Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya,

Kavathe Mahankal, Dist- Sangli.

Course Outcomes

SR. NO.	DEPARTMENT
1	ENGLISH
2	HINDI
3	MARATHI
4	GEOGRAPHY
5	ECONOMICS
6	SOCIOLOGY
7	HISTORY
8	POLITICAL SCIENCE
9	PSYCHOLOGY
10	PHYSICAL EDUCATION
11	PHYSICS
12	CHEMISTRY
13	BOTANY
14	ZOOLOGY
15	MATHEMATICS
16	SATISTICS
17	COMMERCE

Course Outcomes

Department of English

COURSE OUTCOMES (ENG):
ENG.: UNDERSTANDIG DRAMA

CO1: Understand the form of drama with its origin, definitions and development of drama as a form of literature.

CO2: Get acquainted with the worldwide drama, particularly Indian, English and American.

CO3: Understand the various trends in drama.

CO4: Understand the various themes dealt in the dramas of different periods, particularly prescribed dramas.

CO5: Understand how to analyze given text.

CO6: Improve their critical faculty, sharpen their perception and observation on the phenomena of literature.

COURSE OUTCOMES (ENG):

ENG.: UNDERSTANDIG POETRY

CO1: Understand the form of poetry with its origin, definitions and development of poetry as a form of literature.

CO2: Get acquainted with the poetical creation from the different periods worldwide.

CO3: Understand the various trends in poetry.

CO4: Understand the various themes dealt in the poetry of different periods.

CO5: Understand how to analyze given text.

CO6: Improve their critical faculty, sharpen their perception and observation on the phenomena of literature.

COURSE OUTCOMES (ENG):

ENG.: UNDERSTANDIG NOVEL

CO1: Understand the form of novel with its origin, definitions and development of novel as a form of literature.

CO2: Get acquainted with the worldwide novel, particularly Indian and English.

CO3: Understand the various trends in novel.

CO4: Understand the various themes dealt in the novels of different periods,

CO5: Understand how to analyze given text.

CO6: Improve their critical faculty, sharpen their perception and observation on the phenomena of

literature.

COURSE OUTCOMES (ENG):

ENG.: THE STRUCTURE AND FUNCTION OF MODERN ENGLISH

CO1: Understand the concepts of phonology.

CO2: Get acquainted with the terms, morphemes, allomorphs and morphology.

CO3: Understand the open class and closed class words.

CO4: Understand the phrase as a unit of language.

CO5: Understand the clause elements and structure of complex sentence.

CO6: Understand the different types of cohesive devices.

CO7: Get acquainted with different types of discourse and different domains of discourse.

COURSE OUTCOMES (ENG):

ENG.: LITERARY CRITICISM AND APPRECIATION

CO1: Understand the nature and function of the literature.

CO2: Understand the nature and function of the criticism.

CO3: Understand the different approaches to study the literary works.

CO4: Understand and use the Biographical and Psychological approach.

CO5: Understand the different figures of speech.

CO6: Understand the different trends in criticism.

CO7: Understand how to analyze a literary work.

Department of Hindi

B.A.I Sem.- I हिंदी कविता पेपर – I

Course Outcomes: After successful completion of this course, the students will be able to:

CO1: आधुनिक हिंदी के प्रतिनिधि कविताओं की जानकारी प्राप्त हुई।

CO2: पद्यात्मक रचना के प्रति रुचि बढ़ गई।

B.A.I Sem.- II हिंदी गद्य साहित्य पेपर –II

Course Outcomes: After successful completion of this course, the students will be able to:

CO3: हिंदी के प्रतिनिधि गद्य रचनाकारों का परिचय हुआ।

CO4: निबंध, एकांकी, व्यंग्य तथा कहानी आदि विधाओं के माध्यम से विद्यार्थीयों की भावात्मक विकास हुआ।

B.A.II Sem.- III: अस्मितामूलक विमर्श और हिंदी गद्य साहित्य पेपर – III

Course Outcomes: After successful completion of this course, the students will be able to:

CO5: कथा साहित्य का स्वरूप, तत्व एवं प्रकारों की जानकारी प्राप्त हुई।

CO6: कथा और कथेत्तर साहित्य को वर्तमान प्रासंगिकता के साथ अवगत किया।

B.A.II Sem.- III हिंदी संत काव्य तथा राष्ट्रीय काव्यधारा पेपर – IV

Course Outcomes: After successful completion of this course, the students will be able to:

CO7: मध्यकालीन संत कवियों तथा आधुनिक हिंदी कविता की जानकारी प्राप्त हुई।

CO8: विद्यार्थियों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण हुई।

B.A.II Sem.- IV: हिंदी में रोजगार के अवसर पेपर – V

Course Outcomes: After successful completion of this course, the students will be able to:

