals. 3 Impact of globalization on inequality and diversity.
3	B.A. FY	Paper – III Introduction to subfields of Sociology	<ol style="list-style-type: none"> 1. Nature and scope of urban sociology. 2. Subject matters of Rural Sociology. 3. Development of Social Anthropology in India. 4. A sociology student must have Knowledge of different areas to understand the scope of Sociology.
4	B.A. FY	Paper – IV Indian social Composition	<ol style="list-style-type: none"> 1. Bonds of unity in India. 2. Agricultural transformations. 3. This course also gives an idea about the democratic beauty of India.
5	B.A. SY	Paper – V Problems of Rural India	<ol style="list-style-type: none"> 1. It is very important to focus on the study of rural development in a country like India. 2. A large section of the population still lives in rural areas.





			3. This student of Sociology should be aware of the changing situation of rural India and the contemporary problem of rural development.
6	B.A. SY	Paper – VI Contemporary Urban Issues	<ol style="list-style-type: none"> 1. Urbanization is an irreversible process all over the world as in India. 2. This raises several issues of resource planning and distribution. 3. This course is designed to develop understanding and analytical abilities in students about urbanization, urban communities, urban planning and civic issues.
7	B.A. SY	Paper – VII Population in India	<ol style="list-style-type: none"> 1. This course is designed to understand the causes and effects of population change. 2. Population is a determining factor that is seen throughout society. 3. This course is designed to understand population dynamics.
8	B.A. SY	Paper – VIII Sociology of Development	<ol style="list-style-type: none"> 1. Development is a pervasive and important process that affects society. 2. Human society has evolved in several stages. 3. This course provides a broad introduction to several development related issues in India.
9	B.A. TY	Paper – IX Sociological Traditions	<ol style="list-style-type: none"> 1. To provide students with an understanding of the historical socio-economic and intellectual forces that underlies the emergence of sociological theories. 2. Students who have basic knowledge of sociological evolution and knowledge of leading sociologists present their theories.
10	B.A. TY	Paper – X Research Methodology	<ol style="list-style-type: none"> 1. This course is designed to introduce and understand the concept of research methodology to undergraduate students.



11	B.A. TY	Paper – XI Urban Sociology	<ol style="list-style-type: none">1. This course is designed to introduce the students to urban sociology.2. To draw the attention of the students towards the fundamentals of the subject and the increasing urbanization.3. Sociological thought knowing the theoretical contributions of eminent sociologists of his time.
12	B.A. TY	Paper – XIV Social Research Methods	<ol style="list-style-type: none">1. The course can serve as a helping hand to students to understand primary technique and the use of social research.2. The course is designed in the view of increasing use of computers and statistical tools in social research.
13	B.A. TY	Paper – XV Urban Society in India	<ol style="list-style-type: none">1. This course is designed to analyze critically social problems of urban Indian and to discuss regarding impact of motorization and Industrialization on Indian Urban sphere.


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S.M. Dnyandeo Mohekar Mahavidyalaya Kalam
Department of Political Science

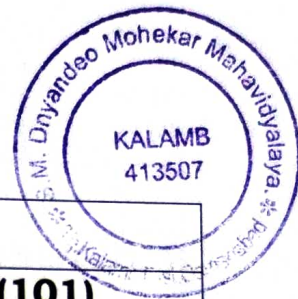
Programme Specific Outcome

1. Information about the political system of the nation.
2. Study of national and international political affairs.
3. To acquire knowledge of Constitution of India and other countries.
4. To understand the government system, its functions, duties and responsibilities.
5. Students can work as politicians, teachers in colleges and higher.
6. Schools can do administrative work in NGOs along with election work.
7. Prepare for competitive exams and get admission in MA, LLB MSW, MBA etc.
8. Identify skilled leaders and select them accordingly.


Head of dept the
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Class & Subject	B.A. F.Y. Political Science
Name of Paper	Basis Concept of Political Science (101)

Course Outcomes

1. Evaluation of Theories of State (Origin, Nature, Function)
2. Definition of the Concept of Sovereignty of States Analyze the changing concept of sovereignty in the context of globalization.
3. Understanding of institutions and government.

Class & Subject	B.A. F.Y. Political Science
Name of Paper	Government and Politics of Maharashtra (102)

Course Outcomes

1. Understand the Historical and political background in Maharashtra state.
2. Knowledge of Legislature, Executive and Judiciary : Composition and functions.
3. Student of the course will get though knowledge of social political movement.

Class & Subject	B.A. F.Y. Political Science
Name of Paper	Basic Concept of Political Science (103)

Course Outcomes

1. To understand the basic concepts of freedom, equality, rights and justice.
2. Students will understand the true meaning of democracy and will try to implement the functions in the society.
3. A student will be able to enlighten the people of the society by acquiring the knowledge of the welfare state.



Class & Subject	B.A. F.Y. Political Science
Name of Paper	Government and Politics of Maharashtra(104)

Course Outcomes

1. Developing leadership at the local level.
2. Understanding the Panchayat Raj system of Maharashtra.
3. The student understands the functioning of the main political parties operating in the system

Class & Subject	B.A. S.Y. Political Science
Name of Paper	Indian Government and Politics (105)

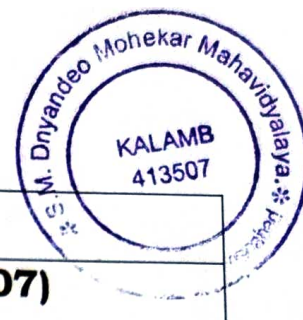
Course Outcomes

1. Understand the basic structure of Indian Constitution.
2. To understand the main constitutional provisions.
3. Access to information on budgetary process and parliamentary committees.

Class & Subject	B.A. S.Y. Political Science
Name of Paper	International Relations (106)

Course Outcomes

1. Knowledge of key theories and concepts in international relations, historical development institutions and modern issues.
2. Enable students to discuss main international relations approach.
3. Students can appreciate the defining characteristics of foreign policy and its relevance.



Class & Subject	B.A. S.Y. Political Science
Name of Paper	Indian Government and politics (107)

Course Outcomes

1. Understand the Centre-State relationship.
2. Students are able to evaluate the development, functioning and results of political parties in India.
3. Enables students to recognize how election rules and procedures affect Indian election results.

Class & Subject	B.A. S.Y. Political Science
Name of Paper	International Relations (108)

Course Outcomes

1. Study of India's relations with neighboring countries.
2. To identify the various issues and challenges in international relations.
3. Study of international and regional organizations.

Class & Subject	B.A. T.Y. Political Science
Name of Paper	Indian Political Thinkers (109)

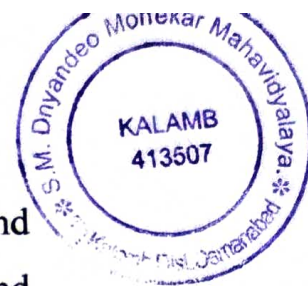
Course Outcomes

1. To get information about Indian intellectuals and their political views.
2. Comparative study of ancient thought and modern thought.
3. Understand the thoughts of Lokmanya Tilak and Mahatma Gandhi.

Class & Subject	B.A. T.Y. Political Science
Name of Paper	Western Political Thinkers (110)

Course Outcomes

1. To acquire knowledge about western political thinkers and their views on statecraft.



2. Examine political thought through the classical, Renaissance and Enlightenment periods, based on the work of Plato, Aristotle and Machiavelli.

Class & Subject	B.A. T.Y. Political Science
Name of Paper	Political Ideologies (111)

Course Outcomes

1. To understand the interpretation of the ideology of nationalism and liberalism.
2. Apply the knowledge of his ideology to current political issues.

Class & Subject	B.A. T.Y. Political Science
Name of Paper	Indian Political Thinkers (112)

Course Outcomes

1. Students can gain knowledge of Maulana Azad's views on religion and nationalism
2. Learn about Dr. Babasaheb Ambedkar's ideas of democracy and his views on religion and society.

Class & Subject	B.A. T.Y. Political Science
Name of Paper	Western Political Thinkers (113)

Course Outcomes


1. Explain the different versions and significance of the state of nature for political thought.
2. Explain John S. Mill's theory of utilitarianism and how he applies it to society and the state.
3. Explain the cosmology of Karl Marx.



Class & Subject	B.A. T.Y. Political Science
Name of Paper	Political Ideologies (114)

Course Outcomes

1. Explain and analyze political ideologies as they apply to modern political issues.
2. Students will gain knowledge of fascism, anarchism, communism and socialization ideologies.


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Department of Physical Education
Programme Specific Outcome



At the end of the course the students gain the following knowledge

1. Basic structure and functions of the human body.
2. Normal moments of the human body.
3. Effect of exercise on various systems of the human body.
4. School Health Programme.
5. Need and importance of health, yoga and physical education.
6. Principles of nutrition.
7. Application of knowledge of health, yoga and physical education.
8. To treat the injuries of the student and to keep the student healthy and fit.
9. Students will be able to plan and implement all appropriate developments.
10. Learning experiences based on developmental level.
11. Students will be able to foster mutual respect, responsibility for self, leadership, problem solving and team building.
12. This curriculum will develop students' ability to enhance learning and engage in lifelong physical activity.
13. Be able to advocate for physical activity in school and the larger community.

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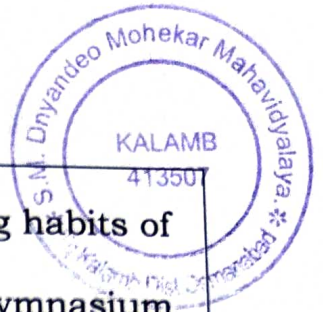
Course Outcomes

COs: Physical Education

Sr. No.	Class	Course/ Paper	Course Outcomes (COs)
1	B.A. FY	Paper – I Philosophical, Sociological Foundations and History of Physical Education	8. Acquaint the student with importance of Physical Education & its principles. 9. Student will be given knowledge of growth, development and learning procedures. 10. All round development of students. 11. Promote various life-skills.
2	B.A. FY	Paper – II Principles and Recent Developments of Physical Education	1. History of Physical Education. 2. Comparative study of Physical Education in present situation. (Ancient and Modern Sports) 3. The recent development in Physical Education (Update Knowledge)
3	B.A. SY	Paper – III Health, Education and Recreation in Physical Ed. & Sports	At the end of the program the students will gain the following 1. Personal health. 2. Knowledge about various diseases and epidemics as well as the precautions. 3. National & international health status 4. The principles of nutrition. 5. Fitness concepts which affects one's life cycle. 6. Balanced diet and calories. 7. Need of healthy diet and rest. 8. Personal, social and National cleanliness.



4	B.A. SY	Paper – IV Officiating, Coaching and Training Methods in Physical Ed. & Sports	<ol style="list-style-type: none">1. Students know about officiating in their selected sports.2. They also know the different rules and regulations in the games.3. They can achieve their goals through the knowledge of science of Sports Training very easily.4. The Indian games history, fundamental skills and advanced skills can be achieved through this knowledge.5. Students can know the different training methods and overcome their training problems.
5	B.A. TY	Paper – VII Ancient and Modern History of Physical Ed. & Sports	<ol style="list-style-type: none">1. Student studied the historical background of ancient Indian period, medieval and the modern period.2. They can know the games development.3. Students can know the different sport institutions and sport organizations.4. The study promotes the students' active participation and interest in the subject.
6	B.A. TY	Paper – VIII Sports Psychology and Management in Physical Education	<ol style="list-style-type: none">1. The player knows about sports psychology through this study.2. They can know the psychology in sports.3. This study gives the knowledge about the general nature of growth and development.4. The study of the paper develops the knowledge about management in Physical Education and sports.



