



M.V.P SAMAJ'S

Karmaveer Ganpat Dada More Arts, Commerce & Science College, Niphad Dist. Nashik
Program and Course outcomes of Department of English

Program: B.A. English		
Program Outcomes		1.To develop linguistic competence of Students. 2.To introduce them with excellent pieces of writings in English Literature. 3.To familiarize them with basics of English Language. 4.To develop the ability of communicating in English among the students.
Sr. No.	Course	Outcomes
1	F. Y. B. A. Compulsory English (w. e. f- 2019- 2020) <i>Prescribed Text:</i> <i>Literary Gleam: An Anthology of Prose and Poetry</i>	1.To expose students to the best examples of prose and poetry in English so that they realize the beauty and communicative power of English. 2.To instill human values and develop the character of students as responsible citizens of the world. 3.To develop the ability to appreciate ideas and think critically. 4.To enhance employability of the students by developing their linguistic competence and communicative skills. 5.To revise and reinforce structures already learnt in the Previous stages of learning.
2	F. Y. B. A. Optional English (General Paper-I) (w. e. f- 2019-2020) <i>Initiations: Minor Literary Forms & Basics of Phonology (Board of Editors- Orient Black Swan)</i>	1.To expose students to the basics of literature and language and develop an integrated view about language and literature in them. 2. To acquaint them with minor forms of literature in English 3. To help them to appreciate the creative use of language in literature. 4. To introduce them to the basics of phonology of English sothat they can pronounce better and speak English correctly. 5. To prepare students to go for detailed study and understanding of literature and language. 6. To enable the job potential of students by improving their language skills.
3	F.Y.B.Com Compulsory English (w. e. f. 2019- 2020) <i>Prescribed Text Success Avenue</i>	1. To offer relevant and practically helpful pieces of prose and poetry to students that they not only get to know the beauty and communicative power of English but also its practical application. 2. To expose students to a variety of topics that dominate the contemporary socio-economic and cultural life. 3. To develop oral and written communication skills of the students so that their employability enhances. d) To develop overall linguistic competence and communicative skills of students.

4	F.Y.B.Com (Additional English) (w. e. f. 2019-2020) <i>Prescribed Text: Pearls of Wisdom</i>	<ol style="list-style-type: none"> 1. To expose students to a good blend of old and new literary extracts having various themes that are entertaining, enlightening and informative so that they realize the beauty and communicative power of English. 2. To make students aware of the cultural values and the major problems in the world today. 3. To develop literary sensibilities and communicative abilities among students.
5	S. Y. B. A. Compulsory English (w. e. f- 2020- 2021) <i>Prescribed Text: Panorama: Values and Skills through Literature</i>	<ol style="list-style-type: none"> 1. To expose students to the best examples of literature in English and to contribute to their emotional quotient as well as independent thinking. 2. To instil universal human values through best pieces of literature in English. 3. To develop effective communication skills by developing ability to use right words in the right context. 4. To enhance employability of the students by developing their basic soft skills. 5. To revise and reinforce the learning of some important areas of grammar for better linguistic competence.
6	S. Y. B. A (G2) Skill Enhancement Course (w. e. f- 2020-2021)- SEC-1A <i>Advanced Study of English Language</i>	<ol style="list-style-type: none"> 1. To familiarize students with the various components of language. 2. To develop overall linguistic competence of the students. 3. To introduce students to some advanced areas of language study. 4. To prepare students to go for detailed study and understanding of language. 5. To enhance communicative skills of students by developing insight into the working of language.
7	S. Y. B. A.(S1) Discipline Specific Course (DSC-1A) <i>Appreciating Drama (w. e. f- 2020-2021)</i> <ol style="list-style-type: none"> 1) <i>Midsummer Night's Dream</i> by William Shakespeare 2) <i>Arms and the Man</i> by George Bernard Shaw 3) <i>The Fire and the Rain</i> by Girish Karnad 	<ol style="list-style-type: none"> 1. To introduce Drama as a major form of literature. 2. To introduce minor forms of Drama. 3. To acquaint and enlighten students regarding the literary and the performing dimensions of drama. 4. To acquaint and familiarize the students with the elements and the types of Drama. 5. To encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world. 6. To develop interest among the students to appreciate and analyze drama independently. 7. To enhance students' awareness regarding aesthetics of Drama and to empower them to evaluate drama independently.

8	<p>S. Y. B. A (S2) Discipline Specific Course (DSC-2A) (w. e. f- 2020-2021) <i>Title of the Paper: Appreciating Poetry</i> <i>Mirage: An Anthology of English Poetry Ed. Board of Editors, Orient Blackswan</i></p>	<ol style="list-style-type: none"> 1. To acquaint and familiarize the students with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems). 2. To encourage students to make a detailed study of a few sample masterpieces of English poetry. 3. To enhance students' awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate the poetry independently.
9	<p>Skill Enhancement Course- (SEC-2A) (w.e.f-2020- 2021) <i>"Mastering Communication Skills"</i></p>	<ol style="list-style-type: none"> 1. Enhancing the skill of using English for everyday communication. 2. To acquaint the students with the verbal and nonverbal communication. 3. To create opportunities to access exposure of speaking in various contexts. 4. To acquaint and familiarize the students with soft skills. 5. To develop interest among the students to interact in English.
10	<p>S. Y. B. Sc. Optional English (w. e. f- 2021-22). (Ability Enhancement Compulsory Course-AECC <i>Horizons: English in Multivalent Contexts</i></p>	<ol style="list-style-type: none"> 1. To introduce the use of English in multimedia. 2. To acquaint the students with the language skills in multivalent contexts. 3. To acquaint and enlighten students regarding the speaking skill in various contexts. 4. To acquaint and familiarize the students with advanced writing skills in different contexts. 5. To acquaint and familiarize the students with soft skills.
11	<p>T. Y. B. A. Compulsory English (w. e. f- 2021-22) <i>Exploring New Horizons</i></p>	<ol style="list-style-type: none"> 1. To familiarize students with some excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English. 2. To enable students to become competent and effective users of English in real life situations. 3. To contribute to the overall personality development of the students. 4. To instill humanitarian values and foster sympathetic attitude in the students. 5. To train the students in practical writing skills required in work environment. 6. To impart knowledge of some essential soft skills to enhance their employability.
12	<p>T. Y. B. A (G3) Skill Enhancement Course (SEC 1-C & SEC 1-D) (w. e. f- 2021-22) <i>Aspirations: English for Careers</i></p>	<ol style="list-style-type: none"> 1. To get the awareness of career opportunities available to them. 2. To identify the career opportunities suitable to them. 3. To understand the use of English in different careers. 4. To develop competence in using English for the career of their choice. 5. To enhance skills required for their placement. 6. To use English effectively in the career of their choice. 7. To exercise verbal as well as nonverbal communication effectively for their career.

13	T.Y.B.A. (S3) Appreciating Novel (w. e. f. 2021-22) Discipline Specific Elective 1) <i>Silas Marner- George Eliot</i> 2) <i>A Farewell to Arms- Ernest Hemingway</i> 3) <i>The Painter of Signs- R. K Narayan</i>	<ol style="list-style-type: none"> 1. To introduce students to the basics of novel as a literary form 2. To expose students to the historical development and nature of novel . 3. To make students aware of different types and aspects of novel. 4. To develop literary sensibility and sense of cultural diversity in students. 5. To expose students to some of the best examples of novel.
14	T.Y.B.A (S4) Discipline Specific Elective (w. e. f. 2021-22) <i>Introduction to Literary Criticism</i>	<ol style="list-style-type: none"> 1. To introduce students to the basics of literary criticism. 2. To make them aware of the nature and historical development of criticism. 3. To make them familiar with the significant critical approaches and terms. 4. To encourage students to interpret literary works in the light of the critical approaches. 5. To develop aptitude for critical analysis.
15	T.Y.B.A. Skill Enhancement Course (w. e. f. 2021-22) (SEC 2-C & SEC 2-D) <i>Mastering Life Skills and Life Values</i>	<ol style="list-style-type: none"> 1 To equip the students with the social skills. 2. To train the students interpersonal skills. 3. To build self-confidence and communicate effectively. 4. To Encourage the students to think critically 5. To learn stress management and positive thinking. 6. To enhance leadership qualities. 7. To aware the students about universal human values. 8. To develop overall personality of the students.

L.J. Susan

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M.V.P. SAMAJ'S K.G.D.M. ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD मराठी विभाग
PROGRAMME COURSE OUTCOME 2022-23

Sr. no.	Course	Course outcome (2022-2023)
01	FYBA कला विभाग - विषय मराठी मराठी विषयाचे उद्दिष्टे FYBA - २०१९ पासून	१) मराठी भाषा मराठी साहित्य आणि मराठी संस्कृती यांचे अध्ययन करणे. २) साहित्यविषयक आकलन आस्वाद आणि मूल्यमापन क्षमता विकसित करणे. ३) साहित्य अभ्यासातून जीवनविषयक समज विकसित करणे. ४) मराठी भाषेची उपयोजनात्मक कौशल्य विकसित करणे.
02	FYBA - २०१९ पासून सत्र पहिले मराठी साहित्य कथा आणि भाषिक कौशल्य विकास	कथा या साहित्यप्रकाराची ओळख करून देणे. कथा या साहित्य प्रकाराचे स्वरूप घटक आणि प्रकार यांची ओळख करून देणे. विविध साहित्य प्रवाह मधील कथा या साहित्य प्रकारातील निवडक कथांचे अध्ययन करणे. भाषिक कौशल्य विकास करणे.
03	सत्र दुसरे - मराठी साहित्य एकांकिका आणि भाषिक कौशल्य विकास	एकांकिका या साहित्यप्रकाराची ओळख करून देणे. एकांकिका या साहित्य प्रकाराचे स्वरूप घटक आणि प्रकार यांची ओळख करून देणे. मराठी साहित्यातील निवडक एकांकिकांचे अध्ययन करणे. भाषिक कौशल्य विकास करणे.
04	FYBCOM - मराठी 2019 पासून सत्र पहिले भाषा साहित्य आणि कौशल्य विकास	विविध क्षेत्रातील भाषा व्यवहाराचे स्वरूप व गरज समजावून देणे. व्यवहार क्षेत्रातील मराठी भाषेचे स्थान स्पष्ट करणे व त्यातील मराठीच्या प्रत्यक्ष वापराचा अभ्यास करणे. विविध क्षेत्रीय मराठी भाषेच्या वापराची कौशल्य विकसित करणे. विविध लेखन प्रकारांचा अभ्यास व प्रत्यक्ष लेखनाची कौशल्य वापरण्यास सक्षम करणे. विविध क्षेत्रातील कर्तृत्ववान व्यक्तींच्या कार्याची व विचारांची ओळख करून देणे. विद्यार्थ्यांमध्ये नैतिक, व्यवसायिक व वैचारिक मूल्यांची जोपासना करणे.
05	सत्र दुसरे भाषा आणि कौशल्य विकास	मराठी भाषेतील विविध लेखन प्रकारांची माहिती अभ्यासणे. अर्ज लेखन व पत्रलेखन याचे स्वरूप प्रकार व कौशल्य आत्मसात करणे. प्रशासनिक मराठी व त्यातील विविध प्रकारचे लेखन कौशल्य समजावून घेणे.



		प्रगत भाषिक कौशल्य आत्मसात करणे.
		विविध प्रसार माध्यमांसाठी असलेले जाहिरात लेखन त्याचे स्वरूप व तंत्र समजावून घेणे.
06	SYBA २०२० पासून सत्र १ Gen - 2 भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार कादंबरी	कादंबरी या साहित्य प्रकाराचे स्वरूप, घटक, प्रकार आणि वाटचाल समजून घेणे. नेमलेल्या कादंबरीचे आकलन, आस्वाद आणि विश्लेषण करणे. भाषिक कौशल्य विकास करणे.
07	सत्र २ Gen - 2 भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार - ललित गद्य	ललित गद्य साहित्य प्रकाराचे स्वरूप घटक प्रकार आणि वाटचाल समजून घेणे. नेमलेल्या अभ्यास पुस्तकातील ललित गद्याचे आकलन आस्वाद आणि विश्लेषण करणे. भाषिक कौशल्य विकास करणे.
08	सत्र १ SPL - I आधुनिक मराठी साहित्य - प्रकाशवाटा	आत्मचरित्र या साहित्यप्रकाराचे स्वरूप, संकल्पना समजावून घेणे. आत्मचरित्र आत्मचरित्र या साहित्यप्रकाराचा प्रेरणा आणि वाटचाल यांची ओळख करून घेणे. ललित साहित्यातील अन्य साहित्य प्रकारांच्या तुलनेत आत्मचरित्राचे वेगळेपण समजावून घेणे. नेमलेल्या या आत्मचरित्राचे आकलन आस्वाद आणि विश्लेषण करणे.
09	सत्र २ SPL - I मध्ययुगीन मराठी साहित्य - निवडक मध्ययुगीन गद्य - पद्य	मध्ययुगीन गद्य, पद्य साहित्य प्रकारांची ओळख करून घेणे. नेमलेल्या अभ्यास पुस्तकातील मध्ययुगीन गद्य, पद्य यांचे आकलन, आस्वाद आणि विश्लेषण करणे. साहित्य विचार - भारतीय आणि पाश्चात्य साहित्य विचाराच्या आधारे साहित्याची संकल्पना, स्वरूप आणि प्रयोजन विचार समजावून घेणे. साहित्याची निर्मिती प्रक्रिया समजावून घेणे साहित्याची भाषा आणि शैली विषयक विचार समजावून घेणे
10	सत्र १ SPL - II साहित्यविचार	भारतीय आणि पाश्चात्य साहित्य विचारांच्या आधारे साहित्याची संकल्पना, स्वरूप आणि प्रयोजन विचार समजावून घेणे. साहित्याची निर्मिती प्रक्रिया समजावून घेणे. साहित्याची भाषा आणि शैलीविषयक विचार समजावून घेणे.
11	सत्र २ SPL - II साहित्य समीक्षा	साहित्य समीक्षा - संकल्पना, स्वरूप यांचा परिचय करून घेणे. साहित्य आणि समीक्षा यांचे परस्पर संबंध समजावून घेणे व अभ्यासणे. साहित्य प्रकारानुसार समीक्षेचे स्वरूप समजावून घेणे व अभ्यासणे.