CO9: हिंदी में रोजगार के अवसरों की जानकारी प्राप्त हुई।

CO10: विद्यार्थि रोजगार से आत्मनिर्भर होंगे।

B.A. II Sem.- अस्मितामूलक विमर्श और हिंदी पद्य साहित्य पेपर – VI

Course Outcomes: After successful completion of this course, the students will be able to:

CO11: ममता कालिया की व्यक्तित्व एवं कृतित्व की जानकारी प्राप्त हुई।

CO12: कितने प्रश्न करो खंडकाव्य को आज के समकालीन परिप्रेक्ष्य में अवगत कराया।

CO13: कितने प्रश्न करो खंडकाव्य के कथानक की जानकारी प्राप्त हुई।

B.A. III Sem.-V विधा विशेष का अध्ययन- (पेपर- 7) DSE- E 6

Course Outcomes: After successful completion of this course, the students will be able to:

CO14: नाटककार कुसुम कुमार के साहित्य से छात्र परिचित हुए।

CO15: दिल्ली ऊंचा सुनती है नाटक को समकालीन परिप्रेक्ष्य में अवगत कराया।

CO16: नाटककार कुसुम कुमार के विचारधारा की जानकारी मिली।

B.A. III Sem.-V साहित्यशास्त्र (पेपर- 8) DSE – E 7

Course Outcomes: After successful completion of this course, the students will be able to:

CO17: साहित्य की काव्य तत्वों की जानकारी मिली।

CO18: साहित्य निर्मिती प्रक्रिया से अवगत कराया।

CO19: अलंकारों की जानकारी प्राप्त हुई।

B.A. III Sem.-V हिंदी साहित्य का इतिहास (पेपर- 9) DSE – E 8

Course Outcomes: After successful completion of this course, the students will be able to:

CO20: आदिकालीन और भक्तिकालीन विभिन्न परिस्थितियों की जानकारी मिली।

CO21: आदिकालीन तथा भक्तिकालीन प्रमुख संत कवियों के रचनाओं से अवगत हुए।

B.A.III Sem.- V प्रयोजनमूलक हिंदी(पेपर-10) DSE – E 9

Course Outcomes: After successful completion of this course, the students will be able to:

CO22: छात्रों को पारिभाषिक शब्दावली और इलेक्ट्रॉनिक माध्यमों का परिचय हुआ।

CO23: रोजगार परक हिंदी भाषा की उपयोगिता से अवगत हुए।

B.A. III Sem-V भाषा विज्ञान और हिंदी भाषा (पेपर- 11) DSE – E 10

Course Outcomes: After successful completion of this course, the students will be able to:

CO24: भाषा के विविध रूपों का तथा मानक वर्तनी और व्याकरण से अवगत हुए।

CO25: हिंदी भाषा और हिंदी लिपि की जानकारी मिली।

B.A. III Sem-VI विधा विशेष का अध्ययन (पेपर- 12) DSE E 131

Course Outcomes: After successful completion of this course, the students will be able to:

CO26: चंद्रकांता के व्यक्तित्व एवं कृतित्व का परिचय हुआ।

CO27: अंतिम साक्ष्य उपन्यास को समकालीन परिप्रेक्ष्य में प्रस्तुत किया।

CO28: उपन्यास की तात्विक स्वरूप की जानकारी मिली।

B.A. III Sem-VI साहित्यशास्त्र और हिंदी आलोचना (पेपर- 13) DSE – E 132

Course Outcomes: After successful completion of this course, the students will be able to:

CO29: साहित्यशास्त्र के अंगो का परिचय हुआ।

CO30: आलोचना के गुण और विशेषताओं की जानकारी मिली।

CO31: काव्यशास्त्र को लेकर भारतीय चिंतन का परिचय प्राप्त करते हैं।

B.A. III Sem-VI हिंदी साहित्य का इतिहास (पेपर- 14) DSE – E 133

Course Outcomes: After successful completion of this course, the students will be able to:

CO32: रीतिकाल और आधुनिक काल के परिस्थिति और नामकरण की जानकारी मिली।

CO33: युग प्रवर्तक साहित्यकार और गद्य साहित्य से अवगत हुए।

CO34: हिंदी के गद्य के विभिन्न विधाओं और रीतिकालीन साहित्य से परिचित हुए हैं।

B.A.III SEM-VI प्रयोजनमूलक हिंदी (पेपर-15) DSE– E 134

Course Outcomes: After successful completion of this course, the students will be able to:

CO35: पारिभाषिक शब्दावली तथा जनसंचार माध्यमों का परिचय हुआ।

CO36: अनुवाद के विविध अंगो की जानकारी मिली।

CO37: समकालीन समय में अनुवाद की उपयोगिता को अवगत कराया ।l

B.A. III SEM-VI भाषा विज्ञान और हिंदी भाषाI (पेपर- 16) DSE – E 135

Course Outcomes: After successful completion of this course, the students will be able to:

CO38: भाषा की वैज्ञानिकता से परिचित हुए।

CO39: भाषा विज्ञान के प्रधान अंगों की जानकारी मिली।

CO40: भाषा की शुद्धता के प्रति विद्यार्थी जागृत हुए।

Department of Marathi

Course outcomes (Co's)

Course: 1) - आवश्यक अनुषंगिक निवड (CGE - 1): मराठी "शब्दसंहिता" - अ.