7	B.A. TY	Paper – IX Organization, Administration and Supervision in Physical Ed., Youth Welfare and Youth Services	<ol style="list-style-type: none">1. The basics for life lasting habits of physical exercise.2. Traditional types of gymnasium and playgrounds games.3. Ample opportunities to develop motor skills of body.4. The organization and administration of physical education and sport events.
8	B.A. TY	Paper – X Anatomy, Physiology and Kinesiology of Physical Ed.	<p>At the end, the students gain the following knowledge about</p> <ol style="list-style-type: none">1. Basic of Human Anatomy and Physiology.2. Human organs/lungs and hormones secretion.3. Exercise and its effects on health


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DEPARTMENT OF HOME SCIENCE
Programme Specific Outcome



COs: Home Science

B. A. Home Science B.A. F.Y. Paper-I: Family Resource Management

1. To understand the family resources.
2. To acquire knowledge about the management process.
3. To develop ability to improve the work within less time, less resources & Fatigue.
4. To understand types of saving, investments, make an income wise house budget.
5. To improve knowledge through consumer education.

B.A. F.Y. Paper- II Food & Nutrition:

1. Role of food and functions of nutrient.
2. Different sources and deficiencies of nutrients
3. Students can improve the nutritional quality of food & nutrition.
4. Develop practical skills & abilities.
5. To aware about own health & family.

B.A. F. Y. Paper - III Human Developments [Prenatal & Early Childhood]

1. To understand reproductive system of men & women.
2. To understand the importance of prenatal development.
3. To understand psychological problems of infancy & all over development of child.
4. To provide an overview of behavioral problems of early childhood & child rearing practice and effect on personality development.

B.A. F.Y. Paper- IV [Textile & Clothing]

1. To improve ability for proper choice of fabrics.
2. To impart knowledge regarding textile & clothing.
3. To develop creative & technical skills in clothing construction.
4. To enable students to develop skills in embroidery.
5. To encourage entrepreneurship



B.A. S.Y. Paper-V [Extension Education]

1. To understand the importance & need of home science extension education.
2. To understand the process of communication in development work.
3. To get acquainted with the terms in extension approaches & models.
4. To know about the extension work & services under home science extension.

B.A. S.Y. Paper-VI [Textile & Clothing]

1. To impart knowledge about the basic principles of design & painting.
2. To develop knowledge & skill about wardrobe planning, selection of clothes for different age group, texture & fabric.
3. To know about important aspects of clothing.

B.A. S.Y. Paper-VII Child Development-[Late childhood & Adolescent]

1. To appreciate the sequential stages of development during the childhood.
2. To understand the behavioral problems during late childhood.
3. To aware need & skills to be developed for self-improvement.
4. To know the development & behavior during adolescence.

B.A. S. Y. Paper-VIII Food& Nutrition

1. To understand the concept of an adequate diet & importance of meal planning.
2. To gain acquaintance with human gastro intestinal tract.
3. To know different methods of food preservation.
4. To understand nutrient needs for various age groups.
5. To be aware of effect of food poisoning & food adulteration.

B.A.T.Y. Paper -IX Marriage & Family Dynamics

1. To understand the merits & demerits of marriage & family.
2. To understand adjustments in marriage & family.
3. To learn the laws related to women, marriage and family.
4. To develop awareness about counselling.

B.A.T.Y. Paper -X Housing & Interior Decoration

1. To recognize the role of housing the integrated development.
2. To know essentials of interior decoration.
3. To study the landscape designing & its application.



B.A.T.Y. Paper-XI Nutritional Management in Health & Diseases

1. To know the principles of diet therapy.
2. To understand the role of dietician.
3. To understand the modification of normal diet for therapeutic purpose.

B.A.T.Y. Paper-XIII Human development [Adulthood & Oldage]

1. To know different aspects in adulthood.
2. To understand adjustments during adulthood.
3. To understand the nature of developmental pattern in adulthood & old age.


B.A.T.Y. Paper XIV Fundamental of Art & Design

1. To understand elements and principles of art & design.
2. To apply various colours and harmonies in design.
3. To develop skills in creating design & making art objects.

B.A.T.Y. Paper- XV Communication process in Home-science

1. To understand the roll of communication in development.
2. To learn the process of communication effects of media.
3. To develop the skill in students about the use of communication methods & media.
4. To enable qualities of leadership in the students.
5. To know the importance of programme, planning, implementation, evaluation of programme.


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Principal
S.M. Dnyandeo Mohekar
Mahavidyalaya, Kalam

S. M. Dnyandeo Mohekar Mahavidyalaya Kalamb

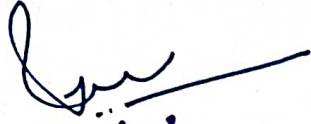
Department of Geography

Program Specific Outcomes (POs)

After completion of course the students are expected...

1. To understand the basic concepts of geography and its relevance in daily life.
2. To understand and analyze the regional geography of the world and India
3. Read and interpret maps and topographic sheets to visualize different aspects of space.
4. To critically examine and evaluate a wide range of spatial aspects of networks at different time scales, from global to local.
5. To understand various survey methods and acquire survey skills.
6. To understand basic statistical analysis and its application in geography.
7. To identify skill development in geographic studies programs as careers in diverse fields such as teaching, research and administration with the ability to effectively assess geographic issues.


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COURSE OUTCOMES

COs: Geography



Paper-I Elements of Physical Geography

1. To understand the meaning, scope and basic concepts of physical geography.
2. Understand the functioning of the Earth system and analyze geological, climatic and oceanic factors.
3. Understand the relationship between man and biosphere.

Paper-II Human Geography

1. To understand the meaning, scope, approaches and basic concepts of Human Geography.
2. To understand the patterns and processes of population growth, distribution, migration and human settlement.
3. To understand and analyze the pattern of economic activities especially agriculture, industry, transport and trade
4. To appreciate the factors responsible for the location and distribution of activities.
5. To understand and appreciate local patterns of social and cultural processes.

Paper-III Human Geography

1. To understand the concept of soil erosion and excessive use of fertilizers.
2. Understand landforms created by rivers, wind and ocean waves.
3. Students will identify land use practices and solutions to address land pollution problems.

Paper-IV Regional Geography of Maharashtra

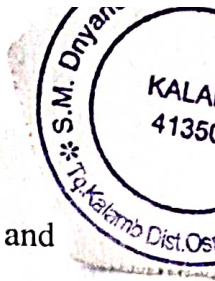
1. Students will understand the concept of regions and geographical diversity of Maharashtra.
2. They will understand the climate of Maharashtra and its effect on human beings.
3. Students will get to know about cotton sugar and other industries of Maharashtra.

Paper-V Practical

1. Students will be aware of the concept of cartography and its uses.
2. Students will learn the concept and classification of maps.
3. They know different ways of showing relief.

Paper-VI Climatology

1. To obtain a comprehensive description of the Earth's climate at various geographic scales.
2. Understanding the basic physical principles of climate.
3. To develop models of Earth's climate to predict future changes due to natural and human causes.



Paper-VII Population Geography

1. To understand the clear concepts of population geography, demographic studies and settlement geography.
2. To understanding of nature, scope and evolution of population geography through spatial and temporal frameworks, population dynamics, world population and development with special reference to India.
3. Acquiring, handling and analyzing population data both at the grassroots level and secondary sources
4. Students will acquaint the reasons of migration and its consequences.

Paper-VIII Oceanography

1. To understand the concept of oceanography.
2. Analyze and evaluate scientific data to create a conclusion about oceanographic processes
3. Explain interrelationships of oceans to other Earth Systems
4. To understand the ocean biodiversity.

Paper-IX Settlement Geography

1. To understand of settlement.
2. To know the concepts associated with settlement theories and different growth and morphology of settlements.
3. To understand the hierarchy of settlement and urban settlement.

Paper-X Practical Geography

1. To undertake survey exercises in a geographical area and apply different cartographic techniques to map the same.
2. Appreciate how projections are applied to prepare maps from the globe
3. Learning map projections is an integral part of map making and this paper will enable the students to gain insight about various map projection techniques.

Paper-XI Physical Geography of India

1. To understand the various physical elements in the environment.
2. To aware of physical geography of India.
3. To understand various factors affecting the human beings.



Paper-XII Geography of Environment

1. To know the concept of ecosystem.
2. To understand the relation between environment and human beings.
3. To aware of their duties regarding the conservation of resources.

Paper-XIII Industrial Geography of Maharashtra

1. To know about industrial developments in Maharashtra
2. To aware of various agro based industries.
3. To acquaint various job opportunities in Maharashtra.

Paper-XIV Agriculture Geography of India

1. To understand the concept of agriculture geography.
2. To know the cropping pattern in India.
3. To understand the concept of Green Revolution in India.

Paper-XV Geography of Natural calamity

1. To know about the concept and nature of natural calamity.
2. To aware of earthquake and reasons of outbreak.
3. To understand the manmade factors responsible for occurring these calamities.

Paper-XVI Geography Practical

1. To know about statistics and their value in business.
2. To be aware of extension activities and report writing
3. Students will aware of survey and use of instruments.

Paper-XVII Biogeography

1. To know the essence of biogeography.
2. To recognize the need of plant geography.
3. To aware of zoo-geography and its environmental relationship.

Paper-XVIII (Main) Geography Practical

1. Students will understand the various types of surveys.
2. To understand and implement the chain tape survey.
3. To know various theories of surveys.


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Internal Quality Assurance Cell

PROGRAMME OUTCOMES (COs)
COURSE OUTCOMES (COs)



BACHELOR OF COMMERCE (B.COM)
PROGRAMME OUTCOMES (POs)

On completion of this programme are expected to learn the following

1. Acquire knowledge of accountancy.
2. Entrepreneurial skill.
3. Human Resources Management.
4. Develop managerial skills.
5. Budgeting policy.
6. Well versed with business regulatory framework.
7. Develop knowledge of taxation and Numerical ability.

Head
Dept. of Commerce.

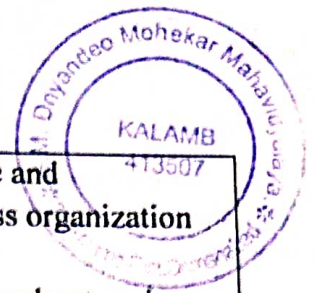
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Principal
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Mahavidyalaya, Kalam

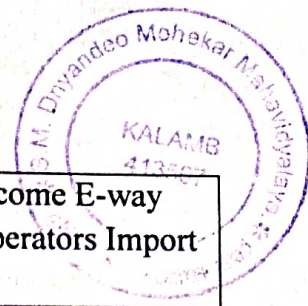
Course Outcomes



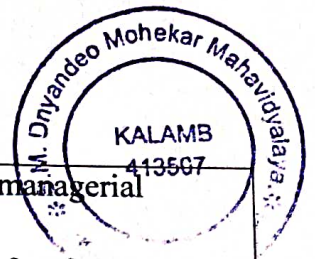
Sr. No.	Course Name	Course/Paper Code	Course Outcome
	B.Com. I	Financial Accounting (3380)	<ol style="list-style-type: none">1. Preparing financial statements in accordance with appropriate standards.2. Interpreting the business implication of fanatical statement information.3. To Introduce the system of mire purchasing4. To introduce the system of Royalty of Penalty.
	B.Com. I	Financial Accounting-I (3359)	<ol style="list-style-type: none">1. To familiarize the concept of Branch account of its system2. Preparing of Non – trading financial statement3. To understand the scope of departmental accounting4. To explain accounting standard.
	B.Com. I	Business Mathematics & Statistics – II (3360)	<ol style="list-style-type: none">1. To prepare for competitive examinations.2. To understand the concept of population & sample.3. To use frequency distribution to make decision4. To use correlation & regression analysis to estimate the relationship between two variables.5. To understand the concept & techniques of different types of index numbers.
	B.Com. I	BC & IT Application	<ol style="list-style-type: none">1. Communication skill of students were developed.2. Personality of students developed3. There is improvement in speaking, learning and interview skill of students.4. Students are able to use computer for Business
	B.Com. I	Entrepreneurship Development –II (3363)	<ol style="list-style-type: none">1. To create entrepreneurial awareness among student.2. To motivate students to make their mind set for taking up entrepreneurship as career3. To evaluate in the business use DPs principles.