		ग्रंथपरिचय परीक्षण व समीक्षण यातील फरक समजावून घेणे.
12	SEC सत्र १ प्रकाशन व्यवहार आणि संपादन	<p>प्रकाशन व्यवहार आणि संपादन यासाठी आवश्यक कौशल्ये मिळविणे.</p> <p>प्रकाशन व्यवहार आणि संपादन यासाठी आवश्यक प्रशिक्षण घेणे.</p> <p>प्रकाशन व्यवहार आणि संपादन यासाठी प्रात्यक्षिकासह उपयोजनाचे कौशल्ये मिळविणे.</p> <p>प्रकाशन संस्था, जाहिरात संस्था, छापखाने, वृत्तपत्र कार्यालय, वितरण संस्था, ग्रंथविक्री दुकाने, फ्लेक्स निर्मिती केंद्र, वार्ताहर यांना भेटी देऊन प्रशिक्षण घेणे.</p>
13	SEC सत्र २ उपयोजित लेखन कौशल्ये	<p>जाहिरात, मुलाखतलेखन आणि संपादन यासाठी आवश्यक कौशल्ये मिळविणे.</p> <p>जाहिरात, मुलाखतलेखन आणि संपादन यासाठी आवश्यक प्रशिक्षण घेणे.</p> <p>जाहिरात, मुलाखतलेखन आणि संपादन यासाठी प्रात्यक्षिकासह उपयोजनाची कौशल्ये मिळविणे.</p>
14	MIL (आधुनिक भारतीय भाषा) सत्र पहिले विषयाचे नाव - मराठी भाषिक संज्ञापन कौशल्ये	<p>प्रगत भाषेत कौशल्यांची क्षमता विकसित करणे.</p> <p>प्रसार माध्यमांतील, संज्ञापनातील भाषेचे स्वरूप आणि स्थान स्पष्ट करणे.</p> <p>व्यक्तिमत्व विकास आणि भाषण यांच्यातील सहसंबंध स्पष्ट करणे.</p> <p>लोकशाहीतील जीवन व्यवहार आणि प्रसारमाध्यमे यांचे परस्पर संबंध स्पष्ट करणे.</p> <p>प्रसारमाध्यमांसाठी लेखन क्षमता विकसित करणे.</p>
15	सत्र दुसरे विषयाचे नाव - नवमाध्यमे व समाज माध्यमांसाठी मराठी	<p>संज्ञापनातील नव माध्यमे आणि समाज माध्यमांचे स्वरूप आणि स्थान स्पष्ट करणे.</p> <p>भाषा जीवनव्यवहार आणि नव माध्यमे, समाज माध्यमांचे परस्पर संबंध स्पष्ट करणे.</p> <p>नवी माध्यमे आणि समाज माध्यमांसाठी लेखन क्षमता विकसित करणे.</p> <p>नव माध्यमे आणि समाज माध्यमांचा वापर आणि परिणाम यांच्या बदल चर्चा करणे.</p> <p>नवी माध्यमे आणि समाज माध्यमविषयक साक्षरता निर्माण करणे.</p>
16	SYBSC विषय मराठी 2020 पासून सत्र पहिले विषयाचे नाव - उपयोजित मराठी	<p>मराठी भाषा, साहित्य आणि यांच्या परस्पर संबंधांची जाणीव करून देणे.</p> <p>मराठी भाषेचा परिभाषा सापेक्ष आणि शैली सापेक्ष विकास विद्यार्थ्यांच्या लक्षात आणून देणे.</p> <p>मराठी भाषेची उपयोजनात्मक कौशल्य विकसित करणे.</p>



17	सत्र दुसरे विषयाचे नाव - मराठी साहित्य (अभ्यास पुस्तक - मराठी कथा दर्शन)	साहित्यविषयक अभिरुची विकसित करणे. मराठी भाषा, साहित्य आणि यांच्या परस्पर संबंधांची जाणीव करून देणे. साहित्यविषयक अभ्यासातून जीवन विषयक समज विकसित करणे. विज्ञान साहित्यविषयक आकलन क्षमता वाढवणे.
18	TYBA- २०२१ पासून सत्र १ Gen- 3 भाषिक कौशल्ये विकास आणि - आधुनिक मराठी साहित्य प्रकार - प्रवास वर्णन	मुद्रित माध्यमांसाठी लेखन कौशल्ये आत्मसात करणे. प्रवास वर्णन या साहित्य प्रकाराचे स्वरूप प्रेरणा प्रयोजने वैशिष्ट्ये आणि वाटचाल समजून घेणे. नेमलेल्या प्रवास वर्णनाचे आकलन आस्वाद आणि विश्लेषण करणे.
19	सत्र २ Gen- 3 भाषिक कौशल्ये विकास आणि आधुनिक मराठी साहित्य प्रकार - कविता	मराठी साहित्य भाषिक कौशल्ये विकास आणि शासन व्यवहार यांची माहिती घेणे. कविता या साहित्यप्रकाराचे स्वरूप वाटचाल प्रेरणा-प्रवृत्ती आणि वैशिष्ट्ये समजून घेणे. नेमलेल्या अभ्यास पुस्तिकेतील निवडक कवितांचे आकलन आस्वाद आणि विश्लेषण करणे. कविता - या साहित्य प्रकारातील विविध अविष्कार व भाषा रूपांची अभ्यास पुस्तकातील कवितांच्या आधारे ओळख करून घेणे.
20	सत्र १ SPL - 3 आधुनिक मराठी वाड.मयाचा स्थूल इतिहास - प्रारंभ ते इ.स. 1600	मराठी वांगमयाचा इतिहास संकल्पना स्वरूप प्रेरणा-प्रवृत्ती समजून घेणे. मध्ययुगीन कालखंडातील सामाजिक सांस्कृतिक पार्श्वभूमी समजून घेणे. मराठी भाषा साहित्याची कालखंडानुसार इतिहास समजून घेणे.
21	सत्र २ SPL - 3 आधुनिक मराठी वांगमयाचा इतिहास - 1600 ते 1817	शिवकाल आणि पेशवे काळातील वांगमय निर्मिती स्वरूप, सामाजिक, सांस्कृतिक पार्श्वभूमी समजावून घेणे. पंडित आणि शाहिरांची वांगमय निर्मिती - स्वरूप, प्रेरणा, प्रवृत्ती, वैशिष्ट्ये समजावून घेणे. बखर आणि गद्य वांगमय निर्मिती - स्वरूप, प्रेरणा, प्रवृत्ती आणि वैशिष्ट्ये समजावून घेणे.
22	भाषाविज्ञान सत्र १ SPL - ४ वर्णनात्मक भाषाविज्ञान - भाग एक	भाषा स्वरूप वैशिष्ट्ये व कार्य समजून घेणे. भाषा अभ्यासाची आवश्यकता स्पष्ट करणे. भाषा अभ्यासाच्या शाखा आणि विविध पद्धतींचा थोडक्यात परिचय करून घेणे. वागिन्द्रियांची रचना, कार्य आणि स्वन निर्मितीची प्रक्रिया समजून घेणे.



		स्वन विज्ञान, स्वनिम विचार आणि मराठीची स्वनिम व्यवस्था समजावून घेणे.
23	सत्र २ SPL - ४ वर्णनात्मक भाषाविज्ञान भाग - २	रूप विन्यास आणि मराठीची रूप व्यवस्था समजावून घेणे. वाक्य विन्यास आणि वाक्य व्यवस्थेचा मराठी भाषे संदर्भात परिचय करून घेणे. अर्थ विन्यास या संकल्पनेचा भाषा वैज्ञानिक अंगाने परिचय करून देणे.
24	SEC सत्र १ कार्यक्रम संयोजनातील भाषिक कौशल्ये	कार्यक्रमाचे स्वरूप आणि प्रकार समजून घेणे. कार्यक्रम संयोजनातील भाषिक कौशल्ये प्राप्त करणे.
25	SEC सत्र २ कार्यक्रम संयोजनातील भाषिक कौशल्य	कार्यक्रम संयोजनातील लेखन कौशल्ये संपादन करणे. कार्यक्रम संयोजनातील भाषिक कौशल्ये प्राप्त करणे. आभासी कार्यक्रमांचे भाषिक कौशल्ये संयोजन करणे.

S. G. Uphade

smt. S. G. Uphade

M. H. Bankar

shri M. H. Bankar

Pradyumn

प्राचार्य

कर्मवीर गणपत दादा मोरे

कला, वाणिज्य आणि विज्ञान महाविद्यालय
निफाड, जि. नाशिक



M.V.P. Samaj's

Karmaveer Ganpat Dada More Arts, Commerce & Science College, Niphad Dist. Nashik

Internal Quality Assurance Cell (IQAC)

Department of Psychology

Programme & course Outcomes for Bachelor of Arts Degree

2022-2023

Sr.No.	Course	Outcomes
		a) Understand the basic psychological processes and their applications in day to day life. b) Understand the basics of social psychology. c) Understand the importance, characteristics and concern in lifespan development. d) Learn descriptions, and theories underlying diagnostic nosology of psychiatric disorders.
1	DSC- Foundations of PSY- 1A Psychology	a) Understand the basic psychological processes and their applications in day to day life. b) Develop the ability to evaluate cognitive processes, learning and memory of an individual. c) Understand the importance of motivation and emotion of the individual. d) Understand the personality and intelligence of the individuals by developing their psychological processes and abstract potentials.
2	DSC- Introduction to Social PSY- 1B Psychology	a) Understand the basics of social psychology. b) Understand the nature of self, concept of attitude and prejudice of the individual. c) Assess the interactional processes, love and aggression in our day today life. . c) Understand group dynamics and individual in the social world.
3	DSE-1A: Psychology of Abnormal Behaviour-1	1. acquire the knowledge about the symptoms, diagnostic criteria, and causes of various psychological disorders 2. examine multiple probable causes and correlates of behaviour.

		<p>3. understand critiques, limitations, and implications of diagnosis and classification of psychological diseases.</p> <p>4. create awareness about mental health problems in society</p>
4	DSE-1B: Psychology of Abnormal Behaviour-2	<p>1. Learn descriptions, and theories underlying diagnostic nosology of psychiatric disorders.</p> <p>2. Learn and understand benefits, critiques, limitations, and implications of diagnosis and classification.</p> <p>3. Help students to acquire the knowledge about the symptoms, diagnostic criteria, and causes of various psychological disorders.</p> <p>4. Examine multiple probable causes and correlates of behaviour.</p> <p>5. Create awareness about mental health problems in society.</p>
5	DSE-2A : Developmental Psychology	<p>1: Understand the importance, characteristics and concern in lifespan development</p> <p>2: Understand biological, cognitive, and socio-emotional processes.</p> <p>3. Understand the periods of development, the significance of age, and discuss developmental issues.</p> <p>4. Understand Psychoanalytic, Cognitive, Behavioural and Social Cognitive, Ethological, Ecological and Eclectic theories of development</p> <p>5. Understand methods of data collection and research designs used in Life-span development research.</p>
6	DSE-2B: Theories of Personality	<p>1. Understand the concept of personality with various theories of personality on the basis of personality psychology.</p> <p>2. Understand different framework and theoretical aspects of personality.</p> <p>3. Understand and observe, interpret individual differences in behaviour in the light of sound theoretical systems of personality.</p>

		4. Understand comprehensive overview of the major theories personality.
7	CC/SEC- 1A: Health Psychology	1: Understand health psychology and arrive at the introduction to the role of psychology in health. 2: Understand the nature of stress and coping 3: Understand various factors related to health and diseases. 4: Understand quality of life and promoting the good health.
8	CC/SEC- 1B: Positive Psychology	1. Understand how the positive psychology as the science of happiness, human strengths, positive aspects of human behavior and 'psychology of well-being.' 2. How we lead our lives, find happiness and satisfaction, and face life's challenges. 3. How positive psychology has become an evolving mosaic of research and theory from many different areas of psychology.
9	SEC- 1C (Industrial and Organizational Psychology)	CO1: Describe the concept of industrial and organizational psychology, selection and training, evaluation and motivation at workplace. CO2: Explain job profile, job analysis, recruitment techniques and employee training. CO3: Identify and classify the appraisal rating system. CO4: Compare different theories of motivation. CO5: Evaluate the training programme and job performance.
10	SEC- 1D (Applied Psychology)	CO1: Describe the concept of applied psychology, educational psychology, family structure and developmental patterns. CO2: Know the clinical psychology related mechanisms, social issues, and criminal behavior. CO3: Classify the intellectual ability, abnormality, criminal behavior.