Co1: - विद्यार्थ्यांची मराठी भाषा आणि साहित्यविषयी अभिरुची विकसित झाली.

Co2: - मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय झाला.

Course: 2) - आवश्यक अनुषंगिक निवड (CGE -2): मराठी "शब्दसंहिता" - ब.

Co3: -. विद्यार्थ्याचा व्यक्तिमत्व विकास घडून विविध स्पर्धा परीक्षांची तयारी करता आली.

Co4: -. निबंध लेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करता आली.

Course: 3) - विद्याशाखीय विशेष गाभा (DSC-A1): मराठी "अक्षरबंध". - १.

Co5: - भास्कर चंदनशिव यांच्या निवडक कथांचे आकलन करता आले.

Co6: - चित्रपट माध्यमाविषयी ज्ञान संपादन करता आले.

Course :4) - विद्याशाखीय विशेष गाभा (DSC-A13): मराठी "अक्षरबंध". - २.

Co7: - लोकनाथ यशवंत यांच्या निवडक कवितेचे आकलन करता आले.

Co8: - वृत्तपत्रीय लेखनातील - बातमी, अग्रलेख, वाचकांचा पत्रव्यवहार, नाटक /चित्रपट परीक्षण याविषयी ज्ञान संपादन करता आले.

Course: 5) - विद्याशाखीय विशेष गाभा (DSC-III) :"साहित्यकृती : देवबाभळी" (नाटक): मराठी भाषिक कौशल्य.- ३.

Co9: - नाटक या वांङ्मयप्रकाराचे आकलन होऊन नाट्याभ्यासाद्वारे प्रयोगरुप नाटक व नाट्यक्षेत्रातील ज्ञान संपादन करता आले.

Co10: - विद्यार्थ्यांमध्ये संवाद लेखन कौशल्य विकसित झाली.

Course: 6) - विद्याशाखीय विशेष गाभा (DSC- IV): " साहित्यकृती: पक्ष्यांचे लक्ष थवे " मराठी भाषिक कौशल्य - ४.

Co11: - मराठी काव्यपरंपरा व प्रवाहांची ओळख करून घेता आली.

Co12: - प्रात्यक्षिकाद्वारे काव्यलेखन कौशल्ये विकसित झाली.

Course: 7) -विद्याशाखीय विशेष गाभा (DSC- V) "साहित्यकृती: चांदण्यात भिजायचं राहून जाऊ नये म्हणून! "

(ललितगद्य): मराठी भाषिक कौशल्य.

Co13: - ललितगद्य या वांङ्मयप्रकाराची ओळख करून ललितगद्याची लेखन कौशल्ये विकसित करता आली.

Co14: - ललितगद्य आणि इतर वांङ्मयप्रकार यातील फरक समजून घेता आला. ललित गद्याच्या परंपरेचे आकलन करुण घेता आले. ललित गद्याची अभिव्यक्त करुण घेता आले.

Course: 8) - विद्याशाखीय विशेष गाभा (DSC- VI) "साहित्यकृती: बनगरवाडी " (कादंबरी): मराठी भाषिक कौशल्ये.

Co15: - कादंबरी वांङ्मय प्रकाराची ओळख झाली व कादंबरी लेखनाचे स्वरूप, परंपरा, प्रवृत्ती व प्रवाह यांचे ज्ञान झाले.

Co 16: - रिपोर्ताजलेखनाची कौशल्ये विकसित झाली.

Course: 9) -विद्याशाखीय विशेष निवड (DSE-E1) "साहित्यविचार" - VII.

Co17: - पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजले आणि साहित्याची निर्मितीप्रक्रिया व त्याचे स्वरूप याविषयी आकलन झाले.

Co18: - ललित व ललितेतर साहित्याचे स्वरूप साहित्याचे प्रयोजन आणि भाषेतील अलंकार समजून घेता आले.

Course: 10) - विद्याशाखीय विशेष निवड (DSE- E2) "मराठी भाषा व भाषाविज्ञान"- VIII.

Co19: - भाषोत्पत्ती संबंधित ज्ञान भाषाविज्ञानाचा परिचय व भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेता आला

Co20: - मराठी भाषेविषयी विद्यार्थ्यांची आवड विकसित होऊन स्वनविचार, रुपविचार व वाक्यविचारांचा परिचय झाला.