	B.Com. I	Business organization and Management (3361)	<ol style="list-style-type: none">1. To provide basic knowledge and understanding about business organization and Management concept.2. To provide an understanding about various functions of organization and Management.3. To study the behaviour of the business organization and management.
	B.Com. I	Computer Application in Business (3386)	<ol style="list-style-type: none">1. To make the students familiar with computer environment2. To make the students familiar with the basic of operating system and business communication tools.3. To make the students familiar with basis of network internet and related concepts.4. To make awareness among students about application of internet in commerce.4. To enable students to develop their own website.
	B.Com. I Year	Business Economics	<ol style="list-style-type: none">1. To expose students of commerce to basic micro economic concept and inculcate an analytical approach to the subject matter.2. To stimulate the student interest by showing the relevance and use of various economic theories.3. To apply economic reasoning to problems of business.
	B.Com. II Year	Cost Accounting (3383)	<ol style="list-style-type: none">1. Aimed to familiarize the concepts of cost accounting2. To facilitate the idea of meaning of material control with pricing method3. To introduce the concept of overhead cost.4. To introduce the concept of overhead cost.
	B.Com. II	Cost Accounting	<ol style="list-style-type: none">1. To familiarize the concepts of single or output costing2. To interpreting the operating costing3. To interpreting the operating costing or service costing4. To introduce the process costing.
	B.Com. II	Goods of services Tax II (3387)	<ol style="list-style-type: none">1. Students acquired knowledge of GST Tax.2. Students are clear in Introduction GST Tax.3. Basis – Reverse charge Mechanism (RCM) Services covered under RCM & Tax on URD.



			4. Students are able to define Income E-way Bill procedure Ecommerce operators Import Export & SEZ Transactions.
	B.Com. II	Insurance	<ol style="list-style-type: none"> 1. Students have some insight about e-service in insurance sector. 2. Students are able to understand online service regarding insurance policy. 3. Students acquired insurance knowledge & skill together with technology familiarity & customer orientation. 4. Students are able to understand online service regarding insurance policy.
	B.Com. II	I.T. Application in Business-II	<ol style="list-style-type: none"> 1. To improve the knowledge of e-commerce 2. To know the information of e-business 3. To enable students to develop their own website.
	B.Com. II	Corporate Accounting (3381)	<ol style="list-style-type: none"> 1. To understand knowledge of new trends in corporate accounting issue of share and redemption share. 2. To enable the students to develop awareness about corporate accounting in conformity with the provision of companies act and accounting as per Indian accounting standards. 3. To enable students to develop skills about accounting standards.
	B.Com. II	Marketing Management	<ol style="list-style-type: none"> 1. To understand the basic concept of marketing 2. To create awareness about market & marketing 3. To know the relevance of marketing in modern competitive word. 4. To develop on analytical ability to plan for various marketing strategy.
	B.Com. III	Auditing II (3041)	<ol style="list-style-type: none"> 1. The study of various components of this course will enable the students. 2. To get knowledge about preparation of Audit report. 3. To acquaint themselves about the concept & principles of Auditing Audit process Assurance standard Tax Audit and Audit of computerized systems.
	B.Com. III	Management –II	<ol style="list-style-type: none"> 1. Students are able to analysis interpret & use



		(3035)	accounting information in managerial decision making. 1. To impart the knowledge of various accounting concepts. 2. Students are able to understand capital Budgeting process Method of capital
	B.Com. III	Banking and Insurance-II (3043)	1. To acquaint the students with the fundamentals of banking and insurance. 2. To make the students aware of banking and insurance Business and Practices. 3. To enlighten the students regarding new concepts introduced in the banking system.
	B.Com. III	Advanced Accounting-II (3029)	1. To impart the knowledge of various accounting concepts 2. To get the knowledge about accounting produces, methods and techniques. 3. To acquaint them with practical approach to accounts writing by using software package.
	B.Com. III	Cost Accounting-II (3012)	To in port the knowledge of. 1. Basic cost concepts 2. Element of cost 3. Ascertainment of material cost. Labour cost. 4. To provide knowledge about concepts and principles application of overheads 5. To provide also understanding various methods of costing and their application.
	B.Com. III	Indirect & Direct Tax II (3038)	1. The study of various components of this course will enable the student. 2. To understand the basic concepts and acquire knowledge about computation of income submission of income tax Return, Advance tax and tax deducted at source, tax collection Authorities under the income tax Act 1961. 3. Calculation of income from salary Income from professions

Head

Dept. of Commerce

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Principal

S.M. Dnyandeo Mohekar
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S. M. Dnyandeo Mohekar Mahavidyalaya, Kalamnuri
Internal Quality Assurance Cell

PROGRAMME OUTCOMES (COs)
COURSE OUTCOMES (COs)



S.M. Dnyandeo Mohekar Mahavidyalaya Kalam

Department of Chemistry
Programme Specific Outcome

After successful completion of B.Sc. student would able to:

1. Understand the basic properties of atoms, molecules etc.
2. Gain knowledge of the structure and properties of inorganic and organic molecules.
3. Understand all physical phenomena related to chemical thermodynamics and kinetics.
4. Understand the structure of atoms and molecules based on quantum mechanics.
5. Gain knowledge of the reactivity, stability and reaction mechanisms of organic molecules.
6. Gain a basic knowledge of all the elements represented in the periodic table and their important real world applications.
7. Understand electronic configuration, orbital diagrams and quantum numbers. For an electron in the ground state.
8. Gain knowledge of the use of all biomolecules and bioorganic molecules in the body of animals and plants.
9. Gain knowledge of IR, UV and NMR spectroscopic techniques for assigning unknown organic molecules.
10. Understand common laboratory techniques including pH meter, conductometer, acid-base titration, organic and inorganic qualitative and quantitative analysis, organic and inorganic estimation.

Head

Department of Chemistry

Principal

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Course Outcomes

COs: Chemistry

Class	Course/Paper
B.A. F.Y. Chemistry Paper I	Inorganic Chemistry

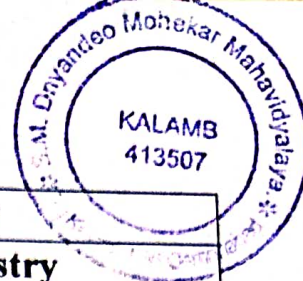
Course Outcomes

- To study the basics of atomic structure - Atomic orbitals, Quantum numbers, Bohr's theory, Heisenberg uncertainty, Aufbau and Pauli exclusion principles, Hund's multiplicity rule.
- 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 behaviour.
- To study the properties of s- and p-block elements.

Class	Course/Paper
B.A. F.Y. Chemistry Paper II	Organic Chemistry

Course Outcomes

- To understand the basic concepts in organic chemistry- structure and bonding, reactions, reagents and mechanisms of organic reactions.
- To study the concept of isomerism and stereochemistry.
- To understand the properties, preparation methods and reactions of alkanes, alkenes and alkyl and aryl halides.
- To study the concept of aromaticity.



Class	Course/Paper
B.A. F.Y. Chemistry Paper IV	Physical Chemistry

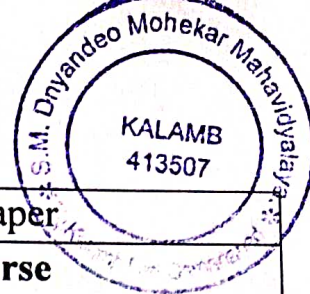
Course Outcomes

- To study the basic mathematical concepts - logarithmic relations, curve sketching, linear graphs and calculation of slopes, differentiation of functions simple mathematical functions, maxima and minima, partial differentiation.
- To understand kinetic theory of gases, kinetic gas equation, and gas laws, Critical Phenomena: PV isotherms of real gases.
- To study chemical kinetics: Factors influencing the rate of reaction, rate law and characteristics of simple chemical reactions. Catalysis: Definition, types, and characteristics, Enzyme catalysis.
- To understand basics of liquid, solid and colloidal state.

Class	Course/Paper
B.A. F.Y. Chemistry Paper V	Inorganic Chemistry-II

Course Outcomes

- To understand chemistry of the noble gases.
- To understand types of bonds, Theories of bonding - VBT, VSEPR, MOT with formation and shapes of molecules.
- To understand the basic concepts 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.
- 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.



Class	Course/Paper
B.A. F.Y. Chemistry Paper III+VI	Lab Course

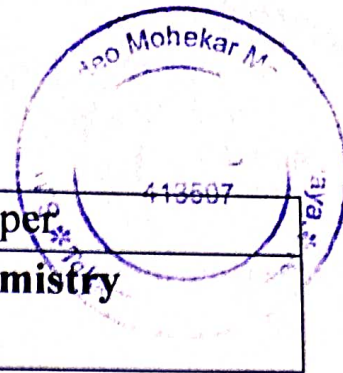
Course Outcomes

- To know how to prepare and standardize the solutions by volumetric analysis.
- To know how to identify the acidic and basic radicals from the inorganic binary mixture.
- To study how to determine the viscosity and surface tension of given liquids.
- To study the specific reaction rate, effect of acid strength, equivalent weight determination and Lambert Beer's Law verification.
- To understand how to identify the given organic compound qualitatively.
- To study organic estimations.

Class	Course/Paper
B.A. S.Y. Chemistry Paper VII	Organic Chemistry

Course Outcomes

- To understand the basic functional group transformations, aromatic electrophilic substitution reactions, nucleophilic additions.
- To understand structure, reactivity, preparation methods and chemical reactions of different types of organic compounds - alcohols, Phenols, aldehydes & ketones, amines and carboxylic acids.
- To study the named reactions- Pinacol-Pinacolone rearrangement, Fries rearrangement, Claisen rearrangement, Gatterman synthesis and Reimer Tiemann reaction, Baeyer-Villiger oxidation, Benzoin, Aldol Knoevenagel condensations, Mannich reactions. Hoffmann bromamide reaction, Gattermann Koch synthesis, Hell-Volhard-Zelinsky reaction. Regents in organic chemistry – LiAlH_4 , LTA, PTC.



Class	Course/Paper
B.A. S.Y. Chemistry Paper VIII	Physical Chemistry

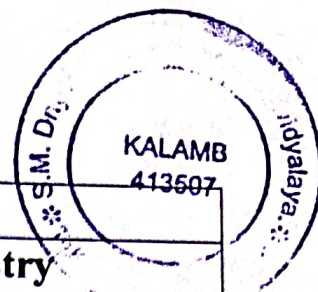
Course Outcomes

- To understand the basic concepts in thermodynamics.
- To understand the laws of thermodynamics, heat capacity, expansion of ideal gases for reversible process, Hess's law.
- To study Carnot cycle, 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 .
- 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.

Class	Course/Paper
B.A. S.Y. Chemistry Paper X	Inorganic Chemistry

Course Outcomes

- To familiarize students with transition elements, lanthanides and actinides.
- To understand concepts and theories in coordination compounds - Werner's co-ordination theory, EAN rule, VBT, isomerism, chelates.
- To understand the concepts of acids and bases - Arrhenius, Bronsted-Lawry, Lux-Flood, Solvent System and Lewis Concept of Acids and Bases
- To study the types and characteristics of solvents, chemical reaction in non-aqueous solvents.



Class	Course/Paper
B.A. S.Y. Chemistry Paper XI	Physical Chemistry

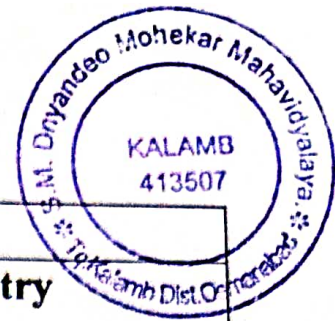
Course Outcomes

- To study the basic terms and laws in phase equilibrium and their applications.
- To understand different systems- Water, Pb-Ag, Mg-Zn, $\text{FeCl}_3\text{-H}_2\text{O}$, phenol-water, trimethyl amine - water, nicotine- water system, acetone-dry ice.
- To understand the concept of ideal behaviour and deviations.
- To understand the concept of conductivity and its types, Kohlrausch's law, Arrhenius Theory, Ostwald's dilution law, Transport number and its determination, Conductometric titrations.
- To familiarize with types of reversible 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. Corrosion: Concept, types and electrochemical theory.