		<p>CO4: Identify the problems and solutions in the field of education,</p> <p>CO5: Evaluate the interpersonal relations.</p> <p>CO6: Apply psychological remedies to assess abnormal behaviour, to tackle the social issues and to rectify the problematic behaviour.</p>
11	DSE-1C (Psychological Testing) (Theory)	<p>CO1: Describe the concept of psychological test, reliability, validity and norms.</p> <p>CO2: Classify and categorize psychological tests, reliability- validity-norms types.</p> <p>CO3: Identify the reliability and validity of psychological tests,</p> <p>CO4: Evaluate the types of norms.</p> <p>CO5: Conduct testing project for behaviour analysis.</p>
12	DSE-2C (Psychological Tests) (Practical) (3)+(1) Statistics	<p>CO1: Describe mapping of human behaviour.</p> <p>CO2: Explain general ability testing, personality, adjustment and attitude.</p> <p>CO3: Identify and classify the intellectual ability and personality patterns.</p> <p>CO4: Conduct testing and evaluate intellectual ability, personality traits, adjustment and attitudes of participant.</p> <p>CO5: Analyze statistical methods employed in behaviour analysis.</p>
13	DSE-2D (Psychological Experiments) (Practical) (3)+(1) Statistics	<p>CO1: Describe mapping of human behaviour.</p> <p>CO2: Explain general ability testing, personality, adjustment and attitude.</p> <p>CO3: Identify and classify the intellectual ability and personality patterns.</p> <p>CO4: Conduct testing and evaluate intellectual ability, personality traits, adjustment and attitudes of participant.</p> <p>CO5: Analyze statistical methods employed in behaviour analysis.</p>

S. B. More

S. B. More
Principal

Kamveer Ganpat Dada More
Arts, Commerce & Science College
Niphad, Tal. Niphad Dist. Nashik



Maratha Vidya Prasarak Samaj's
Karmaveer Ganpat Dada More Arts, Commerce & Science College, Niphad
Dist. Nashik

Internal Quality Assurance Cell (IQAC) 2022-2023
Program Outcomes, Course specific Outcomes
Department of Geography

Program outcome: B.A./B.Sc./B.Com/ (Geography)	
1.	Study the types of land and processes
2.	Understand the structure, and composition of different spheres of the earth and its Atmosphere.
3.	Understand the importance of oceans, rivers and water and find the ways of their conservation
4.	Understand the Function and types of Biogeography.
5.	Understand the science of Remote Sensing Make use of GIS and GPS software
6	To understand the scope and content of commercial geography about the spatial distribution of resources.
7	To acquaint the students with the dynamic nature of commercial geography
7	To acquaint the students with the dynamic nature of Trade and Transport.
8	To make students aware of the relationships between geographical factors and economic activities

Program Specific Outcome: B.A./B.Sc (Geography)	
1.	Serve as a Geographer
2.	Work as a teacher in schools and high schools
3.	Serve as conservator in forest, Soil, Agri, Departments.
4.	Work in disaster and water resources management.
5.	Serve in forest department as forest conservator.
6.	Serve in cartographer in map making divisions of Government.
7.	Work in NGOs.
8.	Can Prepare for Competitive exams

Course outcomes BA: Geography

Class	Course	Outcome
FYBA Semester- 1	Physical Geography GG-110 (A)	<ul style="list-style-type: none"> • Students are aware of the nature and scope of physical geography. • Students have understood the earth's interior. • Students gain knowledge about the earth system. • Acquired the knowledge of structure of the atmosphere and the heat balance of the earth. • Students aware of forms and types of precipitation • Students learnt about the hydrological cycle and general structure of ocean floor. • Students acquired the skills of identify the landscapes that are located nearby their place

FYBA Semester-II	Human Geography GG-110 (B)	<ul style="list-style-type: none"> • Students have understood the basic information about Human Geography. It includes nature, scope and branches of Human Geography. • Students gained information about various characteristics of Indian population. • Students understood the theory of demographic transition. • Students gained knowledge about types and pattern of rural settlements. • Students understood the trends and patterns of Maharashtra's urbanization. • Students understood the various factors affecting on agriculture and problems related to agriculture.
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Course outcomes B.Com: Geography

Class	Course	Outcome
FYB.Com Semester-I	– Elements of Commercial Geography - I	<ul style="list-style-type: none"> • To make students of the Commerce faculty aware of the correlations between Economic activities and Geographical factors. • 2. To acquaint the students with various economic activities in Geographical Environment. • 3. To acquaint the students with the dynamic aspects of resources and need for their conservation. • 4. To make the students aware about the role and dynamics of population in Commerce
FY B.Com Semester-II	Elements of Commercial Geography – II)	<ul style="list-style-type: none"> • To make students of the Commerce faculty aware of the correlations between Economic activities and Geographical factors. • 2. To acquaint the students with the Industrial sector and the pollution associated with it. • 3. To make the students aware of the changing role of transport and communication in Trade and Commerce. • 4. To make the students aware of the role of tourism in development. • 5. To acquaint students with basic cartographic techniques.

Course outcomes FYBSc : Geography

Class	Course title	Outcome
FYBSC Semester-1	Introduction to Physical Geography-I (Geomorphology)	<ul style="list-style-type: none"> • The students understood the basic concepts in Geomorphology. • The students learnt about the earth systems and its dynamics. • The students acquainted with the utility and applications of Geomorphology in different areas and environment. • The students get aware about the need of protection and conservation of different landforms.
FYBSC	Introducti	<ul style="list-style-type: none"> • Acquired the knowledge of structure of atmosphere and

Semester- I	on to Physical Geograph y II	<p>heat balance of the earth.</p> <ul style="list-style-type: none"> • Students aware about forms and types of precipitation • Students learnt about hydrological cycle and general structure of ocean floor.
FYBSC Semester- II	Introducti on to Human Geograph y	<ul style="list-style-type: none"> • Students understood the basic concepts in Human Geography which includes nature, scope and branches of Human Geography. • The students learnt about the human evolution and races. • Students gained information about various characteristics of world and Indian population. • Students understood the theory of demographic transition. • Students understood complex relationships between man and environment.
FYBSC Semester- II	Populatio n and Settlemen t Geograph y	<ul style="list-style-type: none"> • Students gained knowledge about types and pattern of rural settlements. • The students learnt about the Population Dynamics. • Students understood the trends and patterns of urbanization in the world and in India. • Students gained knowledge about the problems and prospects of human population.

Class	Course title	Outcome
SYBA Semester- III	Gg: 210(A) Environmental Geography I	<ul style="list-style-type: none"> • To create the awareness about dynamic environment among the student. • To acquaint the students with fundamental concepts of environment geography for development in different areas. • The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography. • To make aware the students about the problems of environment, their utilization and conservation in the view of sustainable development.
SYBA Semester- III	Subject Code: Gg.220 (A) Geography of Maharashtra	<ul style="list-style-type: none"> • To acquaint students with Geography of our State. • To make students aware of the magnitude of problems and prospects in Maharashtra. • To help students understand the inter relationship between the subject and the society. • To help students understand the recent trends in regional studies.
SYBA Semester- III	Subject Code: Gg. 201 (A) Scale and Map Projection	<ul style="list-style-type: none"> • To introduce the basic concepts in Practical Geography • To enable students to use various Scales and Projection Techniques in Geography. • To acquaint students with the utility of various Projections in Geographical knowledge. • To explain the elementary and essential principles of practical work in Geography.

		<ul style="list-style-type: none"> • Develop practical skill and use of map scale and projection. • To make students aware of the new techniques, accuracy and skills of map making.
SYBA Semester-III	Subject Code: SEC – A Introduction to Geographic Information System	<ul style="list-style-type: none"> • To introduce the students about the basic concepts of GIS. • To acquaint the students with the utility and applications of GIS Technique. • To create the awareness about Geospatial technology among the students. • To inculcate skill of map making among the students by using GIS Technique.
SYBA Semester-IV	Subject Code: Gg.210 (B) Environment Geography- II	<ul style="list-style-type: none"> • To create awareness about dynamic environment among the students. • To acquaint students with the fundamental concepts of Environment Geography. • To acquaint students about the past, presents and future utility and potentials of natural resources. • To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.
SYBA Semester-IV	Subject Code: Gg.220 Geography of Maharashtra	<ul style="list-style-type: none"> • To make students aware about the Agriculture problems and prospects of Maharashtra. • To understand the population distribution and settlement pattern in Maharashtra. • To understand the concept of rural development. • To understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial development in rural area of Maharashtra
SYBA Semester-IV	subject Code: Gg. 201 (B) Cartographic Techniques, Surveying and Excursion / Village / Project Report	<ul style="list-style-type: none"> • To introduce the students to the basic and contemporary concepts in Cartography. • To acquaint the students with the utility and applications of various Cartographic Techniques. • To introduce the latest concepts regarding the modern cartography in the field of Geography. • To explain the elementary and essential principles of practical work in Geography. • Develop practical knowledge and application of cartographical techniques. • To make students aware of the new techniques, accuracy and skills of Map Making.
SYBA Semester-IV	Subject Code: SEC-B Introduction to Remote Sensing	<ul style="list-style-type: none"> • To introduce the students about the basic concepts of Remote Sensing. • To acquaint the students with the utility of RS and its applications. • To inculcate the skill of satellite image interpretation among the students.
TYBA	GG310- Regional geography of India	<ul style="list-style-type: none"> • Understand the about the physiographic division of India. • Understand the India Drainage system of India Rivers • Understand the climatic variation in India and climatic region of India. • Examine and understand the types of vegetation of India.

		<ul style="list-style-type: none"> • Understand the variation in industrial development in India. • Examine and understand the developed and underdeveloped states in India.
TYBA	GG320- Agricultural Geography	<ul style="list-style-type: none"> • Understand approaches of agricultural geography and its examples • Know the silent feature, problems and prospects of Agriculture. • Study about types of agriculture and its subtypes. • Understand methods of irrigation and modes of same. • Know the Importance of water Resources. • Study about water harvesting concept and methods. • Study allied areas in agriculture and agriculture development with examples. • Study the Problems and Prospect of Agriculture with reference to India • Understand sustainable agricultural development and initiatives.
TYBA	GG 301 Techniques of spatial analysis	<ul style="list-style-type: none"> • know about Toposheets and its types • Understand the mechanism function of • Topographical maps. • Understand interpretation if weather images. • Understand the History of Remote Sensing • Know Arial Photographs and Satellite Imageries • Understand method of representation of relief. • Introduce the student of top sheet, weather map. • Understand the basic concept of RS GIS& GPS. • Mapping and interpretation of Arial Photograph.

Lawrence
Co-ordinator

Internal Quality Assurance Cell
K.G.D.M. Arts, Commerce & Science College
Niphad, Dist. Nashik



[Signature]
Principal

Karmveer Ganpat Dada More
Arts, Commerce & Science College
Niphad, Dist. Nashik



M.V.P SAMAJ'S

**K.G.D.M ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD
PROGRAMME OUTCOMES-2022-23**

Course outcomes for three years Bachelor of Arts Degree course

Economics		
Sr. No.	Course	Outcomes
1	B.A. Economics	<ol style="list-style-type: none">1) Ability to compare and contrast Indian Economy with other world economies.2) Understand the how the economy's total output of goods and services and employment of resources is determined and what causes these totals to fluctuate.3) To make an Undergraduate student aware of the basic theoretical framework underlying the field of Economics.4) The students would also be well trained about the rationale of recent changes in the Export Import policies of India.
2	F.Y.B.A. Economics G-1, Indian Economic Environment (I & II) (CBCS Pattern) From: June-2019	<ol style="list-style-type: none">1) Ability to develop an understanding of the economic environment and the factors affecting economic environment.2) Ability to develop awareness on the various new developments in the different sectors of an economy – agriculture, industry, services, banking, etc.3) Ability to compare and contrast Indian Economy with other world economies.4) At the end of the course, the student should be able discuss and debate on the various issues and challenges facing the Indian Economic Environment
3	S.Y.B.A. Economics G-2, Financial System (I & II) From : June – 2020 (CBCS Pattern)	<ol style="list-style-type: none">1) The students understand fundamentals of modern financial system.2) The students understand the recent trends and developments in banking system.3) It understands the role of the Reserve Bank of India in Indian financial system.4) The students gain the knowledge of various financial and non financial institutions.5) The students gain the knowledge about intricacies of Indian financial system for better financial decision making.
4	S.Y.B.A. Economics S- 1, Micro Economics (I & II) From: June –2020 (CBCS Pattern)	<ol style="list-style-type: none">1) The students develop an understanding about subject matter of Economics.2) The students impart knowledge of micro economics.3) The students clearly clarify micro economic concepts.4) The students learned analyze and interpret charts, graphs and figures.

5	S.Y.B.A. Economics S- 2, Macro Economics (I & II) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) The students learn to the historical background of the emergence of macro economics. 2) The students familiarize with the differences between micro economics and macro economics. 3) The students familiarize with various concept of National Income. 4) The students familiarize with Keynesian macroeconomic theoretical framework of consumption and investment function. 5) The students know to the role of money an economy.
6	S.Y.B.A. Economics SEC- Basic concept of Research methodology (I & II) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) Demonstrate students understanding of sampling methods and the ability to use collection data. 2) Identify the appropriate sample techniques for different kinds of research questions. 3) Identify the appropriate source of data in relation to the collection of research data. 4) Able to classify and present to collected data in the form of graph, bar diagram, chart ect.
7	T.Y.B.A. Economics G-3, Indian Economic Development (I & II) From : June – 2021 (CBCS Pattern)	<ol style="list-style-type: none"> 1) To relate and recognize the concept and indicators of Economic Development. 2) To describe and analyze the concept and indicators of Human Development. 3) To explain the characteristics of Developing and Developed Countries. 4) To describe the constraints to the process of Economic Development 5) To describe and explain the process of Economic Planning. 6) To describe and examine the changing structure of planning process in India. 7) To describe and explain the relation between Economic Development and Environment.
8	T.Y.B.A. Economics G-3, Indian Economic Development (I & II) From : June – 2021 (CBCS Pattern)	<ol style="list-style-type: none"> 8) To relate and recognize the concept and indicators of Economic Development. 9) To describe and analyze the concept and indicators of Human Development. 10) To explain the characteristics of Developing and Developed Countries. 11) To describe the constraints to the process of Economic Development 12) To describe and explain the process of Economic Planning. 13) To describe and examine the changing structure of planning process in India. 14) To describe and explain the relation between Economic Development and Environment.
9	T.Y.B.A. Economics S- 4, Public Finance (I & II) From: June-2021 (CBCS Pattern)	<ol style="list-style-type: none"> 1) To relate and recognize the Nature and Scope of Public Finance. 2) To describe and analyze the concept of Public Revenue and its components. 3) To explain types of Public Expenditure and reasons for rising Public Expenditure. 4) To explain the types of Public Debt and its effects. 5) To explain and assess the components and instruments of Fiscal Policy.

		6) To relate to the concepts of Budget and its components. 7) To describe and analyze the concept of Deficit Financing and its effects. 8) To describe and explain the Centre and State Financial Relationship.
10	T.Y.B.A. Economics SEC- Business Management (I & II) From: June-2021 (CBCS Pattern)	1) Management of Business. 2) Business planning and decision making. 3) Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities. 4) Analytical Skills – Ability to analyze data collected and interprets in the most logical manner. 5) Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings. 6) Presentation Skills – PPT/Poster- Ability to illustrate findings in the most appealing manner. 7) Leadership Skills: Ability to show leadership skills with business ideas or work on business ventures as a practical example.