Course: 11) - विद्याशाखीय विशेष निवड (DSE- E3) "मध्ययुगीन मराठी वांङ्मयाचा इतीहास (प्रारंभ ते इ.स.१५००)" - IX

Co21: - मध्ययुगीन मराठी वांङ्मयाचे स्वरूप, वैशिष्ट्यांसह स्थूल परिचय होऊन कालिक भेद लक्षात आले.

Co22: - मध्ययुगीन मराठी वांङ्मयातील महत्त्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय होऊन मध्ययुगीन मराठी वांग्मयाच्या गद्य, पद्य रचनेचे विशेष लक्षात आले

Course: 12) - विद्याशाखीय विशेष निवड (DSE- E4) "मराठी भाषा व अर्थार्जनाच्या संधी"- X.

Co23: - सर्जनशील लेखन प्रक्रिया समजून वैचारिक लेखनाचे स्वरूप व वैशिष्ट्ये याविषयी ज्ञान प्राप्त झाले.

Co24: - शोधनिबंध व प्रकल्पलेखन कौशल्ये विकसित होऊन आंतरजालावरील मराठी लेखनपद्धतीविषयी ज्ञान संपादन झाले.

Course: 13) -विद्याशाखीय विशेष निवड (DSE- E5) वांङ्मयप्रवाहाचे अध्ययन: मध्ययुगीन, (दृष्टांतपाठ निवडक दृष्टांत (संपा.) - XI.

Co25: - मध्ययुगीन महाराष्ट्र व महानुभावी वांग्मयाची प्रेरणा व स्वरूप समजून घेतले.

Co26: - महानुभावीय ग्रंथकार केसोबास यांचा परिचय झाला व दृष्टांतपाठातील आशयस्वरूप, अभिव्यक्तीविशेष आणि भाषिक - वैभवाचे ज्ञान मिळाले.

Course :14) - विद्याशाखीय विशेष निवड (DSE- E126) "साहित्यविचार" - XII.

Co27: - शब्दशक्ती, रसविचार, काव्यानंदमिमांसा व साहित्याची भाषा याविषयी ज्ञान प्राप्त झाले.

Co28: - भाषेतील छंद व वृत्ते यांचा परिचय झाला.

Course: 15) - विद्याशाखीय विशेष निवड (DSE - E127) "मराठी भाषा व भाषाविज्ञान" -XIII.

Co29: - मराठी भाषेची वर्णव्यवस्था समजून घेऊन ध्वनि व अर्थ परिवर्तनाची कारणे व प्रकार यांची माहिती मिळाली.

Co30: - प्रमाणभाषा व बोलीभाषेचे स्वरूप - विशेष समजून घेता आले.

Course: 16) - विद्याशाखीय विशेष निवड (DSE - E128) "मध्ययुगीन मराठी वांग्मयाचा इतिहास

(इ.स.१५०० ते इ.स. १८००)" -XIV.

Co31: - मध्ययुगीन मराठी वांङ्मयातील पंडित कवी व त्यांची रचना याविषयी ज्ञान प्राप्त झाले.

Co32: - बखरवांङ्मय आणि शाहिरीवांग्मयाचे स्वरूप - विशेष यांचे ज्ञान प्राप्त झाले.

Course: 17) -विद्याशाखीय विशेष निवड (DSE-E129) " मराठी भाषा व अर्थार्जनाच्या संधी" -XV.

Co33: - प्रसारमाध्यमातील अर्थार्जनाच्या संधी, मुद्रितशोधनाची पद्धत आणि भाषिक कौशल्य यांचा परिचय झाला.

Co34: - स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून; उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन केले.

Course: 18) - विद्याशाखीय विशेष निवड (DSE -E130)

वांङ्मय प्रकाराचे अध्ययन: ललित गद्य,(व्यक्तिचित्रे) : " मुलखावेगळी माणसं".(संपा)

Co35: - ललित गद्य वांङ्मयप्रकाराचे स्वरूप आणि व्यक्तिचित्र संकल्पना व स्वरूप समजून घेतले.

Co36: - 'मुलखावेगळी माणसं' मधील शैक्षणिक, सामाजिक, संस्कृतीक, राजकीय पर्यावरण व कौटुंबिक भावविश्व तसेच; ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन झाले.

Department of Geography

Course 1:- B. A. I DSE – 1 Physical Geography

At the end of this course students will be able to,

CO1: know the latest concepts in Physical Geography (continental drift, plate tectonic, cycle of erosion).

CO2: understand the Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere and the work of denudation agents and their associated landforms and the interior structure of the earth.

Course 2: B. A. I DSE – 2 Human Geography

At the end of this course students will be able to,

CO3: Student should know human races, population composition and different population theories.