Class	Course/Paper
B.A. S.Y. Chemistry Paper IX+XII	Lab Course III+IV

Course Outcomes

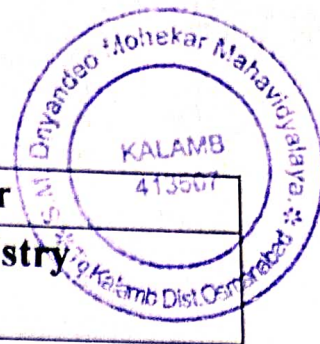
- To study the determination of critical solution temperature, solubility, heat of neutralization, partition coefficient and equilibrium constant.
- To study the molecular mass and kinetics of iodination of acetone.
- To understand the estimation of various metals by gravimetric and complexometric titrations.
- To understand the uses of various instruments like conductometer, pH-meter, colorimeter, polarimeter, refractometer etc.



Class	Course/Paper
B.A. T.Y. Chemistry Paper XIII	Physical Chemistry

Course Outcomes

- 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, Hamiltonian operator, Schrödinger wave equation postulates of quantum mechanics. Schrödinger wave equation for H-atom.
- To study the basics of spectroscopy - Electromagnetic radiation, regions of the spectrum, Born-Oppenheimer approximation, Rotational Spectrum, energy levels of a rigid rotor, selection rule, rotational spectra, determination of bond length.
- To understand photochemistry - Photochemical processes, laws of photochemistry, Grothus-Draper law, Stark-Einstein law, Jablonski diagram, qualitative description of fluorescence, phosphorescence, non-radiative processes, quantum yield and photosensitized reactions.
- To study some physical properties and their relation with the assignment of molecular structure- Optical activity, dipole moment, magnetic property.
- To introduce nano-materials - Properties, methods of synthesis and applications.
- To enable students to solve numerical problems.



Class	Course/Paper
B.A. T.Y. Chemistry Paper XIV	Organic Chemistry

Course Outcomes

- To introduce learners to organic spectroscopy - ^1H NMR, shielding and deshielding effect, chemical shifts, interpretation of PMR spectra of simple organic molecules, combined problems on UV, IR and PMR spectroscopic techniques.
- To familiarize students with organometallic compounds - Structure, methods of synthesis and their applications of Grignard reagents, Organozinc and organolithium compounds.
- To understand active methylene compounds, formation of enolates, Claisen condensation, Acidity of alpha hydrogen and its synthetic applications.
- 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.

Class	Course/Paper
B.A. T.Y. Chemistry Paper XV	Lab Course - V

Course Outcomes

- To know how to identify the nature of binary organic compounds, their methods of separation and identification of individual organic compound qualitatively.
- To analyze the binary inorganic mixture for semi-micro analysis.
- To study the separation and volumetric estimation of metal ions.
- To study the separation and gravimetric estimation of metal ions.



Class	Course/Paper
B.A. T.Y. Chemistry Paper XVI	Inorganic Chemistry

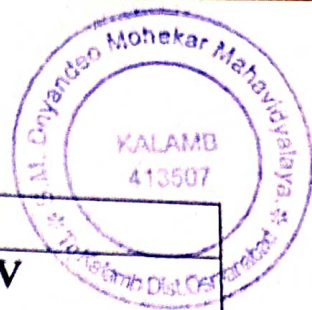
Course Outcomes

- To understand nature of metal-ligand bonding in transition metal complexes - crystal field theory with respect to octahedral, tetrahedral and square planer complex.
- To familiarize with electronic spectra of transition metal complexes.
- To introduce organo metallic compounds - classification, nomenclature, synthesis and reactions.
- To study the roles and biological functions of metals in biological systems.
- To introduce chromatography - types, classification and applications.

Class	Course/Paper
B.A. T.Y. Chemistry Paper XVII	Organic Chemistry

Course Outcomes

- To study the heterocyclic compounds in details, their aromatic characters and importance in medicinal chemistry, structure elucidation, synthesis and properties of five and six member heterocyclic compounds using molecular orbital theory.
- To study carbohydrate chemistry and its importance.
- To understand synthesis and properties of some polymers, polymerization reactions.
- To understand constitution, classification, synthesis, properties and applications of some drugs.
- To know constitution, classification, synthesis and properties of some dyes.



Class	Course/Paper
B.A. T.Y. Chemistry Paper XVIII	Lab Course - V

Course Outcomes

- To study the organic estimations of carbonyl group, vitamin C, ascorbic acid, saponification value of oil.
- To prepare some organic compounds and check their purity by TLC
- To determine the strength of acid using conductometer
- To determine empirical formula of ferric -5-sulphosalicylate
- To determine the amount of Fe^{2+} in the given solution potentiometrically
- To determine the interfacial tension, the standard free energy change ΔG^0 and equilibrium constant.
- To study the effect of addition of an electrolyte NaCl / KCl on the solubility of benzoic acid at room temperature.

Head
Department of Chemistry

Principal
S.M. Dnyandeo Mohekar
Mahavidyalaya, Kalam

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Coordinator
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Mahavidyalaya, Kalamb

S.M. Dnyandeo Mohekar Mahavidyalaya Kalamb



Department of Botany
Programme Specific Outcome

After completing B. Sc in Botany Subject

1. Students get knowledge of Plant diversity
2. They understand different types of ecosystems and effect of human activities on ecosystem
3. Students get knowledge of getting information through internet
4. Students acquire laboratory skills
5. Students get knowledge of morphology, anatomy, physiology, pathology and genetics of plant
6. Students get knowledge of modern techniques in plant pathology study
7. Students identify plants and their medicinal values to mankind.
8. Students identify plants diseases of crop plants.

Amra
MS. A.R. Mulchekar
Head Dept. of Botany.

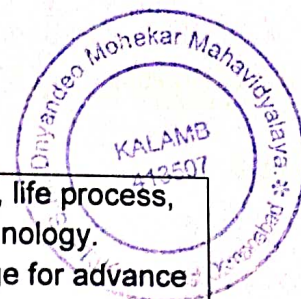
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Mahavidyalaya, Kalamb

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COURSE OUTCOME
COs: Botany

Sr. No.	Class	Course/Paper	Course Outcomes
1	B. Sc. FY	Paper-I Diversity of Cryptogams-I	<ol style="list-style-type: none"> 1. Introduction about basic plant groups like Algae and Fungi. 2. To equip the learners with all life science fundamental practical skills. 3. To aware learners about the economic and medicinal value of cryptogrammic plants.
2	B. Sc. FY	Paper-II Morphology of Angiosperms	<ol style="list-style-type: none"> 1. To introduce to basic structure of plants. 2. To develop practical knowledge of Angiosperm plants. 3. Know morphology of reproductive organs.
3	B. Sc. FY	Paper-III Diversity of Cryptogams-II	<ol style="list-style-type: none"> 1. To understand categories of plants with morphological features of Bryophytes and Pteridophytes. 2. To analyze the peculiar characteristic features of plant groups in relation with its internal characteristics. 3. To aware learners about economic and medicinal value of cryptogrammic plants.
4	B. Sc. FY	Paper-IV Histology, Anatomy and Embryology	<ol style="list-style-type: none"> 1. To understand internal structure of plant parts. 2. To apply theoretical knowledge in wood industry, forensic science. 3. To understand the development of seed and seed certification.
5	B. Sc. SY	Paper-VII Taxonomy of Angiosperm	<ol style="list-style-type: none"> 1. To familiarize with basic terminology, plant systematic and its different classification. 2. To identify angiosperm plants and their use.
6	B. Sc. SY	Paper-VIII Plant Ecology	<ol style="list-style-type: none"> 1. Understanding of anatomical characterization of plants. 2. Study of eco-friendly conservation and sustainable utilization. 3. Students cop up with the ecosystem mechanism, analyzing plants ecosystem. 4. Understanding of ecological adaptations.
7	B. Sc. SY	Paper-XI Gymnosperms and Utilization of plants	<ol style="list-style-type: none"> 1. To make aware of economic and medicinal value of Gymnosperms and Angiosperms. 2. To understand important terminology in industrially and economically important higher plant species.



8	B. Sc. SY	Paper-XII Plant Physiology	<ol style="list-style-type: none">1. To understand plant physiology, life process, plant genetics and plant biotechnology.2. To use the theoretical knowledge for advance study in plant sciences.
9	B. Sc. TY	Paper-XV Cell and Molecular Biology	<ol style="list-style-type: none">1. To create innovative approaches to aware the students in basic terminology of plant cells.2. To understand cell at molecular level.3. To apply theoretical understanding to the development of humankind.
10	B. Sc. TY	Paper-XVI Diversity of Angiosperms-I	<ol style="list-style-type: none">1. To create awareness about the plant resources.2. To classify plants on the basis of morphological aspects.3. To participate in laboratory experiments for understanding the basic principles of life sciences and helpful for gaining primary information
11	B. Sc. TY	Paper-XIX Genetics and Biotechnology	<ol style="list-style-type: none">1. To study basic terms in Mendelian and non-Mendelian genetics.2. To focus on biotechnological importance for improvement and satisfaction of all needs of human kind.3. To understand plant biotechnology and its application in agriculture, horticulture, medicinal and industrial crops.
12	B. Sc. TY	Paper-XX Diversity of Angiosperms-II	<ol style="list-style-type: none">1. To study eco-friendly conservation and sustainable utilization of plants.2. To understand flora.
13	B. Sc. TY	Biology and Diversity of Bryophytes, Pteridophytes and Gymnosperms	<ol style="list-style-type: none">1. To create the foundation of all plant life cycles of cryptogrammic plant species and it correlate with experimental techniques.2. To understand characteristics of non-flowering primitive plants.3. To aware the students about economic and medicinal values of cryptogrammic and gymnosperm plant.
14	B. Sc. TY	Ecology and Conservation	<ol style="list-style-type: none">1. To understand plant kingdom system and its ecology.2. To distribute various biomes content for future higher environmental studies.

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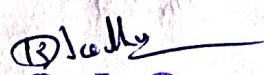
Department of Zoology
Programme Specific Outcome

After completing B. Sc in Zoology Subject

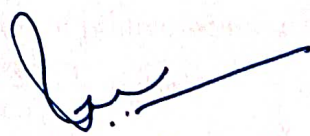
1. To understand concepts in all discipline of Zoology.
2. Understand the evolution, history of phylum.
3. Create an awareness of the impact of Zoology on the environment society, and development outside the scientific community.
4. To study and understand the classification of whole phyla includes in Non chordates with the help of charts/models/pictures.
5. To inculcate the scientific temperament in the students and outside the scientific community.
6. Use modern techniques, decent equipment's and Zoology software's
7. Gain the knowledge of Zoology through theory and practical's.
8. Study and understand the DNA Recombinant technology.
9. Understand the testing of hypothesis.
10. Use modern Zoological tools, Models, Charts and Equipment's.
11. Know structure-activity relationship.
12. Understand good laboratory practices and safety.
13. Develop research oriented skills.
14. Make aware and handle the sophisticated instruments/equipment's