 Prof. A.L. Gaikwad
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M.V.P SAMAJ'S

**K.G.D.M ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD
PROGRAMME OUTCOMES-2022-23**

Program & Course outcomes for two years M.A (Economics) Degree

<u>M.A –II Economics-June-2020</u>		
Sr. No	Course	Outcome
1	M.A(Economics) From: June-2020 (CBCS Pattern)	1) The student should be able to evaluate Economic concepts, models and its use in real life situations. 2) Ability to discuss and debate the effects of trade policy, trade agreements, exchange rate policies on the world economy/trade. 3) The student should be able to evaluate Economic concepts, models and its use in real life situations. 4) Students who complete their post graduation in economics are mentally equipped to pursue research in the same discipline.
2	EC-3001 Macro Economics-I (SEM- III) From: June-2020 (CBCS Pattern)	1) Ability to analyze and demonstrate knowledge of the basic theories/laws in macroeconomics. 2) At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations.
3	EC-3002 Growth and Development – I (SEM- III) From: June-2020 (CBCS Pattern)	1) Ability to apply the concepts of economic growth and compare international comparison of economic development, etc. 2) Ability to analyze and demonstrate knowledge of the economic growth and development theories of economic growth and development.
4	EC-3003 Research Methodology-I (SEM- III) From: June-2020 (CBCS Pattern)	1) Ability to develop, demonstrate and examine topics under Economics to pursue research. 2) Ability to evaluate and examine subject areas in economics and explore possibilities of research.
5	EC- 3004 Demography (SEM- III) From: June-2020 (CBCS Pattern)	1) Ability to develop, demonstrate and examine various topics under Demography. 2) Ability to evaluate and examine subject areas in economics bringing out the relation to population studies and demography.

6	EC – 4001 Macro Economics II (SEM- IV) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) Ability to analyze and demonstrate knowledge of the basic theories/laws in economics- general equilibrium psychological law of consumption, etc. 2) At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations.
7	EC-4002 Growth and Development –II (SEM- IV) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) Ability to analyze and demonstrate knowledge of the economic growth and development theories of economic growth and development. 2) Ability analyze, evaluate and apply the growth and development concepts, role of human capital, etc. in real life situations.
8	EC-4003 Research Project (SEM- IV) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) 1) Ability to develop, demonstrate and examine topics under Economics to pursue research. 2) Ability to evaluate and examine subject areas in economics and explore possibilities of research. 3) Elementary knowledge of research methodology shall consolidate and deepen their understanding of various branches of Economics.
9	EC-4004 Public Policy (SEM- IV) From: June-2020 (CBCS Pattern)	<ol style="list-style-type: none"> 1) Ability to analyze and evaluate the subject with reference to various aspects of Public Policy. 2) Ability to develop an understanding of the public policy, its perspectives and processes and to be able to construct intellectual dialogue on the policy making and policy analysis and evaluation.



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M.V.P SAMAJ'S

K.G.D.M ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD

PROGRAMME OUTCOMES

Department of Political Science



B.A. Political Science

Programme Outcomes

1. This program focuses in detail on the political processes and the actual functioning of the political system .It simultaneously studies in detail the political structure both Constitutional and Administrative
 2. This program focuses on key thinkers from ancient to modern times to understand their seminal contribution to the evolution of Political theorizing in India
 - 3.This program studies the classical tradition in political theory from Plato to Marx with the view to understand how the great Masters explained and analyzed political events and problems of their time and prescribed solutions.
- This program studies the role of different political ideologies and their impact in politics.
- 5.To introduce the students to the structure of Local Self Government of Maharashtra.
 - 6.This program deals with concepts and dimensions of international relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms.

Sr. No.	Course	Outcomes
1	F.Y.B.A. Political science G-1 General Paper- Introduction To Indian Constitution (2019-20 CBCS Pattern)	<ol style="list-style-type: none">1. To acquaint students with the important features of the Constitution of India andwith The basic framework of Indian government.2. To familiarize students with the working of the Constitution of India
2	S.Y.B.A Political Science G-2 General Paper Political Theory& Concepts	<ol style="list-style-type: none">1. This is an introductory paper to the concepts, ideas and theories in political theory.2. It seeks to explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically.3. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the differences in their perspectives and in order to understand their continuity and change. Furthermore there is a need to emphasize the continuing relevance of these concepts today and explain how an idea and theory of yester years gains prominence in contemporary political theory.



3	S.Y.B.A Political Science Special Paper-I Western Political Thought	<ol style="list-style-type: none">1. This paper studies the classical tradition in political theory from Plato to Marx with the view to understand how the great Masters explained and analyzed political events and problems of their time and prescribed solutions.2. The texts are to be interpreted both in the historical and philosophical perspectives to understand the universality of the enterprise of political theorizing.3. The limitations of the classical tradition, namely its neglect of women's concerns and issues and the non-European world are critically examined.4. The legacy of the thinkers is explained with the view to establish the continuity and change within the Western political tradition.
4	TYBA Political Science (G-3) Political Ideologies	<ol style="list-style-type: none">1. This paper studies the role of different political ideologies and their impact in politics. Each ideology is critically studied in its historical context.2. In course of its evolution and development, the different streams and subtle nuances within each ideology, the changes and continuities in its doctrine and its relevance to contemporary times are highlighted.3. The close link between an idea and its actual realization in public policy needs to be explained as well. The philosophical basis of the ideologies is emphasized with special emphasis on key thinkers and their theoretical formulations. The legacy of all the major ideologies is to be critically assessed.
5	TYBA Political Science (S-3) Public Administration	<ol style="list-style-type: none">1. This paper is an introductory course in Public Administration.2. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living.3. The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change.4. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy.5. The importance of legislative and judicial control over administration is also highlighted.
6	TYBA Political Science (S-4) International Politics	<ol style="list-style-type: none">1. This paper deals with concepts and dimensions of international relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms.2. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a world are included.3. It highlights various aspects of conflict and conflict resolution, collective security and in the specificity of the long period of the post Second World War phase of the Cold War, of Détente and Deterrence leading to theories of rough parity in armaments.

[Signature]
Prof. of Political Sci.

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K. G. D.M Arts , Commerce and Science College, Niphad
Tal. Niphad, Dist. Nashik
Department of Commerce
B. Com. Outcomes

PROGRAM SPECIFIC OUTCOMES UG	
Programme B. Com.	PO1 - To develop numerical abilities of students
	PO2 -To develop language abilities of students
	PO3 -To inculcate writing skills and Business correspondence.
	PO4 -To create awareness of Law and Legislations related to commerce and business.
	PO5 -To introduce recent Trends in Business, Organizations and Industries.
	PO6 -To inform about Economic Environment of Country as well as World
	PO7 -To acquire practical skills related with banking and other business.
	PO8 -To provide a platform for overall development of students and develop knowledge level and awareness of students about Recent Trends of World

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Dist. Nashik

Department of Commerce

Class: T. Y. B. Com.

Programme Specific Outcomes UG

Sr. No.	Course (SUBJECT)	Course of outcomes
1	Business Regulatory Framework	<p>CO1 Understand the legal rules regarding contract.</p> <p>CO2 Knowledge on rules necessary for legal enforcement.</p> <p>CO3 Awareness of rules regarding signing of the contract.</p> <p>CO4 Describe about different kinds of performances of the contract.</p> <p>CO5 Identification of rules and regulations of sale of goods act</p>
2	Auditing & Taxation	<p>CO1 Described about the concept of auditing, types and methods of auditing.</p> <p>CO2 Acquired knowledge about vouching of cash & credit transaction, verification of assets & liabilities.</p> <p>CO3 Described about preparation of different methods & auditors responsibility Regarding depreciation & reserves.</p> <p>CO4 Comprehend the knowledge about appointment of different types of auditor, Their rights and duties.</p> <p>CO5 Acquired knowledge about audit in EDP environment.</p> <p>CO6 Impart knowledge on the provisions of Income tax law and practice and make students compute the assessment practices under the various heads of income.</p> <p>CO7 Acquire knowledge about taxation, Rates of tax & Residential status.</p> <p>CO8 Described about the provisions of salary income, House property & business or profession and their computation.</p> <p>CO9 Enhance assessment of Individuals filing of returns and PAN.</p> <p>CO10 Understand the concept of deductions under the section 80C</p>
3	Advanced Accounting	<p>CO1 Described about preparation of branch accounts, inter branch and head office Accounts</p> <p>CO2 Acquired knowledge on preparation of departmental accounts with respect to Apportionment of overheads.</p> <p>CO3 Calculation of interest on hire purchase and instalment system.</p>

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Class: S. Y. B. Com.

Programme Specific Outcomes UG

Sr. No.	Course (SUBJECT)	Course of outcomes
1	Business communication	CO1 Described about principles of effective communication.
		CO2 Classifying the different kinds of business letters and its purpose.
		CO3 Acquired knowledge about requirement of different types of correspondence and How to write the same.
		CO4 Analyses and preparation of reports & minutes of meeting.
		CO5 Described different forms of communication, its importance & need Fax, E-mail Etc.
2	Business Management	CO1 Described about different management theories Taylor & Fayol.
		CO2 Acquired knowledge on scientific management F.W.Taylor.
		CO3 Understands about PODSCORB.
		CO4 Described about different concept like staffing, departmentation & delegation.
		CO5 Understands about co-ordination & controlling
3	Corporate Accounting	CO1 Acquired knowledge on issue of shares.
		CO2 Understand the knowledge on issue of debentures.
		CO3 Describe the calculation of profits prior to incorporation and company final Accounts.

		<p>CO4 Described about new profit sharing ratio and calculation of profit during admission of a new partner and retirement of partner.</p> <p>CO5 Computing the accounting treatment during death of a partner and dissolution of a partner</p>
4	Marketing Management-II	<p>CO1 Understand the concept of marketing and various types of market.</p> <p>CO2 Knowledge on segmentation of market and Consumer behaviour.</p> <p>CO3 Analyses of marketing mix and pricing strategies.</p>
4	Marketing Management-II	<p>CO4 Classification of channels of distribution and promotional activities.</p> <p>CO5 Awareness on recent trends used by the marketers and Consumer Protection act.</p>
5	Marketing Management-III	<p>CO1 Understand the concept of marketing and various types of market.</p> <p>CO2 Knowledge on segmentation of market and Consumer behaviour.</p> <p>CO3 Analyses of marketing mix and pricing strategies.</p> <p>CO4 Classification of channels of distribution and promotional activities.</p> <p>CO5 Awareness on recent trends used by the marketers and Consumer Protection act.</p>

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Department of Commerce
Class: F. Y. B. Com.

Programme Specific Outcomes UG


Sr. No.	Course (SUBJECT)	Course of outcomes
1	Financial Accounting	<p>CO1 Described various accounting concepts and double entry system of book keeping.</p> <p>CO2 Understands on how to deal with adjustments in Final accounts and also about Preparation of accounting books for Non-Profit Organization.</p> <p>CO3 Acquired knowledge on various types of errors and on how to rectify those errors.</p> <p>CO4 Describe about preparation of Bank Reconciliation statement.</p> <p>CO5 Calculation of Depreciation under Straight line and Write down value method.</p> <p>CO6 Determination of insurance claim on fire accident.</p> <p>CO7 Determination of profit / loss under Statement of affairs and Conversion method For the concerns having singly entry system of book keeping.</p>
2	Business Mathematics and Statistics	<p>CO1To familiarizes the concept of statistics</p> <p>CO2 To provide practical exposure on calculation of measures of average</p> <p>CO3 To provide practical exposure on calculation of measures of correlation and irrigation</p> <p>CO4 To introduce the students about the concept of provability</p> <p>CO5 To provide practical exposure on calculation of trend analysis.</p>
3	Marketing and Salesmanship	<p>CO1 Understand the concept of marketing and various types of market.</p> <p>CO2 Knowledge on segmentation of market and Consumer behaviour.</p> <p>CO3 Analyses of marketing mix and pricing strategies.</p> <p>CO4 Classification of channels of distribution and promotional activities.</p> <p>CO5 Awareness on recent trends used by the marketers and Consumer Protection act.</p>
4	Organisational Skill Development	<p>CO1.Develop knowledge, skills, attitudes, and values necessary for success in management and Leadership positions in a variety of business, governmental education, and non-profit settings.</p>

		CO4 Understand the accounting treatment for valuation of goodwill & shares.
		CO5 Analyse the alterations of share capital.
4	Elemenmts of Company Law	CO1 Classification of different types of Joint Stock Companies.
		CO2 Understanding memorandum of association, Articles of association and Prospectus.
		CO3 Knowledge on share capital, borrowing powers of companies.
		CO4 Awareness about meeting and resolutions passed.
		CO5 Understand winding up of the company.
5	Marketing Management-I	CO1 Understand the concept of marketing and various types of market.
		CO2 Knowledge on segmentation of market and Consumer behaviour.
		CO3 Analyses of marketing mix and pricing strategies.
		CO4 Classification of channels of distribution and promotional activities.
		CO5 Awareness on recent trends used by the marketers and Consumer Protection act.

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 Niphad, Dist. Nashik
Department of Commerce
Class: M. Com. Part-I, Sem. I & Sem. II
Programme Specific Outcomes PG

Sr. No.	Course (SUBJECT)	Course of outcomes
1	Strategic Management	The students learn to use strategies and skills in management of time and organisation
2	Management Accounting	It helps the students to compare the financial statements and financial analysis. § Business Environment. This paper helps the students
3	Production and Operations Management	It makes the students to understand different principles of management and various skills to practice in management
4	Financial Management	The students acquire the knowledge to manage the finance and financial requirements in business.
5	Financial Analysis & Control	Use Financial Statements to evaluate firm performance.
		Project Financial Statements (B/S, I/S, budgets, etc.). .
		Use Financial Statements to obtain Cash Flows for the firm and equity holders
		Calculate and project Free Cash Flow.
		Determine financial drivers of Free Cash Flow.
		Calculate the cost of debt, cost of equity and the Cost of Capital.
6	Industrial economics	Students able to manipulate these models and be able to solve analytically problems relating to industrial economics
7	Business Ethics and Professional Values	Higher Performance and Efficiency People feel their input is aligned with their compensation
		Commitment: Happy employees tend to stick around.
		Citizenship: If there is inequity in how people are treated, it tends to divide them. This is incredibly dangerous, and can quickly erode the positive benefits of looking out for one another.