CO4: To Examine patterns of settlement and the agricultural types, problems and prospects.

Course 3: B.A. II DSE - 3 Soil Geography

At the end of this course students will be able to,

CO5: soil processes, soil formation and soil properties.

CO6: understand the classification, characteristics and distribution of soils.

Course 4: B.A. II DSE - 4 Resource Geography

At the end of this course students will be able to,

CO7: understands the concept of resource and studies the classification, examine the major resources.

CO8: knows the sustainable resource development.

Course 5: B.A. II Geography DSE - 5 OCEANOGRAPHY

At the end of this course students will be able to,

CO9: The students familiarize with the basic and fundamental concepts of oceanography a branch of Physical Geography.

CO10: With this study, students understand marine is key resource for the development of any country and to know physical and chemical properties of oceans.

Course 6: B.A. II Course – 6 Agricultural Geography At the end of this course students will be able to,

CO11: understand the role of agricultural determinants towards the changing cropping pattern.

CO12: understand agricultural concepts and modern technologies used in agriculture, implementation of the Green Revolution in India.

Course 7: B.A. II IDS GE I - Introduction to Tourism Geography

At the end of this course students will be able to,

CO13: familiarize with logistics of tourism and the role of tourism in regional development.

CO14: know tourism industry and impact of tourism on environments and to familiarize the students with local, regional and national tourism.

Course 8: B.A. II IDS GE II - Tourism in India

At the end of this course students will be able to,

CO15: Understand the development of tourism in the India and knowledge of natural, religious, cultural and historical tourism in India.

CO16: To understand about development and planning of tourism in Maharashtra

B.A. III Course Outcomes of Geography:

Course 9: Physical Geography of India

At the end of this course students will be able to,

CO17: Understanding physical setup of the country

CO18: Student will be able to understand climate of India

Course 10: POPULATION GEOGRAPHY

At the end of this course students will be able to,

CO 19: gets an understanding of distribution and trends of population growth in the developed

and less developed countries, along with population theories.

CO 20: an understanding of the dynamics of population, the implications of population composition in different regions of the world, An appreciation of the contemporary issues in the field of population studies

Course 11: Economic Geography

At the end of this course students will be able to,

CO21: Understand basic concept in economic geography and the relationship between human activities and resources.

CO22: Understand the economic situation at global level and apply this knowledge at local level.

Course 12: Economic Geography of India

At the end of this course students will be able to,

CO23: Understand economic set up of the country and primary activities products (agricultural and mining) and secondary activates (industry) in India

CO24: Get knowledge about transportation network of India. e.g. Roadways, waterways and Airways.

Course 13: Urban Geography

At the end of this course students will be able to,

CO25: Understood the basic concepts in urban Geography

CO26: Understand the impact of site and situation on settlements & types of urban and rural settlements.

Course 14: Political Geography

At the end of this course students will be able to,

CO27: Understand how and why states are organized.

CO28: Learn the relation between government and its people and the influence of political power on geographical space.

Course 15: Map work and Map Reading

At the end of this course students will be able to,

CO29: Learn the importance of map making and map reading

CO 30: Understand the concept of scale and map projections.

Course 16: Advanced Techniques and Field work.

At the end of this course students will be able to,

CO 31: Be able to understand the importance of field work and use of advanced techniques (GIS & GPS) in Geography

CO32: Learn how to analyse Geographical data with the help of computer.

Course 17: B. Sc. I DSC- 19 A : Physical Geography- I

At the end of this course students will be able to,

CO1: Student should know the latest concepts in Physical Geography (continental drift, plate tectonic, cycle of erosion).

CO2: denudation agents and their associated landforms and the interior structure of the earth.

Course 18: B. Sc. I DSC-19 B : Human Geography-I

At the end of this course students will be able to,

CO3: Student should know human races, population composition and different population theories.

CO4: To Examine patterns of settlement and the agricultural types, problems and prospects.

Course 19: B. Com. I Commercial Geography (AECC-C)

At the end of this course students will be able to,

CO1: Student should study the conservation of recourses and sustainable economic development.

CO2: To understand economic activates and to study the globalization and Indian economic.

Course 20: B. Com. I – Introduction to Marketing Geography(AECC-C)

At the end of this course students will be able to,

CO3: To understand the marketing Geography, market System,

CO4: They should understand the Agricultural marketing and Tourism Marketing in India.

Department of Economics

Sem.- I Indian Economy Paper - I

Course Outcomes: After successful completion of this course, the students will be able to:

CO1: Understand nature and characteristics of Indian economy.

CO2: Know growth, feature and impact of Indian population.

Sem.- II Indian Economy Paper - II

Course Outcomes: After successful completion of this course, the students will be able to:

CO3: Understand role of agriculture and industrial sector in process of economic development.