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COURSE OUTCOMES

COs: ZOOLOGY

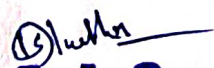
Sr. No.	Class	Course/Paper	Course Outcomes
1	B.Sc. I	ZOL-101 Protozoa to Annelida	<ol style="list-style-type: none"> 1. To create awareness about fundamentals of invertebrate animals. 2. To understand the nature, classification of phylum system anatomy and development. 3. To equip students with life science fundamental practical skills.
	B.Sc. I	ZOL-102 Cell biology I	<ol style="list-style-type: none"> 1. To understand structure and functions of cell organelles in animal cells. 2. To study cell structure and the process of cell division.
	B.Sc. I	ZOL -201 Arthropoda to Echinodermata And Protochordata	<ol style="list-style-type: none"> 1. To introduce learners to higher invertebrates, morphological features, evolutionary development and connecting links and adaptations. 2. To analyze peculiar characteristics of animal groups in relation with internal characteristics.
	B.Sc. I	ZOL -202 Genetics-I	<ol style="list-style-type: none"> 1. To understand important terminology in genetics, laws, & its applications. 2. To observe and calculate probabilities in cross, heredity and variations in genetics.
	B.Sc. II	ZOL -301 Vertebrate Zoology	<ol style="list-style-type: none"> 1. To familiarize students with basic terminology and animal systematics. 2. To understand classification, anatomy and development of vertebrates. 3. To understand classification, morphological structures, identification of specimens and anatomy of some vertebrate animals. 4. To understand embryological process of development.
	B.Sc. II	ZOL -302 Genetics-II	<ol style="list-style-type: none"> 1. To create awareness of mechanism of protein synthesis, DNA fingerprinting, recombinant DNA technology and rDNA. 2. To understand mechanism of protein synthesis and solve problems in genetics.
	B.Sc. II	ZOL -401 Animal physiology	<ol style="list-style-type: none"> 1. To study animal processes. 2. To understand life processes through experiments.
	B.Sc. II	ZOL -402 Biochemistry & Endocrinology	<ol style="list-style-type: none"> 1. To focus on biochemical processes - metabolism and catabolism process. 2. To inculcate advance study in biochemical reactions, principle, functioning and & uses of instruments.
	B.Sc. III	ZOL -501	<ol style="list-style-type: none"> 1. To study basic terms and subject applications



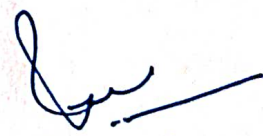
		Ecology	<p>in life sciences.</p> <ol style="list-style-type: none">2. To understand basic information of types of ecosystems, role of living things in ecosystems and basic ecological concepts.3. To analyze biotic, abiotic factors and animal interactions.
B.Sc. III		ZOL -502 Fishery Science-I	<ol style="list-style-type: none">1. To understand the concept of blue revolution.2. To understand the status of fresh water fisheries.3. To understand the fresh water capture fisheries and the effect of aquatic pollution on fisheries.4. To understand the revering and reservoir fisheries and its management.5. To understand the brackish water and marine water fisheries.6. To understand the application of remote sensing technique in fisheries.
B.Sc. III		ZOL -601 Evolution	<ol style="list-style-type: none">1. To study basic terms and subject applications in life sciences.2. To participate in laboratory experiments for understanding the basic principles of evolution through models and helpful for gaining primary information.
B.Sc. III		ZOL -602 Fishery Science-II	<ol style="list-style-type: none">1. To understand the museum specimen and study of fresh water and brackish water fishes.2. To understand the museum specimen and study of marine water fishes.3. To know how to determine the Alkalinity, Salinity, DO, Hardness of water.4. To prepare project report on Fish farm.


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Department of Fishery Science

Programme Specific Outcome

1. The students will acquire through knowledge of Fishery Science.
2. The subject will enable the student to engage in business related with fish, such as fish culture, its export and import business.
3. The students will gain knowledge of aquaculture.
4. The students will be able to understand the process of hybridization and develop the research attitude towards fishery and aquaculture.
5. The study will open opportunities for students such as post of Instructor, Research Assistant, Biochemist Biologist, Technicians etc.
6. The subject also gives access to the service sector in the fisheries department of state and central government.
7. The subject has a wide scope of self employment after owing degree you can also open your own enterprise.
8. The subject also enables the student to become an aqua culturist farm Managers, exporters, traders, breeders and modern fishermen's etc.


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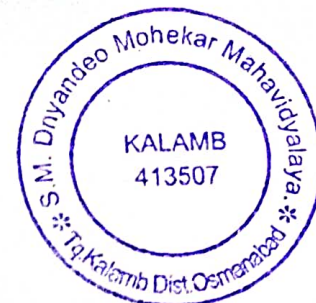
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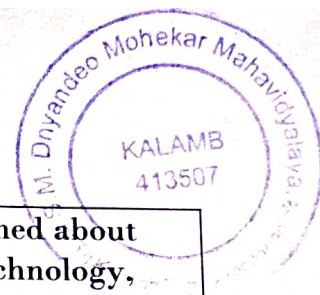
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COURSE OUTCOMES
COs: FISHERY SCIENCE

Sr. No.	Class	Course/Paper	Course Outcomes
1	B.Sc. I	Paper I Morphology And Taxonomy	<ol style="list-style-type: none"> 1. From this paper student learned about fins and locomotion in fishes, median and paired fins, epidermis and exo- skeletons. 2. They learned about broad outline of classification of fishes.
2	B.Sc. I	Paper II Anatomy & Physiology	<ol style="list-style-type: none"> 1. Students learned about axial skeletons, digestive system in Fish, physiology of supination, learn about heart arterial and venous system in fishes. 2. They learned about reproductive system and nervous system in fishes.
3	B.Sc. I	Paper IV Fish Ecology and Adaptation	<ol style="list-style-type: none"> 1. Students learned about Ecology of fresh water, marine water and brackish water, Water pollution, migration in fishes, adaptation of Fishes to environment
4	B.Sc. I	Paper V Fish Pathology and Parasitology	<ol style="list-style-type: none"> 1. Students learned about inflammation immune response, pathological charges etc. They learned about different type of disease in fishes, symptoms and curative treatment.
5	B.Sc. II	Paper VII Capture fisheries	<ol style="list-style-type: none"> 1. From this paper students learned about Inland, Marine and brackish water resources, fish fauna, gears used, boats used in India.
6	B.Sc. II	Paper VIII Culture fisheries - I	<ol style="list-style-type: none"> 1. From this paper student learned about history of aquaculture, purpose importance and advantages of aquaculture 2. They learned about different types of culture and management system in fish culture.
7	B.Sc. II	Paper XI Fish Technology And Population Dynamics	<ol style="list-style-type: none"> 1. From this topic students learned about different types of fishing crafts fishing gear, processing methods of fishes, fish population etc.
8	B.Sc. II	Paper XII Culture fisheries – II and aqua. management	<ol style="list-style-type: none"> 1. From this topic student learned about Mari culture and different types of culture system of fishes. They also learned about aquarium management.
9	B.Sc. III	Paper XV Fish Economics	<ol style="list-style-type: none"> 1. From this chapter students learned about different types of technology of economics, function of economic system. 2. They also learned about Demand end and supply of fishes, marketing of fishes etc.



10	B.Sc. III	Paper XVI Modern trends in Fishery science	1. From this chapter students learned about principals of fish genetics, biotechnology, hybridization, chromosomal engineering etc.
11	B.Sc. III	Paper XIX Fish Statistics, Management and Extension	1. Students learned about statistics, management and extension system in fishery science
12	B.Sc. III	Paper XX Modern trends in Fishery Science – II	1. From this topic student learned about immunology in fishes, microbiology, contamination, preservation and spoilage of fish and other sea foods. 2. They also learned about application of remote sensing technology in fisheries.


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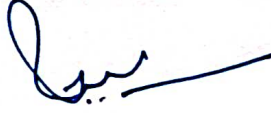
Department of Electronics Programme Specific Outcome

After the completion of the B.Sc. Electronics, the students are able to:

1. To understand Network theorems and semiconductor devices
2. To understand basics of number systems, binary, octal, hexadecimal etc.
3. To understand types of biasing techniques of transistor.
4. To understand the basics of 8086 microprocessor.
5. To understand the types of modulation techniques.
6. To understand the concept of electronic sensors.
7. Difference between microprocessor and microcontroller and their applications


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Department of Physics

Programme Specific Outcome

After the completion of the B.Sc. Physics, the students are able to:

1. Gain knowledge in core areas of physics such as mechanics, optics, electricity and magnetism, heat and thermodynamics as well as advanced areas such as electrodynamics, electronics, solid state physics, quantum mechanics and nuclear physics.
2. Learn the basic mathematical tools needed to understand the various branches of physics. They are trained to apply these techniques through numerical exercises.
3. Develop scientific temper and focus on developing practical skills, mathematics and get results.
4. They are given practical training in well-equipped and equipped laboratories for practical verification of the physical principles learned during class lectures.
5. Eligible for the further post-graduate studies, in physics, electronics, instrumentation, computer applications etc. They can apply for different integrated PhD courses in IITs and NITs. They may appear for competitive examinations like JAM, JEST etc.
6. They may also apply for various trainee jobs with substantial salary packages

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COs: Physics

F. Y. B. Sc. Physics 101- Paper No I:

Mechanics, properties of matter & sound:

1. To introduce the students to the basic concepts of mechanics.
2. Deep understanding of Newton's Laws of Gravitation and their applications.
3. To fully understand the concepts of viscosity and elasticity.
4. To understand the phenomenon of surface tension and its applications.
5. To understand ultrasonic and acoustic concepts effectively.
6. To enable the students to solve numerical problems.

F. Y. B. Sc. Physics 101 Paper No II:

Heat and Thermodynamics

1. Understanding thermal conductivity concepts and applications.
2. To understand the concept of real gases and changing phenomena.
3. To enable students to understand the laws of thermodynamics and thermodynamic processes.
4. To study the concept of entropy in depth.
5. To study heat engines and their efficiency.
6. To enable students to solve numerical problems.

F. Y. B. Sc. Physics 104- Paper No IV:

Geometrical and Physical Optics

1. Knowledge of the principle concepts of optical optics.
2. Having a thorough knowledge of the main points of the optical system.
3. Fully understanding the resolution of the intervention.
4. To enable the student to summarize the phenomena of diffraction and polarization.
5. Able to solve the stuck problem.

F. Y. B. Sc. Physics 105- Paper No V:

Electricity and Magnetism

1. To understand the basic concepts and laws of electrostatics.
2. To study the basic concepts and laws in dielectrics.
3. To acquire knowledge of basic concepts and laws of magnetism.
4. To understand the basic concepts of transient current.
5. To enable students to solve numerical problems related to the topics covered.

S. Y. B. Sc. Physics 201- Paper No VII:

Mathematical, Statistical Physics and Relativity

1. To introduce students to mathematical methods used in physics.
2. To introduce the students to vector algebra.



3. Introduction to differential equations.
4. To introduce the students to partial differential equations.
5. To introduce the students to classical and quantum statistics.
6. To understand the concepts of special relativity theory.
7. Using mathematical methods to solve physics problems.

S. Y. B. Sc. Physics 202- Paper No VIII:

Modern and Nuclear Physics

1. To introduce the students to the basic properties of nucleus.
2. To have a thorough understanding of radioactivity and its applications.
3. To introduce students to nuclear forces and elementary particles.
4. To understand the construction and working of various particle accelerators and detectors.
5. Understanding of photoelectric effect.
6. To study various photoelectric cells.
7. To enable students to solve numerical problems.

S. Y. B. Sc. Physics 205- Paper No XI:

General Electronics

1. To introduce the students to basic electronic components.
2. Understanding Semiconductors.
3. In-depth knowledge of semiconductor devices.
4. To introduce the students to transistor circuits and their characteristics.
5. Understanding of oscillators and multi vibrators.
6. To understand the process of modulation and demodulation.
7. To solve numerical problems.

S. Y. B. Sc. Physics 206- Paper No XII:

Solid state Physics

1. To introduce the students to the basic concepts of the structure of solids.
2. To introduce the students to the system of characterisation.
3. In-depth knowledge of bonding and band theory of solid substances.
4. Better understanding of transport properties.
5. To enable students to solve numerical problems.

T. Y. B. Sc. Physics 301- Paper No XV:

Classical and Quantum Mechanics

1. Understanding the mechanics of systems of particles.
2. To understand the D'Albert theory, Lagrange equation and its applications.
3. To introduce students to the historical background of quantum mechanics.
4. To understand the wave function and its physical interpretation.
5. To introduce students to time dependent and time independent Schrödinger equations and their applications.

6. To introduce students to various operators used in quantum mechanics.
7. To enable students to solve numerical problems.



T. Y. B. Sc. Physics 302- Paper No XVI:

Electrodynamics

1. To introduce students to various differential operators to study Gauss Law.
2. Faraday's Law, Lenz's Law etc. To introduce students to basic concepts and equations related to different time zones like
3. Write an expression to represent the vector for electromagnetic waves.
4. To be able to write wave equation.
5. To solve numerical problems.