	CO2. Demonstrate advanced professional and educational capabilities using appropriate
	interpersonal, written communication and critical thinking skills that are required for successful
	CO3. performance and progress in an organization.
	Acquire knowledge through the application of principles of sound research designs to critical
	CO4. evaluation of academic literature related to organizational management.
	CO5. Exhibit leadership with the ability to be a change agent within an organization and the business Community.
	CO6. Integrate appropriate technology into the leadership and management and decision making
	Process.
	CO7. Demonstrate personal and professional ethical responsibility in all managerial and organizational decision making.



Head
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 K.G.D.M. Arts, Commerce &
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Niphad, Dist. Nashik

Department of Commerce

Class: M. Com. Part-II, Sem. III & Sem. IV

Programme Specific Outcomes PG

Sr. No.	Course (SUBJECT)	Course of outcomes
1	Organisational Behaviour	The students understand the organizational etiquettes, group behaviour, leadership qualities and analysing the attitude of the employee.
		To equip the students with the basic idea and introduction on organizational behavior as a concept CO – II To give a light on the concept and difference theories on motivation CO – III Explain and helps the students to gain more knowledge on Group Behavior
2	Human Resource Management	This paper helps the students various aspects of Human Resource development, managing human resources and develop skills in HR
		To aiming to enable the students in Human Resources Management II. To introduce the students about placement and training III. To facilitate the knowledge about performance appraisal and different methods
3	Research Methodology for Business	This paper helps the students to understand the research techniques, sampling etc. in business research.
4	Business Finance	Aiming to enable the students to get the Know-how of corporate finance in its wide aspects
		CO –II To create an interest in investment habit keeping its wide scope
		To introduce the concept of Capital Market CO –V In order to equip the students with details about foreign collaboration and
		CO –IV To familiarize the concept of lease financing venture Capital and Mutual Fund
		Through this paper the students learn about various financial institutions like Stock Exchange, Mutual Funds etc.

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Tal. Niphad, Dist. Nashik

Department of Commerce

M. Com. Outcomes

PROGRAM SPECIFIC OUTCOMES PG	
Programme M. Com.	PO 1 Enriched knowledge with new ideas and techniques essential for business and management
	PO 2 Mastery over specific skills in business.
	PO 3 Capability to acquire and handle any position in business.
	PO 4 Develop analytical interpretative and presentation skill regarding research in
	PO 5 Acquaintance with recent trends in commerce and management.

5	Capital Market & Financial Service	To provide introduction to Financial Management
		To create an awareness about capital structure and theories of capital structure
		To make them understand the cost of capital in wide aspects IV. To provide knowledge about dividend policies and various dividend models
6	Project	The students take up the project on organization and management of industries by visiting industries. By the project work the students get good practical knowledge
		To understand the basics about project management and its various types
7	Industrial Economics Environment	By studying this paper the students can understand basic models of the behaviour of firms and industrial organization and how they can be applied to policy issues. They are able to manipulate these models and be able to solve analytically problems relating to industrial economics
8	Recent Advances In Business Administration	Students will learn to effectively communicate in the context of business
		Students will learn to collaborate in a business environment
		Students will learn to use data to engage in effective decision-making in a business
		Students will learn to act ethically in businesses
		Students will demonstrate a mastery of the core functional areas of business including accounting, economics/finance, marketing, management, planning & strategy.

		<p>Avoiding Counterproductive Behavior – In short, dissatisfied employees are more prone to working against the established goals of the organization. Behaviors such as not doing certain tasks or helping certain work-groups can quickly become a source of inefficiency.</p> <p>Absenteeism – Sick days, skipping meetings, and generally unplugging from the organization is often an outcome of inequitable organizations.</p> <p>Emotional Exhaustion – Unsatisfied employees wrestle with insecurity and dissatisfaction, both of which are emotionally draining.</p>
8	Elements of Knowledge Management	<p>Increased collaboration within an organization, its stakeholders and project partners stakeholders</p> <p>Faster responses to the organization's external environment</p> <p>Better coordination of development projects under the organization's r</p> <p>Improving information sharing between staff and with</p>



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M.V.P SAMAJ'S

K.G.D.M ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD

PROGRAMME OUTCOMES

Course outcomes for three years Bachelor of Science Degree course

B.Sc Chemistry

Program outcomes :

1. To understand basic concept of physical, organic and Inorganic chemistry.
2. To impart practical skills and learn basics behind experiments.
3. To prepare background for advanced and applied studies in chemistry.

Course Specific Outcomes

Sr. No	Class	Course	Course Outcomes
1	T.Y.B.Sc.	CH- 501: Physical Chemistry	After completing the course work learner will be acquired with knowledge of Quantum chemistry, Investigation of molecular Structure, Photochemistry.
		CH- 502: Analytical Chemistry	After completion of the course student should be able to basic terms in gravimetry, spectrophotometry, qualitative analysis and parameters in instrumental analysis, Identify important parameters in analytical processes or estimations.
		CH-504: Inorganic Chemistry	Students will learn electroneutrality principle and different types of pi bonding ,learn about inert and labile complexes and stability of complexes in aqueous solutions ,chemistry of transition element, F-Block element, Metals, semiconductor and superconductor.
		CH- 505: Industrial Chemistry	Students will learn Importance of chemical industry, Knowledge of various industrial aspects, Importance of sugar industry, Chemistry of soap, Dyes and pigment.
		CH-507: Organic Chemistry	After studying the polynuclear and heteronuclear aromatic compounds, students will able to 1. Define and classify polynuclear and hetreonuclear aromatic hydrocarbons. 2. Write the structure, synthesis of polynuclear and hetreonuclear aromatic hydrocarbons. 3. Understand the reactions and mechanisms Students should be able to understand 1. Meaning of active methylene group 2. Reactivity of methylene group, 3. Synthetic applications ethyl acetoacetate and malonic ester Molecular Rearrangements Students will study 1. What is rearrangement reaction? 2. Different types of intermediate in rearrangement reactions? Students should be familiar with 1. 1,1 and 1,2 elimination 2. E1, E2 and E1cB mechanism with evidences of these reactions.
		CH-508: Chemistry of Biomolecules	The student will understanding of Cell types, Difference between a bacterial cell, Plant cell and animal cell The student will understand the types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates and reactions of carbohydrates with Glucose as example. Properties of carbohydrates. The student needs to know the types of lipids with examples,

			<p>structure of lipids, properties of lipids</p> <p>The student will understand the structure and types of amino acids. Reactions of amino acids. Properties of amino acids. Peptide bond formation. student know the classes of enzymes with subclasses and examples</p>
		CH-510: Medicinal Chemistry	<p>Upon completion of the course the student shall be able to understand,</p> <ol style="list-style-type: none"> 1. The basics of medicinal chemistry, biophysical properties, overview of basic concepts of traditional systems of medicine. 2. Over view of the overall process of drug discovery, and the role played by medicinal chemistry in this process. 3. Biological activity parameters and importance of stereochemistry of drugs and receptors. 4. Knowledge of mechanism of action of drugs belonging to the classes of infectious and non-infectious diseases. 5. Enhancement of practical skills in synthesis, purification and analysis.
		CH-511: Environmental Chemistry	<p>Upon completion of the course the student shall be able to understand</p> <p>Importance and conservation of environment, Water resources, Hydrological Cycle , Organic and inorganic pollutants ,Water quality parameters</p>
		Lab Course CH 503 , CH- 506 and CH- 509	<ol style="list-style-type: none"> 1. The practical course is in relevance to the theory courses to improve the Understanding of the concepts. 2. It would help in development of practical skills of the students. 3. Use of microscale techniques wherever required
T.Y.B.Sc. SemVI			
2		CH-601: Physical Chemistry-II	<p>After completing the course work learner will be acquired with knowledge of Daniell cell, Conventions to represent electrochemical cells Thermodynamic conditions of reversible cell, 3. EMF of electrochemical cell and its measurement Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids.</p> <p>term crystallography and laws of crystallography. Weiss and Millers Indices, determination of Miller Indices Bravais lattices, space groups, seven crystal systems and fourteen Bravais lattices; Cubic lattice and types of cubic lattice Distance between the planes for 100, 110 and 111 for cubic lattice ,</p> <p>Radioactivity , Types and properties of radiations: alpha, beta and gamma Detection and Measurement of Radioactivity: Cloud chamber, Ionization Chamber, Geiger-Muller Counter, Scintillation Counter, Film Badges ,Types of radioactive decay: α- Decay, β-Decay and γ-Decay ,The Group Displacement Law, Radioactive Disintegration Series , Kinetics of Radioactive Decay, Half-life, average life and units of radioactivity ,Energy released in nuclear reaction: Einstein's equation, Mass Defect, Nuclear Binding Energy .</p>
		CH-602: Physical Chemistry-III	<p>Will learn Meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties, Lowering of vapour pressure of solvent in solution, Elevation of B.P. of solvent in solution, Landsberger's method, Factors affecting on solid state reactions, Rate laws for reactions in solid state, Cohesive Energy of ionic crystals based on coulomb's law and Born</p>

			Haber Cycle , Correspondence between energy levels in the atom and energy bands in solid , Band structure in solids – Na , Ca and diamond. Classification of polymers ,Chemical bonding & Molecular forces in Polymer , Molecular weight of polymers .
		CH-604 Inorganic Chemistry-II	After completing the course work learner will be acquired with knowledge multiple bonding due to CO ligand.,methods of synthesis of binary metal carbonyls, phenomenon of catalysis, its basic principles and terminologies, biological role of inorganic ions & compounds, types of Inorganic polymers, Preparation of inorganic solids by various methods .
		CH-605: Inorganic Chemistry-III	After completing the course work learner will be acquired with knowledge concept of acid base and their theories, crystal structures of solids, Zeolite Framework Types and their classification. Various methods of nanoparticle synthesis, toxic chemical in the environment.
		CH-607: Organic Chemistry -II	Students will learn the interaction of radiations with matter, use of models to draw different types of disubstituted cyclohexanes in chair form,
		CH-608: Organic Chemistry -III	The student will understanding the concept of Retrosynthetic Analysis and its Applications . Organic Reaction Mechanism and Synthetic Applications and the common name reactions . The student will understand the role of Reagents in Organic Synthesis. The student needs to know the natural products like Terpenoids and alkaloids.
		CH-610: Chemistry of soil and Agrochemical	After studying this course, student is expected to 1) Understood various components of soil and soil properties and their impact on plant growth. 2) Understood the classification of the soil. 3) Explores the problems and potentials of soil and decide the most appropriate treatment for land use. 4) Understood the Reclamation and management of soil physical and chemical constraints.
		Ch-611(A): Analytical Chemistry-II	After completion of the course student should able to 1. Define basic terms in solvent extraction, basics of chromatography, HPLC, GC, and AAS and AES. Some important terms are: solvent extraction, aqueous and organic phase, distribution ratio and coefficient, solute remain unextracted, percent extraction, ion association complex, theoretical plate, HETP, retention time, selectivity Identify important parameters in analytical processes or estimations. Example: minimum analyte concentration in particular method, reagent concentration for particular analysis.

Programme Outcomes: B. Sc Microbiology

Department of Microbiology	After successful completion of three year degree program in Microbiology a student should be able to;
Programme Outcomes	<ul style="list-style-type: none"> • To enrich students' knowledge and train them in the pure microbial sciences • To introduce the concepts of application and research in Microbiology • To inculcate sense of scientific responsibilities and social and environment awareness • To help students build-up a progressive and successful career
F.Y.B.Sc Microbiology Sem-I	
Course Title	Outcomes
MB 111: Introduction to Microbial World	<ul style="list-style-type: none"> • Understand history of microbiology • Acquire knowledge of different Eras of Microbiology and become acquainted with Nobel laureates in Life Sciences of 21st Century • Gain knowledge about different types of Microorganism with their differentiating characters • Understand beneficial and harmful effects of microorganisms in different fields of Microbiology
MB 112: Basic Techniques in Microbiology	<ul style="list-style-type: none"> • Get knowledge of Modern SI units • Understand Principles and Working of different types of Microscopes • Gain knowledge of different types of staining techniques and role of fixatives, mordants, decolourisers and accentuators in staining • Understand the concept of sterilization and disinfection
F.Y.B.Sc Microbiology Sem-II	
MB 121: Bacterial Cell and Biochemistry	<ul style="list-style-type: none"> • Understand structure, chemical composition and functions of the components in bacterial cell • Comprehend chemical basis of Microbiology • Learn structure, organization and functions of carbohydrates, lipids, proteins & nucleic acids • Be familiar with classification of bacteria (Bergey's Manual and Systemic Bacteriology) and Viruses (ICTV Nomenclature)

<p>MB 122: Microbial Cultivation and Growth</p>	<ul style="list-style-type: none"> • Gain knowledge of cultivation of microorganisms: Nutritional classification, Design and Preparation of media • Comprehend isolation and maintenance of bacteria, algae, fungi, actinomycetes and viruses • Understand the Role of National Biodiversity Authority for culture collection centres • Become acquainted with Bacterial growth kinetics, Growth curve, Generation time and Diauxic growth • Learn different methods of enumeration of bacterial growth with factors affecting bacterial growth.
<p>S.Y. B. Sc. Microbiology Sem-III</p>	
<p>MB-231: Medical Microbiology and Immunology</p>	<ul style="list-style-type: none"> • Understanding the concept of epidemiology with respect to terms like Incubation period, Viability, Susceptibility, Pathogenicity, Virulence, Pathogenesis, Lab diagnosis, Epidemic, Sporadic, Endemic and Pandemic. • Acquainted with human pathogens such as <i>Escherichia coli</i>, <i>Staphylococcus aureus</i> and Fungi like Yeast- <i>Candida</i> as well as Dermatophytes. • Principles of Chemotherapy are introduced based on Selective toxicity, Bioavailability, MIC, MBC, LD50. Accustomed with the terms Antagonism and synergism in drug administration., Antibiotic sensitivity, Antibiotic misuse/antibiotic overuse and Concept of drug resistance (e.g., MRSA, ESBL) • Comprehend the term immunity with its types • Get knowledge of haematopoiesis, Antigens and antibodies, Immunohematology, Inheritance of ABH antigens, Medico legal applications of blood groups • Acquainted with Active and Passive immunization
<p>MB-232: Bacterial Physiology and Fermentation Technology</p>	<ul style="list-style-type: none"> • Acquainted with the term Enzymes, its nomenclature and classification and models for catalysis • Understand the effect of pH, temperature, substrate concentration, enzyme concentration, activators and