CO4: Know role of service sector in process of economic development and implementation and impact of economic reforms

Sem.- III: Macro Economics-I Paper –III

Course Outcomes: After successful completion of this course, the students will be able to:

CO5: Realize macro-economic variables, macro-economic theories of output and employment.

CO6: Analyse impact of change in general price level and consumption and investment function.

Sem.- III Money and Banking Paper No. – IV

Course Outcomes: After successful completion of this course, the students will be able to:

CO7: Understand Indian financial market and the practical banking

CO8: Understand the organise structure and function of Reserve Bank of India and banking practices in India

B.A.II Sem.- IV: Macro Economics-II Paper – V

Course Outcomes: After successful completion of this course, the students will be able to:

CO9: Understands phases of business cycle and Expresses public finance and economic development.

CO10: Explains export, import and foreign trade deficit and balance of payment concepts.

B.A. II Sem.- IV Money and Banking Paper – VI

Course Outcomes: After successful completion of this course, the students will be able to:

CO11: Know Indian Financial System and Financial Institutions.

CO12: Know Banking Reform such as Narasimha Committee, IDF in banking, Payment Bank, Small Finance Bank and E- banking services.

B.A. III Sem.-V Principles of Micro Economics- I (EC- 7) DSE E-71

Course Outcomes: After successful completion of this course, the students will be able to:

CO13: Understand consumer decision making, consumer behaviour and the concept of utility and satisfaction

CO14: Derive revenue and cost figures as well as curves and production

B.A. III Sem.-V Economics of Development (EC- 8) DSE – E - 72

Course Outcomes: After successful completion of this course, the students will be able to:

CO15: Identify the dimensions of development

CO16: Know the theories of economic development and realise the role of state in economic development

B.A. III Sem.-V International Economics- I (EC- 9) DSE – E 73

Course Outcomes: After successful completion of this course, the students will be able to:

CO17: Explain international trade and the measurement of gains from international trade

CO18: Distinguish different rates of exchange and measure the terms of trade

B.A. III Sem.-V Research Methodology in Economics-I (EC-10) DSE – E 74

Course Outcomes: After successful completion of this course, the students will be able to:

CO19: Get acquainted with the basic concepts of research and its methodologies.

CO20: Select and define appropriate research problem and parameters.

B.A. III Sem-V History of Economic Thoughts- I (EC- 11) DSE – E 75

Course Outcomes: After successful completion of this course, the students will be able to:

CO21: Understand the basic economic ideas of various economic thinkers of the world **CO22**: Understand the development of economic thoughts

B.A. III Sem-VI Principles of Micro Economics- II (EC- 12) DSE E 196

Course Outcomes: After successful completion of this course, the students will be able to:

CO23: Identify the market structure and analyse the economic behaviour of individual firms and markets

CO24: Analyse a firm's profit maximising strategies under different market conditions and the factor pricing

B.A. III Sem-VI Economics of Planning (Elective Course- 13) DSE – E 197

Course Outcomes: After successful completion of this course, the students will be able to:

CO25: Get acquainted with economic planning and its importance in development and planning machinery in India

CO26: Evaluate sectorial performance of the Indian economy and compare and analyse Indian models of economic development

B.A. III Sem-VI International Economics- II (EC- 14) DSE – E 198

Course Outcomes: After successful completion of this course, the students will be able to:

CO27: Distinguish between balance of trade and balance of payments, analyse the balance of payments

CO28: Understand the various types of foreign capital and the impact of international institutions on Indian economy

B.A.III SEM-VI Research Methodology in Economics-II (EC-15)DSE–E - 199

Course Outcomes: After successful completion of this course, the students will be able to:

CO29: Understand the sampling techniques as a method of data collection and use techniques of data analysis in research

CO30: Write a research report, thesis and a research proposal

III SEM-VI History of Economic Thoughts- II (EC- 16) DSE – E 200

Course Outcomes: After successful completion of this course, the students will be able to:

CO31: Understand the economic concepts and theories of Neo-Classical and Indian thinkers.

CO32: Understand the development of economic thoughts.

Department of Sociology

Course Outcomes

B.A.I Sem.- I Introduction to Sociology Paper –I

Course Outcomes: After successful completion of this course, the students will

be able to:

CO1: Understand nature and characteristics of Sociology

CO2: Know development, feature and concept of Sociological

B.A.I Sem.- II Applied Sociology Paper –II

Course Outcomes: After successful completion of this course, the students will

be able to:

CO3: Understand theoretical approaches in Sociology

CO4: Know Mass Media, social change and social movements, application sociology as profession and career opportunities sector in process of social development and implementation for social reforms

B.A.II Sem.- III: Social issues in India-I Paper –III

Course Outcomes: After successful completion of this course, the students will be able to:

CO5: Realize social cultural issues variables, Poverty and Unemployment of social economic issues, Human rights and cybercrime of social legal issues.