T. Y. B. Sc. Physics 305- Paper No XIX:

Atomic, Molecular Physics and LASER

1. To introduce students to the conceptual development of the atomic model.
2. To deeply understand one and two valence electron systems.
3. To understand Zeeman Effect, Paschan back effect, Stark effect etc.
4. Understanding Molecular Raman Spectroscopy.
5. In-depth introduction to lasers.
6. To introduce the students to different types of lasers.
7. To understand the construction and working of different types of lasers.
8. To know the various applications of laser.
9. To enable the students to solve numerical problems.

T. Y. B. Sc. Physics 306- Paper No XX:

Non-conventional Energy sources and Optical Fibers

1. To introduce students to different types of renewable energy sources.
2. To introduce students to the use of solar energy.
3. To introduce the students to the applications of biomass energy.
4. To introduce students to wind mechanics.
5. To create awareness among students about energy conservation.
6. To introduce optical fiber to the students.
7. To introduce the students to the applications of optical fiber.
8. To enable students to solve numerical problems.

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COURSE OUTCOMES

COs: Electronics



B.Sc. I ELE 101 [Network theorems and semiconductor devices]

1. To understand electronic passive and active components.
2. To understand basics of P-N junction diodes and their types.
3. To understand basics of transistor JFETS and their working.
4. To understand basics of power supplies using semiconductor diodes and IC's.

B.Sc. I ELE 102 [Digital Electronics – I]

1. To understand basics of number systems, binary, octal, hexadecimal etc.
2. To understand basics of logic gates and their working symbols
3. To understand basics of Boolean algebra and theorems.
4. To understand basics of combinational logic circuits and their applications.

B.Sc. I ELE 201 [Amplifiers]

1. To understand types of biasing techniques of transistor.
2. To understand 2- port technique of analysis of transistor amplifier.
3. To understand feedback technique of study of transistor amplifier.
4. To understand the types of power amplifiers and their working.

B.Sc. I ELE 201 [Digital Electronics - II]

1. To understand the basics of flip-flops, their types and working.
2. To understand the working of counters their types and uses.
3. To understand the basics of shift registers, types and applications.
4. To understand the types of memories used to store data, their working.
5. To understand the types of converters used to transfer the digital data in analog form.

B.Sc. II ELE 301 [Linear Integrated Circuits]

1. To understand the working of OP-AMP integrated amplifier system.
2. To understand the applications of OP-AMP.
3. To learn and understand the working of oscillators used in electronic generators.
4. To understand the working of timer IC 555 and its applications.

B.Sc. II ELE 302 [8086 Microprocessor]

1. To understand the basics of 8086 microprocessor.
2. To enable learners to understand the instruction Set of 8086 microprocessor.
3. To enable learners to understand the assembly language programming.

B.Sc. II ELE 401 [Communication Electronics]

1. To understand the types of modulation techniques.
2. To understand the pulse modulation techniques.
3. To understand the different ways of modulation and detection.
4. To understand the digital communication techniques.



B.Sc. II ELE 402 [8086 Microprocessor Interfacing]

1. To understand the interfacing of memories and I/O.
2. To understand the programming using IC 8255.
3. To understand the communication interface using IC 8251.
4. To understand the programmable interval timer IC 8253.

B.Sc. III ELE 501 [Power Electronics]

1. To familiarize with the power components and their characteristics.
2. To understand the concept of electronic sensors.
3. To understand the knowledge of different types of electronic sensors.
4. To apply sensors for detection of an object.
5. To get an idea of industrial motors and power requirements.
6. To understand the concept of industrial motor speed control and methods.

B.Sc. III ELE 502 [Microcontroller –I]

A learner of this course will be able to understand

1. Embedded systems.
2. Difference between microprocessor and microcontroller
3. Fundamentals of microcontroller
4. Basics of microcontroller hardware specific to 8051 microcontroller
5. Microcontroller instructions
6. Applications of microcontroller.

B.Sc. III ELE 601 [Programmable Logic Controller]

Students will be able to understand

1. Industrial controls
2. Relay logic concept
3. Ladder logic concept
4. Basics of PLC system
5. PLC instructions
6. Development of ladder logic for specific industrial control system.


B.Sc. III ELE 602 [Microcontroller – II]

After completing the course, students will learn and understand.....

1. Microcontroller internal blocks.
2. Timer and counter block and their programming.
3. Serial communication and its programming.
4. Interrupt and its programming.
5. Programming to LCD, ADC and DAC to microcontroller.
6. Application of microcontroller in various domains.

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Department of Mathematics Programme Specific Outcome

1. Demonstrate and understand the common body of knowledge in Mathematics and demonstrate the ability to apply analytical and theoretical skill model and to solve the mathematical problem.
2. Provide a systematic understanding of the concepts and theories of mathematics and its application in the real world to an advance level and enhance carrier prospects in a huge array of field.
3. Perform Computations in higher mathematics.
4. Read and understand medial level proofed.
5. Right & understand basic proof.
6. Develop & mention problem solving skills


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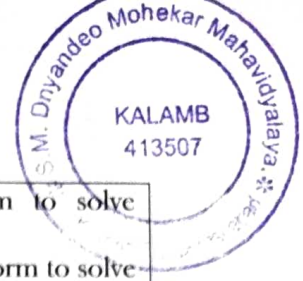

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COURSE OUTCOMES

COs: MATHEMATICS



Sr. No.	Course/Paper	Course Outcomes
1	Differential Equations	<ol style="list-style-type: none">1. To understand homogeneous and separable first order differential equations.2. To understand the exact differential equations.3. To understand homogenous linear equations with constant coefficient and variable coefficients.4. To find the solution of non-homogenous first order differential equations.5. To find the solution of Bernoulli's equation.
2	Geometry	<ol style="list-style-type: none">1. To understand geometrical terminology for plane, right line, sphere, cylinder and cone.2. To know the geometrical results to find center and radius of the circle.3. Students will be able to find equation of lines and planes in space.4. Student will be able to find angle between two planes and length of perpendicular from a given point to a given line.5. Students will be able to identify parallel and perpendicular lines.
3	Differential and Integral Calculus	<ol style="list-style-type: none">1. To develop the concepts of limit, function, continuity, discontinuity and derivative.2. Students become familiar with hyperbolic functions, inverse hyperbolic functions, derivatives, and higher order differentiation.3. Students understand the consequences of Rolle's Theorem and mean value theorem for differentiable function.4. Students understand definite integrals as the limit of a sum.5. Student will be able to understand the concept of divergence, curl, gradient and it's applications.
4	Number Theory	<ol style="list-style-type: none">1. Students will be able to find quotient and remainders from integer division.2. Students apply Euclid's algorithm and backward substitutions.3. Students understand the concept of congruence, residue classes and least residue.4. Student will know the concepts - addition and multiplication of integers modulo.5. Students will be able to solve linear congruence.
5	Numerical Methods.	<ol style="list-style-type: none">1. Student becomes familiar with numerical solutions of nonlinear equations in a single variable.2. Students will know the concepts - numerical interpolation and approximation of functions.3. Student can solve first order initial value problem using Euler's method.4. Student can solve first order initial value problem using a second order Runge- Kutta Method.5. Students will be able to find numerical solution of ordinary differential equations.
6	Integral Transform and Partial differential	<ol style="list-style-type: none">1. Students understand the concept of beta and gamma functions and their applications.

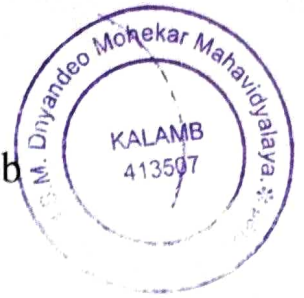


	Equations	<ol style="list-style-type: none">2. Students are able use to Laplace transform to solve ordinary and partial differential equations.3. Students can apply properties of Laplace transform to solve examples.4. Students will know the difference between linear and nonlinear partial differential equations.5. 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)	<ol style="list-style-type: none">1. Students understand the concepts - particle, rigid body, force, equilibrium etc.2. Students can find the components of velocity & acceleration in a given direction.3. Students follow the concepts momentum, angular momentum, work, energy and points functions in mechanics.4. Students will know the concept of projectile and motion of projectile.5. Students will know differential and pedal equations of central orbits and their applications.
8	Abstract Algebra (I & II)	<ol style="list-style-type: none">1. Students will understand the number systems and algebraic structures.2. Students will understand the concept of ring and special types of rings.3. Students can identify the difference between homomorphism and isomorphism of a group.4. Students will know and apply the concepts of linear dependence and linear independence of vectors.5. Students will be able to give the examples of inner product space.
9	Ordinary Differential Equations (I & II)	<ol style="list-style-type: none">1. Students will know the difference between equation and differential equation.2. Students will be able to find the solution of linear differential equation of first and second order.3. Students will understand the initial value problem and its solutions.4. Students will be able to understand the concept Wronskian of solution.5. Students can find singular point and regular singular points of the differential equation.
10	Real Analysis (I & II)	<ol style="list-style-type: none">1. Students become familiar with terminology sets, elements, operations on sets, functions, operations on functions.2. Students can define & recognize basic properties of field of real numbers.3. Students can understand the concept of series of real numbers, convergence and Divergence.4. Students can understand metric space, continuous function on metric space and difference between open sets and closed sets.5. Students will be able define Riemann integral, Fourier series and their applications.


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Department of Computer Science

Specific Program Outcomes

After completing the course, learning will be able

1. To explain adequately the functioning of computer components.
2. To familiarize with basic concepts of digital electronics.
3. To understand structures, functions and history of operating systems.
4. To familiarize with protection and security mechanisms.
5. To understand a programming language.
6. To create user defined functions for specific task in C language.
7. Students will be able to use linear and non-linear data structures.
8. Understanding the database system basic concepts, architecture, features, purpose, and advantage of DBMS.
9. To understand the structure and model of programming language VB .Net
10. Understand the concept of networking models, protocols and functionality of each layer.
11. To identify intellectual property right issues in cyberspace and design strategies to protect intellectual property.

Department of Computer
Science

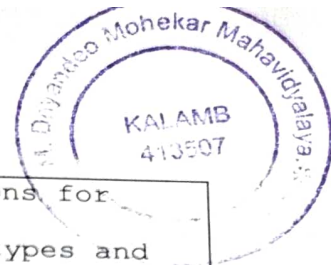
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COURSE OUTCOMES

Sr. No.	Course Code	Course/Paper	Course Outcomes (COs)
1	CS01	Computer Fundamental	12. To make the students familiar with computer environment. 13. To familiarize with the basics of Operating System and business communication tools 14. To identify parts of a computer system. 15. To explain adequately the functioning of computer components. 16. To understand problem solving using computers. 17. To design an algorithmic solution for a given problem.
2	CS02	Digital Electronics:	1. To familiarize with basic concepts of digital electronics. 2. To learn number systems and their representation. 3. To understand the basic logic gates, Boolean algebra and K-maps. 4. To study arithmetic circuits, combinational circuits and sequential circuits. 5. Study comparative aspects of logic families.
3	CS04	Operating System	1. To understand structures, functions and history of operating systems. 2. To understand designs and issues associated with operating systems. 3. To understand process management concepts including scheduling, synchronization, and deadlocks. 4. To familiarize learners with multi-threading. 5. To study master concepts of memory management including virtual memory. 6. To understand master system resources sharing among the users. 7. To understand issues related with system interface, implementation, disk management. 8. To familiarize with protection and security mechanisms.
	CS05	Programming in C	1. To understand a programming language. 2. To apply problem solving techniques. 3. To enable learners to write programs in C-programming and to solve problems. 4. To read, understand and trace the execution of programs written in C language. 5. To write the C code for a given algorithm. 6. To implement programs with arrays and functions.
	CS07	Advance C-Programming	After completing the course, learning will be able



			<ol style="list-style-type: none"> 1. To create user defined functions for specific task in C language. 2. To understand the functions, types and working in C programming. 3. To understand use of user defined data types such as structures & unions. 4. Students will be able to deal with memory using pointers. 5. To understand library functions and storage classes in C language. 6. To learn pre-processor directives and operators in C language. 7. To study files stored on computer memory using file handling.
6	CS08	Data Structure	<ol style="list-style-type: none"> 1. Student will be able to choose appropriate data structure as applied to specified problem definition. 2. Student will be able to handle operations like searching, insertion, deletion and traversing mechanism on various data structures. 3. Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc. 4. Students will be able to use linear and non-linear data structures like stacks, queues, linked list etc.
7	CS011	Programming in CPP	<p>To understand basic object oriented concepts & issues involved in effective class design.</p> <p>To write C++ programs involving the use object oriented concepts such as information hiding, constructors, destructors, inheritance etc.</p>
8	CS012 -	DBMS Using SQL	<ol style="list-style-type: none"> 1. Understanding the database system basic concepts, architecture, features, purpose, and advantage of DBMS. 2. Learning about the component of a DBMS. 3. Learning about data modeling & design. 4. Learning about entity-relationship and data model. 5. Understanding the basics of relational model, normalization, relational algebra. 6. Introduction to oracle. 7. Student will able to deal with database system using SQL to manipulate data. 8. Understanding of physical storage of data. 9. Learning architecture of database system. 10. Learning about transaction processing and concurrency control.
9	CS015	Software Engineering	<ol style="list-style-type: none"> 1. To manage selection and initiation of individual projects and of portfolios of projects in enterprise. 2. To conduct project planning activities that accurately forecast project costs, timelines, and quality.