	<p>inhibitors on enzymes</p> <ul style="list-style-type: none"> • Understanding the concept of Bacterial Physiology with reference to metabolism, catabolism, anabolism, respiration and fermentation • Comprehend the different metabolic pathways with structures • Acquainted with design of a fermenter, fermentation parameters, use of media for industrial fermentations • Understand the sources of contamination during fermentations
S.Y. B. Sc. Microbiology Sem-IV	
MB-241: Bacterial Genetics	<ul style="list-style-type: none"> • Understanding the different experimental evidence for nucleic acid as genetic material • Comprehend the different types of nucleic acids, Structure of DNA and Prokaryotic DNA replication. • Understand the different models and modes of DNA replication with its basic rules of DNA replication • Get knowledge of Gene expressions, Mutations and reversions • Acquainted with Plasmid genetics
MB-242: Air, Water and Soil Microbiology	<ul style="list-style-type: none"> • The course will help them to get knowledge of the Air Microbiology, methods of air sampling, different types of air samplers, air sanitation and airborne infections. • Deals with water microbiology including bacteriological analysis of water, methods of water purification, water borne infections and bacteriological standards of water quality. • Understand Soil Microbiology, rhizosphere, composting and humus formation, biofertilizers, biocontrol agents and microbial interactions. • Acquire knowledge of carbon and nitrogen cycles with role of microorganisms.
T.Y. B. Sc. Microbiology Sem-V	
MB 351: Medical Microbiology- I	<ul style="list-style-type: none"> • Understand the human anatomy, pathogens associated with diseases. • Acquire knowledge of principles underlying establishment of pathogens in human body. • Comprehend of pathogenesis of specific pathogens causing microbial diseases.

	<ul style="list-style-type: none"> • Assess epidemiological patterns of microbial disease transmission as various modes, intensity at local and global level. • Gain Knowledge principles of chemotherapy of microbial diseases and development of drug resistance among pathogens and strategies to mitigate. • Develop identification systems for microbial disease diagnosis, disease treatment and prevention measures.
MB-352 Immunology- I	<ul style="list-style-type: none"> • Understand immune system structure, composition, function and comparison of different types of immunity. • Acquire knowledge about antigens, Recognition of pathogens; antigen processing and presentation; Immunity to infection and pathological consequences of immunodeficiencies. • To learn the applications of Immunology in monoclonal antibodies, vaccines production and Immunotherapy. • Understand abnormal working of Immune system in hypersensitivity, auto immune diseases, immune tolerance and transplantation immunology. • To develop strategies for Diagnosis of diseases based on antigen and antibody reactions with emphasis on prevailing communicable diseases.
MB 353: Enzymology	<ul style="list-style-type: none"> • To understand methods of active site determination, role of enzymes and its cofactors in microbial physiology. • To learn to perform enzyme assay, purification and quantification of enzymes activity, enzyme kinetics in terms of initial, final velocity, mathematical expression of enzyme kinetic parameters. • To correlate regulation of metabolism at enzymatic levels and apply, methodology for commercial applications of enzymes • To learn mechanisms of transport of solutes across the membrane • To get acquainted with mechanism of biosynthesis and degradation of biomolecules • To comprehend basic concept of autotrophic mode of metabolism of prokaryotes

MB 354: Genetics	<ul style="list-style-type: none"> • To exhibit a knowledge base in Genetics and Molecular Biology • To understand the central dogma of Molecular Biology • To construct genetic map of bacteria and fungi • To get introduced to concept of recombination and bacteriophage Genetics • To understand the concept cloning in bacteria • To demonstrate the knowledge of common and advanced laboratory practices in Molecular Biology
MB 355 Fermentation Technology– I	<ul style="list-style-type: none"> • To impart technical understanding of commercial fermentations. • To apply classical, advanced strain improvement and isolation techniques for fermentation processes. • To optimize and sterilize media used in fermentation industry for commercially economical and efficient fermentations. • To recover the product using suitable methods and ensuring quality of the finished product by quality assurance tests. • To acquaint fermentation economics, process patentability, process validation. • To comprehend the large-scale productions of commercially significant fermentation products of classical and recent significance.
MB 356: Agricultural Microbiology	<ul style="list-style-type: none"> • To understand plant growth improvement with respect to disease resistance, environment tolerance. • To correlate stages of plant disease development, epidemiology, symptom based classification, control methods. • To understand the importance of microorganisms in sustainable agriculture, biotechnological application of bio films, edible vaccines. • To correlate Soil Micro biome and Role of microorganisms in soil health • To determine the use of Microorganisms as tools in plant genetic engineering.
Skilled Base Elective MB 3510 Marine Microbiology	<ul style="list-style-type: none"> • To impart the awareness of unseen and unexplored niche of marine ecosystem of microbes. • To acquire advances in the knowledge of marine microbes and marine ecology. • To learn the field research on marine processes and laboratory research on microorganisms. • To comprehend the role of marine microbes in bioremediation and bioprospecting. • To avail career opportunities in marine education, industry and research.

T.Y.B. Sc. Microbiology Sem-VI

MB 361: Medical Microbiology II	<ul style="list-style-type: none">• Understand the human anatomy, pathogens associated with diseases.• Acquire knowledge of principles underlying establishment of pathogens in human body.• Comprehend of pathogenesis of specific pathogens causing microbial diseases.• Assess epidemiological patterns of microbial disease transmission as various modes, intensity at local and global level.• Gain Knowledge principles of chemotherapy of microbial diseases and development of drug resistance among pathogens and strategies to mitigate.• Develop identification systems for microbial disease diagnosis, disease treatment and prevention measures.
MB 362 Immunology– II	<ul style="list-style-type: none">• Understand immune system structure, composition, function and comparison of different types of immunity.• Acquire knowledge about antigens, Recognition of pathogens; antigen processing and presentation; Immunity to infection and pathological consequences of immunodeficiencies.• To learn the applications of Immunology in monoclonal antibodies, vaccines production and Immunotherapy.• Understand abnormal working of Immune system in hypersensitivity, auto immune diseases, immune tolerance and transplantation immunology.• To develop strategies for Diagnosis of diseases based on antigen and antibody reactions with emphasis on prevailing communicable diseases
MB 363: Metabolism	<ul style="list-style-type: none">• To understand methods of active site determination, role of enzymes and its cofactors in microbial physiology.• To learn to perform enzyme assay, purification and quantification of enzymes activity, enzyme kinetics in terms of initial, final velocity, mathematical expression of enzyme kinetic parameters.• To correlate regulation of metabolism at enzymatic levels and apply, methodology for commercial applications of enzymes• To learn mechanisms of transport of solutes across the membrane• To get acquainted with mechanism of biosynthesis and degradation of

	<p>biomolecules</p> <ul style="list-style-type: none"> • To comprehend basic concept of autotrophic mode of metabolism of prokaryotes
MB-364: Molecular Biology	<ul style="list-style-type: none"> • To exhibit a knowledge base in Genetics and Molecular Biology • To understand the central dogma of Molecular Biology • To construct genetic map of bacteria and fungi • To get introduced to concept of recombination and bacteriophage Genetics • To understand the concept cloning in bacteria • To demonstrate the knowledge of common and advanced laboratory practices in Molecular Biology
MB 365 Fermentation Technology – II	<ul style="list-style-type: none"> • To impart technical understanding of commercial fermentations. • To apply classical, advanced strain improvement and isolation techniques for fermentation processes. • To optimize and sterilize media used in fermentation industry for commercially economical and efficient fermentations. • To recover the product using suitable methods and ensuring quality of the finished product by quality assurance tests. • To acquaint fermentation economics, process patentability, process validation. • To comprehend the large-scale productions of commercially significant fermentation products of classical and recent significance.
MB 366: Food Microbiology	<ul style="list-style-type: none"> • To describe food safety problems and solutions in India and global scale. • Identify and classify types of microorganisms in food processing and compare their • Characteristics and behaviour • To learn food classification based on their perishability, intrinsic and extrinsic factors affecting the growth of microbes in foods, role of microorganisms in food fermentation. • To acquire knowledge about food spoilage, food borne diseases, predisposition and preventive and control measures. • To apply principles of sanitation, heat treatment, irradiation, modified atmosphere, antimicrobial preservatives and combination of method (hurdle concept) to control microbial growth

<p>Skilled Base Elective MB 3610 Waste Management</p>	<p>with emphasis on HACCP guidelines.</p> <ul style="list-style-type: none"> • To understand waste management and its practicable applicability. • To assess the magnitude and influence of hazardous content of waste, pollution of waters and waste water treatment technologies. • To learn the design and working of treatment plants and methods used for liquid and solid waste treatment. • To impart the understanding of kinetics of biological systems used in waste treatment. • To learn the standards of waste management and competent authorities involved at National and international level.
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Course Outcomes B. Sc Zoology Sem-V	
Title of Course	Outcomes
ZO-351 Pest Management	<ol style="list-style-type: none"> 1. Define pest management. 2. Describe the economic, ecological, and sociological benefits of IPM. 3. Distinguish positive and negative impacts of pesticide use. 4. Understand problems resulting from misuse, overuse, and abuse of chemical pesticides. 5. Define and describe pesticide resistance and how it develops. 6. Identify ecological and biological characteristics important in development of pest populations. 7. Identify 10 tactics commonly used in IPM and be able to distinguish them. 8. Understand society's role in IPM decisions. 9. Describe different groups of pests and compare them to weeds and plant pathogens. 10. Analyse and compare management tactics to determine the best approach to reducing pest populations, weeds, and disease presence. 11. Locate appropriate, scientifically valid sources of information on specific tactics to manage insect pests, weeds, and diseases. 12. Know and how to develop an IPM program
ZO-352 Histology	<ol style="list-style-type: none"> 1. The students will be able to understand, classify and identify the different types of tissue. 2. The students will understand the complexity of various tissues in an organ. 3. The students will be able to learn structure & functions of various tissues. 4. The students will understand the various diseases related to organs. 5. The student will be able to know the role of glands in mammals.
ZO- 353 Biological Chemistry	<ol style="list-style-type: none"> 1. Learners shall be able to understand basic concepts and significance of biochemistry 2. The students will learn about the pH and Buffers. 3. The students will learn about the chemical structures of carbohydrate, and their biological and clinical significance 4. The students will be able to understand, interpret structure and importance of proteins, carbohydrates and lipids 5. Learners will be able to comprehend variations in enzyme activity and kinetics.
ZO-354 Genetics	<ol style="list-style-type: none"> 1. History and scope of Genetics 2. Understanding the pre mendelian genetic concepts 3. To study the laws and concepts of Mendelian inheritance. 4. Principles of deviation from Mendelian inheritance with examples. 5. Concepts of multiple alleles with examples. 6. Understanding the mechanism of sex determination in different organisms. 7. Application of statistical concepts used in health medical science, plants and animal system 8. Interpretation of results commonly used in statistical analysis
ZO 355 – Developmental Biology	<ol style="list-style-type: none"> 1. Understand the terms: Gametogenesis, Fertilization and early development. 2. Understand the Morphogenesis and Organogenesis in animals. 3. Understand the Aging, Apoptosis and Senescence

ZO 356 – Parasitology	<ol style="list-style-type: none"> 1. The students will be able to learn about basics and scope of parasitology. 2. The students will be able to learn the types of host and parasite with examples. 3. The students will be able to learn about the morphology, life cycle, pathogenicity and treatment of common parasites (Protists and Platyhelminthes). 4. The students will be able to learn about host –parasite relationships and their effects on host body. 5. The students will be able to learn about the arthropod parasites and their role as vector
ZO 3510: Aquarium Management	<ol style="list-style-type: none"> 1: To comprehend the key skills needed to set up an aquarium. 2: To be able to identify and differentiate the different aquarium/ornamental fishes. 3: To be able to formulate fish food that provides with complete nutritional benefits. 4: To analyze the required budget to set up a well maintained home aquarium.
ZO – 3511 Poultry Management	<ol style="list-style-type: none"> 1. The students will be able to understand the Poultry farming practices. 2. The students will be able to understand the poultry breeding techniques. 3. The students will be able to understand poultry rearing techniques. 4. The students will be able to understand feeding requirement and food ingredients. 5. The students will be able to understand the poultry disease and their pathogens. 6. The students will be able to understand market value of poultry products.
Course Outcomes B. Sc Zoology Sem-VI	
Title of Course	Outcomes
ZO 3510: Aquarium Management	<ol style="list-style-type: none"> 1. The students will be able to understand the basics principles of Medical and Forensic Zoology. 2. The students will be able to understand scientific methods in crime detection. 3. The students will be able to understand the advancements in the field of Medical and Forensic Zoology. 4. The students will be able to understand modern tools, techniques and skills in forensic investigations. 5. The students will be able to describe the fundamental principles and functions of forensic science and its significance to human society.
ZO 362 – Animal Physiology	<ol style="list-style-type: none"> 1. The various physiological organ-systems and their importance to the integrative functions of the human body. 2. Understand Concept of energy requirements 3. Various aspects of Digestive physiology. 4. Circulatory system with medical conditions 5. Understand Respiratory mechanism and gases transport. 6. Eliminations of waste materials from the body. 7. Develop understanding in Structure and functions of muscles 8. Understand formation of gametes and function of endocrine glands.
ZO 363 – Molecular Biology	<ol style="list-style-type: none"> 1. Learner shall get an insight into molecular mechanisms of various biological processes in cells and organisms 2. Learner shall get an insight into the Structure of DNA and RNA, DNA and RNA as genetic material 3. The course shall prepare learner to get insight into the Central Dogma of Molecular Biology 4. Learner shall also understand the concept of gene regulation 5. Learner shall get an insight into the DNA Damage and Repair