CO6: Analyse impact of change in social issues, social cultural issues and social legal issues level.

B.A.II Sem.- III Social Movement in India-I No. – IV

Course Outcomes: After successful completion of this course, the students will

be able to:

CO7: Understand Social movement in India

CO8: Understand the organise, major types and impacts of social movements in India

B.A.II Sem.- IV: Gender and Violence -II Paper – V

Course Outcomes: After successful completion of this course, the students will

be able to:

CO9: Understands meaning, nature major issues of Gender violence development.

CO10: Explains nature and remedies of violence against different women movements. nature types and acts of women's harassment at workplace

B.A. II Sem.- IV Sociology of Health Paper – VI

Course Outcomes: After successful completion of this course, the students will

be able to:

CO11: Know introduction of sociology of Health and major diseases in India.

CO12: Explain lifestyle and remedies on health problems and health polices in India.

B.A. III Sem.-V Western Sociological Thinkers VI (E- 66) DSE – E - 66

Course Outcomes: After successful completion of this course, the students will be able to:

CO15: understanding western sociological thinkers to enable them to apply theories to their own everyday life experiences.

CO16: Know the theories of sociological imagination and the capacity to read each situation sociologically and then to think and applicability about it theoretically

B.A. III Sem.-V Methods of Social Research-VII(E- 67) DSE – E 67

Course Outcomes: After successful completion of this course, the students will be able to:

CO17: Understanding introduction to methodologies of sociological research

CO18: Explain elementary knowledge of the complexities and philosophical underpinnings of research.

B.A. III Sem.-V Political Sociology- IX (E-68) DSE – E 68

Course Outcomes: After successful completion of this course, the students will

be able to:

CO19: Get acquainted major concepts, theoretical approaches of political

sociology.

CO20: Explain apply this concept in Indian political process and institutions also to exposes emerging perspective on political society relationship in contemporary time.

B.A. III Sem-V Human Rights- X(E- 169) DSE – E 69

Course Outcomes: After successful completion of this course, the students will be able to:

CO21: Understand the basic concept of human rights and also nature and role of human rights in India.

CO22: Explain the violation of Human rights in India.

B.A. III Sem-V Sociology of Religion- XI(E- 70) DSE E 70

Course Outcomes: After successful completion of this course, the students will be able to:

CO23: Exposes to distinctiveness of sociological approaches to the study of religion. and also, basic theoretical and methodological study on religion.

CO24: Analyse some aspects of religious phenomenon in contemporary time such as secularization and multiculturalism.

B.A. III Sem-VI Indian Sociological Thinkers (E191) DSE – E 191

Course Outcomes: After successful completion of this course, the students will be able to:

CO25: Understanding Indian sociological thinkers and apply theories to their own Indian social life experiences, and also read and think each situation sociologically

CO26: Analyse imperative that sociological theory courses demonstrate the applicability.

B.A. III Sem-VI Methods of Social \Research - II (EC- 192) DSE – E 192

Course Outcomes: After successful completion of this course, the students will be able to:

CO27: Distinguish introductory comprehensive engagement with social research. Theoretical and practical knowledge about different stages of research process like creation of research design, methods of data collection and analysis.

CO28: Understand both qualitative and quantitative research important knowledge and training.

B.A.III SEM-VI Social Anthropology XIV (E-193)DSE–E - 193

Course Outcomes: After successful completion of this course, the students will

be able to:

CO29: Understand the conceptual knowledge about anthropology.

CO30: Explain the social aspects of tribal's in India.

B.A. III SEM-VI Rural Sociology - XV(E - 194) DSE – E 194

Course Outcomes: After successful completion of this course, the students will be able to:

CO31: Understand foundational material practices and formation of social collectivises and make sense of South Asia agrarian society, also with rural situation past and present with theoretical and practical knowledge.

CO32: Explain sense of rural communication, their structure, transformation and trials and tribulations in modern world. also, legacy of theoretical and empirical work on rural sociology and its continued relevance.

B.A. III SEM-VI Urban Sociology - XVI(E - 195) DSE – E 195

Course Outcomes: After successful completion of this course, the students will be able to:

CO31: Understand is an important aspect of urban society with key theoretical perspectives and historical and contemporary contexts and also urban living narrating subjunctive experience of urban communities with case studies in India.

CO32: Evolve critical thinking and develop a policy perspective on urban society.

Department of History

B.A.I (Sem. I)

Course 1: Rise of the Maratha Power (1600-1707) (I) DSE

CO 1.1: To describe fundamentals causes of rise of Maratha power.

CO 1.2: To discuss the Chhatrapati Shivaji Maharaja's achievement till 1664.

CO 1.3: To discuss the Chhatrapati Shivaji Maharaja's achievement till 1680.