			<ol style="list-style-type: none"> 3. To implement processes for successful resource, communication, risk and change management. To demonstrate effective project execution and control techniques that result in successful projects. 4. To conduct project closure activities and obtain formal project acceptance. 5. To demonstrate a strong working knowledge of ethics and professional responsibility. 6. To demonstrate effective organizational leadership and change skills for managing projects, project teams, and stakeholders.
10	CS016	VB .Net	<ol style="list-style-type: none"> 1. To understand the structure and model of programming language VB .Net 2. To use the programming language VB.Net for programming technologies. 3. To develop software in VB .Net. 4. To evaluate user requirements for software functionality required to decide whether the programming language VB .Net can meet user requirements. 5. To solve the given problem by applying technologies using implementation of VB.Net programming language. 6. To choose an engineering approach for solving problems.
11	CS019	Data Communication and Networking	<p>Students will be able to....</p> <ol style="list-style-type: none"> 1. Understand types of networks, technologies and application of networks. 2. Understand types of addresses and data communication. 3. Understand the concept of networking models, protocols and functionality of each layer. 4. Learn basic networking hardware and tools. 5. Understand wired and wireless networks, its types, functionality of layer.
12	CS020	Ethics and Cyber Law	<ol style="list-style-type: none"> 1. To describe laws governing cyberspace and analyze the role of internet governance in framing policies for internet security. 2. To discuss different types of cybercrimes and analyze legal frameworks of different countries to deal with these cybercrimes. 3. To explain the importance of jurisdictional boundaries and identify the measures to overcome cross jurisdictional cyber-crimes. 4. To illustrate the importance of ethics in legal profession and determine the appropriate ethical and legal behavior according to legal frameworks. 5. To identify intellectual property right issues in cyberspace and design strategies to protect intellectual property.

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Department of Dairy Science
PROGRAMME OUTCOMES (POs)

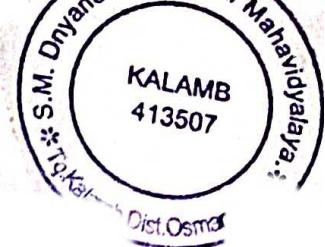


On completion of this programme are expected to learn the following

1. An aspect of farming in livestock management.
2. Role of dairy in national economy.
3. Sanitary and hygienic practices in dairy farm & plant.
4. Establishment of dairy farm.
5. Study of various diseases & disorders in livestock.
6. Study milk processing, dairy engineering, dairy chemistry and dairy microbiology.
7. Study of nutrients & their nutritional importance.
8. Classification of feeds & fodder.
9. Anatomy of digestive system in ruminants.
10. Desiccated milk products.
11. Heat and acid coagulated milk products.
12. Fat rich Indian dairy products.
13. Animal reproduction practices in dairy farm.
14. Breeding practices in dairy farm.
15. Manufacturing technology of Ice-cream and frozen desserts.
16. Fat rich dairy products and their manufacture at industrial level.
17. Production of condensed and dried milks.
18. Food safety and quality assurance.

COURSE OUTCOME

COs : DAIRY SCIENCE & TECHNOLOGY



Sr. No.	Class	Course/Paper	Course Outcome
1	B.Sc. I	Paper-I Dairy Farm Management	After the studying English as one of the Subjects the students will be able: <ol style="list-style-type: none">1. To understand the role of livestock in national economy.2. To know the concepts of management and management practices in dairy farming.3. To understand the management of cattle, buffalo, sheep and goat.4. To know the poultry management.
2	B.Sc. I	Paper-II Market Milk Industry	After completion, the students will be able to ... <ol style="list-style-type: none">1. Understand the dairy developments in India.2. Understands the milk chemistry and constituents and physic-chemical properties of milk.3. Understand the concepts of microbiology of milk.4. Understand the anatomy and physiology of mammary gland.
3	B.Sc. I	Paper-IV Livestock Healthy and Hygiene	After completion, the students will be able to... <ol style="list-style-type: none">1. Know how to identify healthy and sick animals2. Know the study of major diseases.3. Understand the parasitic diseases.4. Understand the diseases of lactating cow and carve.5. Know the first aid measures and disposal of carcass.
4	B.Sc. I	Paper-V Dairy Processing & Engineering	<ol style="list-style-type: none">1. To carry good dairy processing practices from milk collection to pasteurization to sterilization.2. To understand the concept of special milks.3. To understand he cleaning & sanitation processes.4. Students will be able to understand dairy plant layout and cold storages.
5	B.Sc. II	Paper- VII Animal nutrition	After completion, the students will be able to... <ol style="list-style-type: none">1. To know the study of nutrients and their importance.2. Classify feeds and fodder.3. Understand the anatomy of digestive system in ruminants.
6	B.Sc. II	Paper- VIII	After completion, the students will be able to understand... <ol style="list-style-type: none">1. Indian dairy products and its comparison with western dairy products.2. The manufacture of desiccated milk products.3. The heat and acid coagulated milk products.4. The methods of manufacture of fat rich Indian dairy products.

7	B.Sc. II	Paper – XI Fodder Production & Feed Processing	After completion, the students can be... <ol style="list-style-type: none"> 1. Able to know the cultivation of important fodder crops and conservation of green fodders. 2. Understand the processing of inferior quality roughages. 3. Understand the agro-industrial by products and unconventional feeds. 4. They also understand the measures of energy value and protein value of feeding stuff.
8	B.Sc. II	Paper- XII Cheese & Fermented Milk Products	After completion of course, the students can be... <ol style="list-style-type: none"> 1. Understand the starter culture. 2. Study the cheese, its history, current status and scope in dairy industry 3. Able to understand the technology of manufacture of cheese varieties. 4. Understand the composition, nutritive value and preparation of fermented milk products.
9	B.Sc. III	Paper- XV Animal Reproduction & Artificial Insemination	After completion of course, the students can be able to understand ... <ol style="list-style-type: none"> 1. The reproductive system of cattle. 2. Oestrus cycle, ovulation, fertilization & implantation. 3. Gestation and pregnancy diagnosis. 4. Parturition, artificial insemination and bio-techniques in animal reproduction.
10	B.Sc. III	Paper- XVI	After completion of course, the students can be able to understand ... <ol style="list-style-type: none"> 1. History, development and status of ice-cream industry. 2. Manufacture of ice-cream, their physico-chemical properties, defects, their causes and prevention. 3. Manufacture of indigenous frozen desserts, fat rich dairy products, etc.
11	B.Sc. III	Paper- XIX Genetics & animal breeding	After completion of course, the students can be able to understand the following concepts... <ol style="list-style-type: none"> 1. Genetics, its terminology, cell division, mutation, variation, sex chromosome, linkage, gene and their functions. 2. Animal breeding – fertility and sterility, selection of traits and systems of animal breeding.
12	B.Sc. III	Paper- XIX Condensed, dried milks & by-products	After completion of course, the students can be able to understand the following concepts... <ol style="list-style-type: none"> 1. Condensed and evaporated milks. 2. Dried milks and by-products. 3. Food safety and quality assurance.


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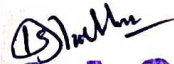

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Program Specific Outcomes of B.Sc. Horticulture

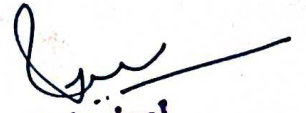
After completing B.Sc. Horticulture student get theoretical and practical knowledge of Horticulture subject

- ✓ They can start their own self-employment business such as Horticulture, farming, Hi Tech Greenhouse farming
- ✓ Nursery, Mushroom and Apiculture, Processing of fruits and vegetables gardening and landscaping etc.
- ✓ They have opportunities at various agriculture-oriented companies such as processing, fertilizer company., seed industry, processing industry, import and export of agriculture products, pesticide company etc.
- ✓ They also can start their consultancy to agricultural farmers
- ✓ They can help to their farmers
- ✓ They can develop their own land by utilizing subject knowledge and increase their agriculture-oriented income
- ✓ They learn modern techniques of farming
- ✓ They get knowledge of plant, equipment's, pest, and diseases etc.
- ✓ They can start their agri- clinics and business management
- ✓ They get laboratory hands on experience and skills



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Course Outcome of B.Sc. Horticulture

Paper No	Course Code	Course Title	Course Outcome
I	HORT-111	Elements of Horticulture	<ol style="list-style-type: none">1. Student get knowledge of Importance, scope branches of Horticulture,2. They learn about basics of Horticulture. Propagation Techniques like grafting, budding, layering, tissue culture etc.3. They can start nursery business and small-scale horticulture.
II	HORT - 112	Vegetable Growing-I	<p>Student can learn</p> <ol style="list-style-type: none">1. Complete knowledge of Vegetable Growing its importance, scope, classification, nursery management and cultivation techniques of Indian and exotic vegetables.2. They learn about various types of farming and cropping pattern.3. They learn about the Hi Tech-Nursery management Practices and transplanting. Mulching and vegetable carving
III	HORT - 121	Practical based on I and II	<ol style="list-style-type: none">1. Student get acquainted with various tools, equipment's for gardening, learn about potting, repotting etc., and it's caring.2. The learn about grafting budding, tissue culture and other propagation techniques. Mulching and vegetable carving , mushroom production.
IV	HORT - 211	Ornamental Horticulture	<ol style="list-style-type: none">1. Learn about various classifications of ornamental plants, Principles of garden designs, garden types, garden features, elements, cultivation technology of cut and loose flowers greenhouse cultivation and management practices, Terrarium, Bonsai Culture. Flower arrangement, dry decoration
V	HORT - 212	Vegetable Growing-II	<ol style="list-style-type: none">1. Student can learn cultivation/ Raising of fruit, root, stem, pod, bean, cucurbitaceous, cole, perennial, bulb, tuber, rhizome, leafy and exotic vegetables.2. They learn about mushroom production techniques and export management practices
VI	HORT - 221	Practical based on IV and V	<ol style="list-style-type: none">1. They get hands on experience and theoretical knowledge of Introduction and identification of ornamental crops and its importance, Layout of garden: - Formal and informal Exhibition of cut flowers, Floral