ZO 364 – Entomology	<ol style="list-style-type: none"> 1. Understand basic concepts in Entomology and its scope. 2. Learn morphology and anatomy of Insects. 3. Understand the concept of social organization in Insects. 4. Understand the development process of Insects. 5. Identify disease causing insect vectors. 6. Will be able to design and implement pest controlling methods against pests.
ZO 365 – Techniques in Biology	<ol style="list-style-type: none"> 1. Understand the various Applications of Biotechnology. 2. Study and Understand the Hybridoma technology as well as Enzyme biotechnology. 3. Study and understand the DNA Recombinant technology. 4. Understand the industrial and environmental biotechnology. 5. Study and understand the Stem cell biotechnology. 6. Understand the Scope and Significance of Biotechnology.
ZO 366 – Evolutionary Biology	<ol style="list-style-type: none"> 1. Students will be able to learn most of the essential aspects of Evolutionary Biology in detail which will help them in acquiring better understanding regarding the subject. 2. Explain important processes, principles and concepts and critically evaluate theories and empirical research within evolutionary biology 3. Apply evolutionary theory and concepts to address empirical and theoretical questions in evolutionary biology. 4. Independently investigate evolutionary questions using literature and analyses of empirical data. 5. Communicate the principles, theories, problems and research results associated with questions that lie within the evolutionary framework to students

Programme Outcomes: B. Sc Mathematics

Department of Mathematics	After successful completion student should be able to;
Programme Outcomes	<ol style="list-style-type: none"> 1. Be prepared to use Mathematics, not only in the discipline of Mathematics, but also in other disciplines and in their future endeavors. 2. Recognize what constitutes mathematical thinking, including the ability to produce and judge the validity of rigorous mathematical arguments. 3. Develop the skills necessary to formulate and understand proofs and to provide justification. 4. Think critically and communicate clearly mathematical concepts and solutions to real-world problems. 5. Develop an understanding of the precise language of Mathematics, and be able to integrate mathematical arguments with their critical thinking skills. 6. The student develops theoretical, applied and computational skills. The student gains confidence in proving theorems and solving problems.
Course Outcomes F.Y.B.Sc Mathematics Sem I	
Course Title	Outcomes
Algebra	<p>After completing this course student will be able to</p> <ol style="list-style-type: none"> 1. Solve various problems on properties of integers and use the basic concepts of divisibility, congruence and their applications in basic algebra. 2. Apply factor theorem, remainder theorem to solve problems on polynomials and by using given relations between roots he will find the roots of polynomials.
Calculus I	<p>After completing this course student will be able to</p> <ol style="list-style-type: none"> 1. Students will be familiar with the techniques of integration and differentiation of function with real variables 2. Identify and apply the intermediate value thm, Mean value theorem and L'Hospital's rule 3. Verify the values of limit of a function at a point using the definition of a limit
Course Outcomes F.Y.B.Sc Mathematics Sem II	
Analytical Geometry	<p>After completing this course student will be able to</p> <ol style="list-style-type: none"> 1. Solve the problems of lines in three dimension, planes, spheres, and cylinders and how geometry is related to algebra by using their algebraic equations. 2. After studying this course, students should able to understand geometrical terminology for angle, triangle, quadrilaterals and circles.
Calculus II	<p>After completing this course student will be able to</p> <ol style="list-style-type: none"> 1. Identify types of differential equations and solve differential equations such as Exact, homogeneous, non- homogeneous, and linear and Bernoulli differential equations etc. 2. Identify and apply the function properties of real number system such as the completeness property. 3. Students will be familiar with the techniques of integration and differentiation of function with real variables.

S.Y.B.Sc Mathematics Sem-I	
Course Title	Outcomes
Multivariable Calculus I	After completing the course, students will be able to 1. Students learn analysis of multivariable functions, continuity, and differentiability. 2. learn the concepts of multiple integrals and their Application to area and volumes
Laplace Transforms and Fourier Series	After completing this course student will be able to 1. Learn the methods and properties of Laplace transform and Inverse Laplace Transform, apply them to solve Linear Differential equations. 2. Apply the fundamental concepts of Fourier series, Fourier Sine series, Fourier Cosine series to find series representation of irrational numbers.
S.Y.B.Sc Mathematics Sem-II	
Course Title	Outcomes
Linear Algebra	After completing this course student will be able to 1. Use the concept of basis and dimension of vector spaces linear dependence and linear independence, to solve problems. 2. Use the concept of inner product spaces to find norm of vectors, distance between vectors, check the orthogonality of vectors, to find the orthogonal and orthonormal basis. 3. Apply the properties of linear transformations to linearity of transformations, kernel and rank of linear transformations, inverse transformations to solve the problems of matrix transformations, change of basis.
Numerical Method & its Application	After completing this course student will be able to 1. Solve the equation by location of roots, Regula Falsi theorem, Newton Raphson method, Gauss seidel method. 2. Know the fundamental theorem of difference Calculus. 3. Solve the Numerical Integration. 4. Understand the Numerical solution of first order ODE by Euler's method, Modified Euler's method & Runge -Kutta method.

B.Sc Mathematics Sem-III	
Course Title	Outcomes
Metric Spaces	After completing this course student will be able to 1. Learn the basic abstract ideas of analysis 2. Learn the basic ideas open sets, closed sets, limit point, isolated points, boundary points, subspace, product metric spaces and apply them to study the nature of sets. 3. Learn the theorems on completeness, compactness, connectedness and use them to solve the problems. identify the continuity of a function which is defined on metric spaces, at a given point and identify the set of points on which a function is continuous by using different theorems.
Real Analysis-I	After completing the course, students will be able to 1. know sequence and series of real numbers and their convergence and divergence.
Group Theory	After completing the course, students will be able to- 1. Identify the various algebraic structures with their corresponding binary operations. 2. generalize the groups on the basis of their orders, elements, order of elements and group relations 3. Compare two groups of same orders on the basis of isomorphism Criteria. 4. Compute the possible subgroups of given group of specific orders and will recognize them.
Ordinary Differential Equations	On satisfying the requirements of this course, students will have the knowledge and skills to: Solve linear differential equations with constant coefficients, non-homogeneous differential equations, system of first order equations, solution of differential equations by Power series method
Operations Research	After completing the course, students will be able to- 1. Formulate and model a LPP from a word problem and solve them graphically in 2-D 2. Modify a primal problem and use the LPP to identify the new solution 3. Understand basic notions like feasibility, infeasibility, basic solutions, unbounded solutions etc.
Lattice Theory	After Completion of this course students will be able to 1. Know the basic information of order sets, its example, diagram & maps between ordered sets. 2. Study lattice and complete lattice. 3. Understand the modular, distributive and Boolean lattice
B.Sc Mathematics Sem-IV	
Title of Course	Outcomes
Complex Analysis	On satisfying the requirements of this course, students will have the knowledge and skills to: 1. solve problems on basic concepts of modulus, argument of a complex number, deMoivre's theorem and use them to find roots of an algebraic equation. 2. Define continuity and differentiability for complex functions 3. Prove the Cauchy-Riemann equations and apply them to

	<p>complex functions in order to determine whether a given continuous function is complex differentiable,</p> <p>4. Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem,</p> <p>5. Compute the Taylor and Laurent expansions of simple functions, determining the nature of the singularities and calculating residues,</p> <p>6. Prove the Cauchy Residue Theorem and use it to evaluate integrals.</p>
Real Analysis-II	<p>On satisfying the requirements of this course, students will have the knowledge and skills to: Know convergence of sequence and series of functions, Riemann integrals, Improper integrals and its applications,</p>
Ring Theory	<p>After completing the course, students will able to-</p> <ol style="list-style-type: none"> 1. Assess properties implied by the definitions of rings 2. Use various canonical types of rings 3. Analyze and demonstrate examples of ideals and quotient rings 4. Use the concept of isomorphism and homomorphism for rings
Partial Differential Equations	<p>On satisfying the requirements of this course, students will have the knowledge and skills to:</p> <ol style="list-style-type: none"> 1. Form the partial differential equations and Solve the problems on partial differential equations. 2. Solve the problems on first order and higher degree partial differential equations and its applications.
Optimization Techniques	<p>After completing this course students will have the knowledge and skills to:</p> <ol style="list-style-type: none"> 1. Solve the project management related problems by using the concepts of CPM, PERT so as to findout the project completion time. 2. Fond the optimal solutions of Game theory problems, Optimal solution of two person zero sum game, Solution of mixed strategy games, graphical solution of games, linear programming solution of game. 3. Solve the problems on Replacement policy after failure , how to process the n jobs on two machines or three machines in minimum time so that the machines remain idle for short time. 4. Solve the optimization unconstrained the optimization problems and constrained optimization problems of multivariable functions.
Computational Geometry	<p>After completing the course, students will able to-</p> <ol style="list-style-type: none"> 1. Design, analyze and develop algorithm and method for solving geometric problems efficiently 2. Assess theoretical and practical problems that involves geometry 3. Generalize basic notions of reflection, rotation, projection with real life examples

Course Outcomes F.Y.B.Sc & S.Y.B.Sc Physics

F.Y.B.Sc Physics Sem -I	
Course Title	Course Outcomes
Mechanics and Properties of Matter (11121)	<p>On successful completion of this course students will be able to do the following:</p> <ol style="list-style-type: none">1. Demonstrate an understanding of Newton's laws and applying them in calculations of the motion of simple systems.2. Use the free body diagrams to analyse the forces on the object.3. Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them.4. Understand the concepts of elasticity and be able to perform calculations using them.5. Understand the concepts of surface tension and viscosity and be able to perform calculations using them.6. Use of Bernoulli's theorem in real life problems.7. Demonstrate quantitative problem solving skills in all the topics covered.
Physics Principles Applications (11122)	<p>On successful completion of this course students will be able to do the following:</p> <ol style="list-style-type: none">1. To understand the general structure of atom, spectrum of hydrogen atom.2. To understand the atomic excitation and LASER principles.3. To understand the bonding mechanism and its different types.4. To demonstrate an understanding of electromagnetic waves and its spectrum.5. Understand the types and sources of electromagnetic waves and applications.6. To demonstrate quantitative problem solving skills in all the topics covered.
Physics Laboratory-IA (11123)	<p>After successfully completing this laboratory course, the students will be able to</p> <ol style="list-style-type: none">1. Acquire technical and manipulative skills in using laboratory equipment, tools, and materials.2. Demonstrate an ability to collect data through observation and/or experimentation and interpreting data.3. Demonstrate an understanding of laboratory procedures including safety, and scientific methods.4. Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.5. Acquire the complementary skills of collaborative learning and teamwork in laboratory settings.

F.Y.B.Sc Physics Sem -II	
Course Title	Outcomes
Heat and Thermodynamics (12121)	<p>After successfully completing this course, the student will be able to</p> <ol style="list-style-type: none"> 1. Describe the properties of and relationships between the thermodynamic properties of a pure substance. 2. Describe the ideal gas equation and its limitations. 3. Describe the real gas equation. 4. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. 5. Analyse the heat engines and calculate thermal efficiency. 6. Analyze the refrigerators, heat pumps and calculate coefficient of performance. 7. Understand property 'entropy' and derive some thermodynamical relations using entropy concept. 8. Understand the types of thermometers and their usage.
Electricity and Magnetism (12122)	<p>On successful completion of this course students will be able to do the following:</p> <ol style="list-style-type: none"> 1. To understand the concept of the electric force, electric field and electric potential for stationary charges. 2. Able to calculate electrostatic field and potential of charge distributions using Coulomb's law and Gauss's law. 3. To understand the dielectric phenomenon and effect of electric field on dielectric. 4. To Study magnetic field for steady currents using Biot-Savart and Ampere's Circuital laws. 5. To study magnetic materials and its properties. 6. Demonstrate quantitative problem solving skills in all the topics covered.
Physics Laboratory-IB (12123)	<p>After successfully completing this laboratory course, the students will be able to</p> <ol style="list-style-type: none"> 1. Acquire technical and manipulative skills in using laboratory equipment, tools, and materials. 2. Demonstrate an ability to collect data through observation and/or experimentation and interpreting data. 3. Demonstrate an understanding of laboratory procedures including safety, and scientific methods. 4. Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena. 5. Acquire the complementary skills of collaborative learning and teamwork in laboratory settings.

S.Y.B.Sc Physics Sem-III	
Course Title	Outcomes
Mathematical Methods in Physics (23121)	After the completion of this course students will be able to 1.Understand the complex algebra useful in physics courses 2.Understand the concept of partial differentiation. 3.Understand the role of partial differential equations in physics 4.Understand vector algebra useful in mathematics and physics 5.Understand the singular points of differential equation.
Electronics (23122A)	On successful completion of this course the students will be able to 1.Apply laws of electrical circuits to different circuits. 2.Understand the relations in electricity 3.Understand the properties and working of transistors. 4.Understand the functions of operational amplifiers. 5.Design circuits using transistors and operational amplifiers. 6.Understand the Boolean algebra and logic circuits.
Physics Lab 2A (23123)	After completing this practical course students will be able to 1. Use various instruments and equipment. 2. Design experiments to test a hypothesis and/or determine the value of an unknown quantity. 3. Investigate the theoretical background to an experiment. 4. Set up experimental equipment to implement an experimental approach. 5. Analyse data, plot appropriate graphs and reach conclusions from your data analysis. 6. Work in a group to plan, implement and report on a project/experiment. Keep a well-maintained and instructive laboratory logbook.
S.Y.B.Sc Physics Sem-IV	
Course Title	Outcomes
Oscillations, Waves and Sound (24121)	On completion of this course, Students will be able to 1.Understand the physics and mathematics of oscillations. Solve the equations of motion for simple harmonic, damped, and forced oscillators. 2.Formulate these equations and understand their physical content in a variety of applications, 3.Describe oscillatory motion with graphs and equations, and use these descriptions to solve problems of oscillatory motion. 4.Explain oscillation in terms of energy exchange, giving various examples. 5.Solve problems relating to undamped, damped and force oscillators and superposition of oscillations. 6.Understand the mathematical description of travelling and standing waves. 7.Recognise the one-dimensional classical wave equation and solutions to it. 8.Calculate the phase velocity of a travelling wave. 9.Explain the Doppler effect, and predict in qualitative terms the frequency change that will occur for a stationary and a moving observer. 10.Define the decibel scale qualitatively, and give examples of sounds at various levels. 11.Explain in qualitative terms how frequency, amplitude, and wave shape affect the pitch, intensity, and quality of tones produced by musical instruments

<p style="text-align: center;">Optics (24122)</p>	<p>This course will enable Students to:</p> <ol style="list-style-type: none"> 1. acquire the basic concepts of wave optics 2. describe how light can constructively and destructively interfere 3. explain why a light beam spreads out after passing through an aperture 4. summarize the polarization characteristics of electromagnetic waves 5. appreciate the operation of many modern optical devices that utilize wave optics 6. Understand optical phenomena such as polarisation, birefringence, interference and diffraction in terms of the wave model. 7. analyse simple examples of interference and diffraction phenomena. 8. be familiar with a range of equipment used in modern optics.
<p style="text-align: center;">Physics Lab 2B (24123)</p>	<p>After completing this practical course students will be able to</p> <ol style="list-style-type: none"> 1. Use various instruments and equipment. 4. Design experiments to test a hypothesis and/or determine the value of an unknown quantity. 5. Investigate the theoretical background to an experiment. 4. Set up experimental equipment to implement an experimental approach. 7. Analyse data, plot appropriate graphs and reach conclusions from your data analysis. 8. Work in a group to plan, implement and report on a project/experiment. 9. Keep a well-maintained and instructive laboratory logbook.

Programme Outcomes: B. Sc Botany

Department of Botany	After successful completion of three year degree program in Botany a student is able to;
Programme Outcomes	<ol style="list-style-type: none"> 1. Students know about different types of lower & higher plants their evolution in from algae to angiosperm & also their economic and ecological importance. 2. Cell biology gives knowledge about cell organelles & their functions. 3. Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems. 4. Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations & multiple alleles. 5. Structural changes in chromosomes. 6. Student can describe morphological & reproductive characters of plant and also identified different plant families and classification. 7. They know economic importance of various plant products & artificial methods of plant propagation 8. Use modern Botanical techniques and decent equipments. 9. To inculcate the scientific temperament in the students and outside the scientific community.

Course Outcomes F.Y.B. Sc Botany Sem-I	
Title of Course	Outcomes
BO-111 Plant Life and Utilization-I	<ol style="list-style-type: none"> 1. This Course is to ensure that you can achieve an up to date level of understanding of plant science. 2. Knowledge and understanding of the range of plant diversity in the term of Structural, Functional and Environmental relationship. 3. The role of plant is the functioning of the ecosystem 4. Apply the knowledge of the basic science, life science of the fundamental processes of the plant to study and analyze any plant form. 5. Know about correct information any plant species.
BO-112 Plant Morphology and Anatomy	<ol style="list-style-type: none"> 1. understanding the Morphological structure of plant its classification, Identification and Nomenclature. 2. Know the about Morphological of reproductive part of that plant. 3. understanding the better knowledge of Inflorescence and their Inflorescence type. 4. know the about anatomical structure of every plant part and inside the tissue arrangement.
Course Outcomes F.Y.B. Sc Botany Sem-II	
Bo-121 Plant life and Utilization - II	<ol style="list-style-type: none"> 1. Identify the taxonomic position of plant and habit and reproductive structure. 2. Known about over all plant diversity their scientific naming and in identification. 3. Known about detail structure of each plant. 4. Apply the knowledge of the basic science, life science of the fundamental process of the plant to study and analyze any plant form.

Bo-122 Principal of plant science	<ol style="list-style-type: none"> 1. To know about the scope of Plant physiology. 2. Understand the fundamental of recombinant DNA technology. 3. Know about Diffusion, Osmosis and plasmolysis theory in plant physiology. 4. Understanding the Structural of Plant cell and Cell cycle in plant. 5. know about the better knowledge of Molecular biology structure of DNA and its Scope
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Course Outcomes B. Sc Botany Sem-III

Title of Course	Outcomes
BO -331 Cryptogamic Botany	<p>After completion of these courses students should be able to;</p> <ol style="list-style-type: none"> 1. Study of cryptogams to understand their Diversity. 2. Know the systematics, morphology and structure of algae, fungi , bryophytes, and Pteredophytes. 3. Know life cycle pattern of cryptogams. 4. Know economic importance of cryptogams. 5. Know evolution of algae, fungi, bryophytes and Pteredophytes
BO-332 Cell & Molecular Biology	<ol style="list-style-type: none"> 1. Gain knowledge about cell and its function. 2. Learn the scope and importance of molecular biology. 3. Understand ultra structure of cell wall, plasma membrane and cell organelles 4. Understand the biochemistry of cell. 5. Understand the biochemical nature of nucleic acid and their role in living systems.
BO-333 Genetics & Evolution	<ol style="list-style-type: none"> 1. Systematic study of gymnosperms and angiosperms. 2. Understand the morphological and reproductive character of spermatophytic plants. 3. Understand economic importance of gymnosperms and angiosperms. 4. Understand the diversity among spermatophyte. 5. To bring investigation of palaeo botanical study in India. 6. Know, scope and application of Palaeo botany. 7. Know types of fossils, geological time scale.
BO-334 Spermatophyta & Palae Botany	<ol style="list-style-type: none"> 1. Know the general Characters, economic importance & classification of gymnospermic plant according to chumberlain. 2. study life cycle of pinus & Gnetum with reference to morphology, anatomy, reproduction, gametophyte & Sporophyte. 3. Study the families according to Bentham & Hookers system CO- 4. Know the plant identification 5. Understand the fossils with reference to fossils group.
BO-335 Horticulture & Floriculture	<ol style="list-style-type: none"> 1. Understand economic importance of plant and plant product. 2. Know the methods of plant propagation. 3. Understand the fruit & vegetables production technology. 4. Understand the scope & importance of floriculture. 5. Understand the methods of cultivation of different flowering plants.
BO-336 Computational Botany	<ol style="list-style-type: none"> 1. Understand the scope & importance of biostatistics. 2. Understand the scope and some basic commonly used terms like sampling, data, dispersion, population, central tendency etc. 3. Knowledge to apply statistical analysis to biological data for testing different hypothesis.

Course Outcomes B. Sc Botany Sem-IV

BO-341 Plant Physiology & Biochemistry	<ol style="list-style-type: none">1. Know scope and importance of plant physiology.2. Understand plant & water relation.3. Understand process of photosynthesis, C₃, C₄, CAM pathways.4. Understand the process of respiration, growth and developmental process in plant.5. Understand the biochemistry of cell.6. Understand the different biochemical reaction of biomolecules in plant cell.
BO-342 Plant Ecology & Biodiversity	<ol style="list-style-type: none">1. Know the biotic and abiotic components of ecosystem.2. Food chain & food web in ecosystem.3. Understand diversity among various groups of plant kingdom.4. Understand plant community & ecological adaptation in plants.5. Scope, importance and management of biodiversity.
BO-343 Plant Pathology	<ol style="list-style-type: none">1. Understand scope and importance of plant pathology.2. Know disease cycle and disease development.3. Know the effect of plant diseases on economy of crops.4. Know the methods of studying plant diseases.5. They can identify the plant diseases like bacterial, nematodal, and fungal.6. Know the disease forecasting.7. Know the prevention and control measures of plant diseases.
BO-344 Medicinal & Economic Botany	<ol style="list-style-type: none">1. Understand scope and importance of pharmacognosy.2. Know the cultivation, collection, processing & importance of various herbal drugs.3. Understand the scope of economic botany.4. Know the botanical resources like non wood forest products.5. Understand the concept of Ayurvedic pharmacy.
BO- 345 Plant Biotechnology	<ol style="list-style-type: none">1. Understand the fundamental of recombinant DNA technology.2. Understand tissue culture techniques.3. Role of microbes in agriculture, medicine & industry.4. Know the fermentation technology.5. Understand the concept of bioinformatics, genomics & proteomics.6. Understand technical germplasm & cryopreservation
BO-346 Plant Breeding & Seed Technology	<ol style="list-style-type: none">1. Understand the scope & importance of plant breeding.2. Know the technique of production of new superior crop varieties.3. Know the about heterosis, hybrid vigor etc.4. Know the process of hybrid variety, development & their release.5. Know about seed germination, processing, production etc.




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M.V.P SAMAJ'S

K.G.D.M ARTS, COMMERCE AND SCIENCE COLLEGE, NIPHAD

Department of computer science

Program Outcomes : BSc (Comp. Sci.)

Upon completion of the Degree Programme the graduate will be able to do –

PO1: At the first year of under-graduation, the basic foundations of two important skills required for software development are laid. A course in problem solving and programming along with a course in database fundamentals forms the preliminary skill set for solving computational problems. The practical courses are designed to supplement the theoretical training in the year. Along with Computer Science, the two theoretical and one practical course each in Statistics, Mathematics and Electronics help in building a strong foundation. Career Advancement courses are introduced in both semesters to cover additional areas of Computer Science.

PO2: At the second year of under-graduation, computational problem-solving skills are further strengthened by a course in Data structures. Software engineering concepts that are required for project design are also introduced. Essential concepts of computer networking are also introduced in this year. The practical course included in both semesters complements the theory courses.

PO3: At the third year of under-graduation, all the subjects are designed to fulfill core Computer Science requirements as well as meet the needs of the software industry. Theory courses are adequately supplemented by hands-on practical courses. Skill Enhancement courses enable the students to acquire additional value-added skills.

Programme Specific Outcomes

Computer Science Students - Upon completion of the Degree Programme the graduate will be able to do - The objective of the program is to prepare students to undertake careers involving problem solving using computer science and technologies, or to pursue advanced studies and research in computer science. The syllabus which comprises of Computer Science subject along with that of the three allied subjects (Mathematics, Electronics and Statistics) covers the foundational aspects of computing sciences and also develops the requisite professional skills and problem-solving abilities using computing sciences

Course Outcomes : FYBSc(C.S.) SEM-I

Course Title	Code	Outcomes
Problem Solving using Computer and 'C' Programming	CS- 111	<ol style="list-style-type: none"> 1. Explore algorithmic approaches to problem solving. 2. Develop modular programs using control structures and arrays in 'C'. 3. Devise pseudo codes and flowchart for computational problems. 4. Write, debug and execute simple programs in 'C'.
Database Management Systems	CS-112	<ol style="list-style-type: none"> 1. Create database tables in postgre SQL. 2. Write and execute simple, nested queries. 3. Solve real world problems using appropriate set, function, and relational models. 4. Use SQL.
Matrix Algebra	MTC 111	<ol style="list-style-type: none"> 1. A students should be able to work with graphs and identify certain parameters and properties of the given graphs. 2. A students should be able to perform certain algorithms, justify why these algorithms work, and give some estimates of the running times of these algorithms.
Discrete Mathematics	MTC 112	<ol style="list-style-type: none"> 1. A students should be able to solve basic exercises of the type: given a graph with properties X, prove that the graph also has property Y. 2. A students should develop an appreciation for the literature on the subject and be able to read and present results from the literature.
Semiconductor Devices and Basic Electronic Systems	ELC 111	<ol style="list-style-type: none"> 1. Familiarize with current and recent technological developments 2. Explore various types of semiconductor devices 3. Study elementary electronic circuits and systems
Principles of Digital Electronics	ELC 112	<ol style="list-style-type: none"> 1. Get familiar with concepts of digital electronics 2. Learn number systems and their representation. 3. Understand basic logic gates, Boolean algebra and K-maps. 4. To study arithmetic circuits, combinational circuits and sequential circuits.
Descriptive Statistics I	CSST 111	<ol style="list-style-type: none"> 1. At the end of the course, a student should be well equipped to learn and apply acquired techniques in computer-based applications
Mathematical Statistics	CSST 112	<ol style="list-style-type: none"> 1. covers basic concepts and terminology in Statistics and covers basic tools and methods required for data analysis

Course Outcomes : FYBSc(C.S.) SEM-II

Course Title	Code	Outcomes
Advanced 'C' Programming	CS 121	<ul style="list-style-type: none"> • Develop modular programs using control structures, pointers, arrays, strings and structures • Design and develop solutions to real world problems using C.
Relational Database Management Systems	CS 122	<ul style="list-style-type: none"> • Design E-R Model for given requirements and convert the same into database tables. • Use database techniques such as SQL & PL/SQL. • Explain transaction Management in relational database System. • Use advanced database Programming concepts.

Linear Algebra	MTC 121	<ul style="list-style-type: none"> • A students should be able to write cohesive and comprehensive solutions to exercises and be able to defend their arguments.
Graph Theory	MTC 122	<ul style="list-style-type: none"> • A students should be able to solve basic exercises of the type:given a graph with properties X, prove that the graph also has property Y.
Instrumentation System	ELC 121	<ul style="list-style-type: none"> • To study Instrumentation System. • To study various Sensors, Transducer and Actuators • To study Smart Instrumentation System. • Detail Study of OPAMP For signal Conditioner.
Basics of Computer Organization	ELC 122	<ul style="list-style-type: none"> • To get familiar digital sequential circuits. • To study Basic computer Organization. • To study Memory architecture.
Methods of Applied Statistics	CS 111	<ul style="list-style-type: none"> • To understand the relationship between two variables using scatter plot. • To compute coefficient of correlation, coefficient of regression • To fit various regression models and to find best fit.
Continuous Probability Distributions and Testing of Hypothesis	CSS T 112	<ul style="list-style-type: none"> • To fit the Normal distribution. • To understand the trend in time series and how to remove it. • To apply inferential methods for real data sets. • To generate model sample from given distributions. • To understand the importance and functions of different statistical organizations in the development of nation.



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