			<p>arraignment, Garlands & Bouquets. Collection & Identification of insects, pests. Preparation and maintenance of lawn. Preparation of terrarium. Raising of seed, its Transplanting, Irrigation layout, Pruning, Mulching, Harvesting and grading, Packing stocking and bundling of leafy vegetables</p> <p>2. Study of growing vegetable from planting to harvest.</p>
VII	HORT - 311	Principles and Technology of Fruit gardening	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Fruit Gardening- Definition, Importance, and scope. 2. Soil and climatic requirement for fruit crops. Climatic zones of Maharashtra/ India. 3. Methods and Systems of planting material., after care of plating, fencing, role of wind brakes and shelter belts. 4. Orchard management practices, Clean cultivation, crop rotation, intercropping, 5. Multistoried Role of mulching its merits and demerits Inter cultivation operations in fruit crops, Irrigation-water requirement of fruit crops. 6. Methods of irrigation- Ring of basin furrow sprinkler and drip irrigation, Rain gun irrigation. 7. Role of plant growth regulators on fruit crops (Its types) Insect pests and diseases management
VIII	HORT - 312	Orchard Management of Fruit Crops	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Nutritional requirements of fruit crops of and manures in fruit gardening, 2. Fruit Gardening, soil and climatic management 3. Role of essential nutrients- Macro-micro nutrients. 4. Basic principles of Manures, types of manures, Methods of preparation of manures, FYM, Compost, Urban compost, Vermi compost, green manuring, and its role in fruit crops. 5. Principles and methods of application of fertilizers and Bio-fertilizers.. 6. Training and Pruning- Special Horticultural practices for inducing Fruiting in fruit crops
IX	HORT - 321	Practical based on VII	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Layout of system of planting. 2. Digging and filling of pits for fruit tree plantation. 3. Selection of planting material and transplanting of fruit crops. 4. Study of flowering and fruiting habits in fruit trees. 5. Intercultural operations in fruit crops. 6. Identification, collection of important pest and disease of fruit crops. Method of control of pest and disease in fruit crops. 7. Preparation and application of plant growth


			<p>regulators</p> <ol style="list-style-type: none"> 8. Preparation of Bordeaux Mixture and pest. 9. Irrigation layout 10. Visit to commercial orchard.
X	HORT - 322	Practical based on VIII	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Methods of preparation of FYM, Compos, Green manure, vermicompost, 2. Methods of application of Fertilizers, bio-Fertilizers, Liquid fertilizers, Bio-gas and bio stories 3. Special horticultural practices, Bahar treatment, Notching in Fig, Ringing in Mango, Girdling in grape, Bending in Guava, Root proving in citrus, training, and pruning,
XI	HORT - 411	Cultivation Technology of fruit Crops	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Methods of cultivation of various fruit crops like Mango, Banana, Citrus, Guava, etc.
XII	HORT - 412	Production Technology of Plantation, Spices, Condiments and medicinal and aromatic plants	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Scope and importance of spices and condiments, plantation crops, medicinal and aromatic plants. 2. Study of important cultivation technology of crops like Ginger, Turmeric, Pepper, Cardamom, Cumin, etc.
XIII	HORT - 421	Practical based on XI	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Identification of fruit crops and their varieties. 2. Role of Root stocks used in fallowing crops. 3. Mango malformation. 4. Paclobutrazol treatment for alternate bearing of mango 5. Banana plantation by rhizome/suckers 6. Bahar treatment in pomegranate 7. Plant protection in grape, pomegranate, Ber. 8. Papain extraction from papaya. 9. Visit to various commercial fruit orchard.
XIV	HORT - 422	Practical based on XII	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Storage of ginger rhizomes 2. Processing of turmeric- Curing, Polishing, and coloring. 3. Production of Coconut nursery Seedlings. 4. Training, trailing and lowering of betel vines . 5. Training and pruning in coffee. 6. Preparation of Value-Added Products of Coconut 7. Drying of stevia plant leaves. 8. Lancing and latex collection of opium crop 9. Distillation of citronella, Lemon grass and geranium.

XV	HORT - 511	Post-Harvest Management of Fruits and Vegetables	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Importance and Scope, Futures status of post-harvest management of fruits and Vegetables. 2. Future status of post-harvest management of fruits and Vegetables. 3. Nutritional value of fruits and Vegetables in human diets. 4. Ripening factors responsible for ripening, pre-harvest & post-harvest factors Climacteric and non-climacteric types of fruits and Vegetables. 5. Methods of grading and packaging, storage , Post-harvest disease and pest management , pre-cooling, Transportation, 6. Marketing and Export of fruits and vegetables.
XVI	HORT - 512	Mushroom Culture and Apiculture	<ol style="list-style-type: none"> 1. Introduction, Scope and Importance, Nutritional Importance, Classification and types, Morphology of Mushroom 2. Preparation of Culture Media and Spawns. 3. Cultivation of Oyster, white button, and Paddy straw mushroom. 4. Types of honey bee, Castes of honey bee, Bee keeping accessories, 5. how to acquire and hive bees, Management of Apiculture: 6. Economics of bee keeping
XVII	HORT - 521	Practical based on XV	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Maturity Signs and Harvesting of Fruits and Vegetables 2. Identification of Different equipment's used in Processing of Fruits and Vegetables 3. Pre-cooling, Grading, Packaging and Storage of Fruits and Vegetables 4. Identification of Post-Harvest diseases and pests of Fruits and Vegetables.) 5. Determination of Total Soluble Solid (TSS), Acids (Citric and Acetic Acid), Vitamin C (Ascorbic Acid) by titration, Pigments, Vitamin A (beta – Carotenes), Reducing and Total Sugars from Fruits. dry ashing. 6. Estimation of starch from potato and sweet potato. 7. Preparation of gums from cluster beans.
XVIII	HORT - 522	Practical based on XVI	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Introduction, Classification of Mushrooms. 2. Preparation of culture media. master and commercial spawns 3. Cultivation of oyster, white button and paddy straw mushroom 4. Different method of composting techniques. 5. Types of honey bee, Castes of honey bee, 6. Bee keeping tools and accessories

			<p>7. Pests and diseases of honey bees, 8. Harvesting and processing of bee products 9. Visit to Mushroom culture/ Apiculture 10. Project preparation of mushroom/apiculture</p>
XIX	HORT - 611	Preservation of Fruits and Vegetables	<p>Student can learn</p> <ol style="list-style-type: none"> 1. History, Importance and scope, Principles of preservation of fruits and vegetables. 2. Methods of preservation, 3. Study of containers for packaging of preserved products, 4. Quality control standards, ISI, food laws, sanitation etc. 5. Testing of preserved products. 6. Packaging, Transportation, and Exportation of preserved products.
XX	HORT - 612	Horticulture Business Management	<ol style="list-style-type: none"> 1. Role of Agencies and Business Management Factors such as NABARD, RBI, ICAR, IARI etc. 2. Concept of Enter pruner/Business and Role Meaning, process of Entrepreneurship Development Programme, 3. Motivation and Motivating factors Project Report formulations etc.
XXI	HORT - 621	Practical based on XIX	<ol style="list-style-type: none"> 1. Student can learn and of practical knowledge of Canning, Drying and Dehydration, Juice, Jam, Jelly and marmalade, pickles, preserve and candy raisin , vinegar, beverages, juice Ready to serve (RTS), nectar, Fruit juice powder, fruit juice concentration, wafers, chips, flour, chutney from fruits and Vegetables
XXII	HORT- 622	Practical based on XX	<p>Student can learn</p> <ol style="list-style-type: none"> 1. Steps in formulating a project proposal. 2. Case study of successful entrepreneurs, successful progressive farmers, Women enter pruner, 3. SWOT analysis, 4. Cost of cultivation, production, and bear even analysis. 5. Certification procedure of organic products. 6. Phytosanitary certification of export-oriented products. 7. Field visit to successful Agri – enterprise. 8. Visit to Agri clinics and Agri business center 9. Visit to commercial, cooperative bank, NABARD etc. 10. Studies of local market survey based on enterprise. 11. Preparation of project report for enterprise or processing unit 12. Preparation of project report for greenhouse. 13. Presentation of Project report


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Department of Herbal Technology

COURSE OUTCOMES



M.Sc. HT – I year Paper- HT-101 Introduction to Herbs

1. Understand the ex-situ and in-situ conservation of medicinal plants
2. To know the systematic methods of cultivation and post harvest technology of medicinal plants.
3. To understand the factors influencing the production of crude drugs.
4. To know the pest and weed control, disease management.
5. To study the medicinal plant parts.
6. To understand the concept of crude drugs and its classification.
7. To understand the classification and nomenclature of plants.

M.Sc. HT – I year Paper- HT-102 Herbal Processing

1. To understand how to analyse the particle size.
2. Screen analysis- differential, cumulative analysis, screening and their types, vibrating screen and its operations, variables in screening operations.
3. To understand methods of handling the solids.
4. To understand the filtration methods, its principle, types, construction, working advantages and disadvantages.
5. To know the concept of sedimentation.

M.Sc. HT – I year Paper- HT-103 Isolation and Separation Techniques

1. To understand the general techniques of isolation and separation like solvent extraction, distillation, etc.
2. To understand the theoretical principle, instrumentation and applications of chromatography, column chromatography, gas and ion exchange chromatography, HPLC technique

M.Sc. HT – I year Paper- HT-104 Phytochemistry

1. To understand the occurrence, chemistry, isolation and chemical tests of natural products.
2. To know the biogenesis of the natural products.
3. To elucidate the structure of the phyto-constituents.
4. To know some phyto-pharmaceuticals of therapeutic classes.

M.Sc. HT – I year Paper- HT-201 Herbal Products

After completion of the course, students will be able to..

1. Know the precautions, advantages, disadvantages and classification of Churn, Kwath, Vati, Ksheera Paka, Tablets.
2. To understand the Indian systems of medicine.

3. To aware of the scope and history of pharmacy, pharmacopoeia, pharmacognosy and pharmacodynamics.
4. To know the various types of instruments in pharmaceuticals, internal and external applicants.

M.Sc. HT – I year Paper- HT-202 Herbal Post Harvest Technology

After completion of the course, students will be able to..

1. To understand the post harvest technology, its principal, history, priorities and strategy, steps, components, transport etc.
2. To know the concept of herbal drying and dryers.
3. To get the herbal packaging and handling theory in details.

M.Sc. HT – I year Paper- HT-203 Herbal Biotechnology

After completion of the course, students will be able to..

1. To understand the genetics and molecular biology.
2. To know the concept of plant breeding and hybridization for quality improvement of herbal crops.
3. To know the mutation breeding.
4. To understand the concept of tissue culture for crop improvement.
5. To know the germplasm conservation and organogenesis.

M.Sc. HT – I year Paper- HT-204 Analytical Techniques

After completion of the course, students will be able to..

1. Understand principal, theory, instrumentation of UV visible, IR, $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ and mass spectroscopic techniques.

M.Sc. HT – II year Paper- HT-301 Herbal Trade and IPR

After completion of the course, students will be able to..

1. Understand cultivation practices, collection, harvesting, drying, dressing, packing, preservation and forwarding of crude drugs.
2. To detect the adulterants with reference to anatomical features.
3. To know the concept and types of entrepreneur, factors promoting to it, role and functions, meaning and importance, development of entrepreneurship in India.
4. To understand the export and import policies with reference to herbal products and drugs.
5. To know the concept of IPR and patenting to solve legal issues in registering herbal products/drugs.

M.Sc. HT – II year Paper- HT-302 Herbal Beverages

After completion of the course, students will be able to..

1. Understand scope, types and importance of herbal beverages.
2. To know non-alcoholic beverages derived from tea, coffee and cocoa, fruit juices etc.

3. To know the process of fermentation.
4. To understand the industrial fermentation for alcohol production, preparation of ethanol from molasses, barley, starch, grapes etc.
5. To know the chemical composition, types of wines, distilled beverages and effects of alcohol on human body.

M.Sc. HT – II year Paper- HT- 303 Herbal Business Management

After completion of the course, students will be able to..

1. Understand the field and farm management.
2. Know the farm financial management.
3. To know the principles, functions, strategy and business goals of organization.
4. To enhance the skills in communication networks in organization.
5. Aware about herbal marketing. Marketing practices and their challenges.
6. To develop the policy and prospects of exports and imports of herbal products.

M.Sc. HT – I year Paper- HT-304 Pharmacognosy

After completion of the course, students will be able to..

1. Understand the history of medicinal and aromatic plants and their importance and its demand supply.
2. To know the drugs containing carbohydrates, glycosides, tannins, lipids, volatile oil, resins and resin combinations, and alkaloids.


I Q A C
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