B.A.I (Sem. II)

Course 2: Polity, society and Economy under the Marathas (1600-1707) (II) DSE2

CO 2.1: Describe the forts from multiple viewpoints- as sources of history, as centres of control, as sites of historical events, and as heritage sites.

CO 2.2: To explain history of the rise of Maratha power with main emphasis on life and work of Chhatrapati Shivaji Maharaj.

CO 2.3: The course is also expected to apprise the students with the sacrifices made by Maratha leaders and people to protect freedom and sovereignty of the region.

B.A.II (Sem. III)

Course 3: History of Modern Maharashtra (1900 to 1960) (III) DSC

CO 3.1: Explain the beginnings and growth of nationalist consciousness in Maharashtra.

CO 3.2: Explain the contribution of Maharashtra to the national movement.

CO 3.3: Give an account of various movements of the peasants, workers, women and backward classes

B.A.II (Sem. III)

Course 4: History of India (1757-1857) (IV) DSC

CO 4.1: Describe the significant events leading to establishment of the rule of East India company.

CO 4.2: Tell the colonial policy adopted by the company to consolidate its rule in India.

CO 4.3: Find the structural changes initiated by colonial rule in Indian Economy.

B.A.II (Sem. IV)

Course 5: History of Modern Maharashtra (1960-2000) (V) DSC

CO 5.1: This was also a period of massive expansion of education as well as social transformation.

CO 5.2: Tell the students to significant leaders, events and transformations in history of Maharashtra.

CO 5.3: Explain the contribution of eminent leaders of Maharashtra.

B.A.II (Sem. IV)

Course 6: History of India (1858-1947) (VI) DSC

CO 6.1: Explain the events which lead to the growth of nationalism in India

CO 6.2: To categorized the major events of the freedom struggle under the leadership of Mahatma Gandhi.

CO 6.3: Explain the contribution of Revolutionaries, Left Movement and Indian National Army.

B.A.III (Sem. V)

Course 7: Early India (from beginning to 4th c. BC) VII) DSC

CO 7.1: Evaluate the transition of humans in India from Hunters to Farmers.
CO 7.2: Explain the transition from Early to Later Vedic period.
CO 7.3: Categorises the causes for the first and second urbanizations.

B.A.III (Sem. V)
Course 8: History of Medieval India (1206-1526 AD) (VIII) DSE
CO 8.1: Asses the fundamental changes in policy, society, religion and culture of India.
CO 8.2: To compare historiography on political structures and cultures across different realms of the Rajput's, Delhi Sultanate.
CO 8.3: Describe the different types of historical sources available for writing the history of medieval India.

B.A.III (Sem. V)
Course 9: Age of Revolutions (IX) DSC
CO 9.1: Explain the causes and consequences of the Reformation.
CO 9.2: Discover the role played by Martin Luther.
CO 9.3: Discusses the salient features of the Industrial revolution.

B.A.III (Sem. V)
Course 10: Political History of the Marathas (X) DES-E-230
CO 10.1: Explain the political condition up to 1740
CO 10.2: To tell the role of Peshawa Madhavrao, Mahadaji Shinde and Nana Saheb Peshawa.
CO 10.3: Describe the role of Agriculture and Industries Trade in economic development.

B.A.III (Sem. V)
Course 11: History: Its Theory (XI) DSE
CO 11.1: Explain the definition and Scope of the subject of History.
CO 11.2: Describe the process of acquiring historical data.
CO 11.3: Evaluate the methods of writing history.

B.A.III (Sem.VI)
Course 12: Ancient India (From 4th c. BC to 7th c. AD) (XII) DSC
CO 12.1: To describes the fundamentals of Ancient Indian History.
CO 12.2: Explain the great kings in Ancient India.
CO 12.3: Give the political, economic and religious developments which took place in early historic India.

B.A.III (Sem.VI)
Course 13: History of Medieval India (1526-1707 AD) (XIII) DSE
CO 13.1: Identify the various sources for writing Medieval Indian history.
CO 13.2: Explain important developments in religion, society and culture.
CO 13.3: Describe the condition of Industry and trade.

B.A.III (Sem.VI)
Course 14: Making of the Modern World (16th to 19th Century) (XIV)
CO 14.1: Describe the causes and consequences of the glorious revolution in England
CO 14.2: Explain the concept of Nationalism and account for its rise and spread.
CO 14.3: Describe the unification of Italy and Germany.

B.A.III (Sem.VI)
Course 15: Polity, Economy and Society under the Marathas (XV) DSE
CO 15.1: Describe the various sources for writing the history of the Marathas
CO 15.2: Explain the significant developments in the polity of the Marathas
CO 15.3: Describe the economic conditions

B.A.III (Sem.VI)
Course 16: Methods and Applications of History (XVI) DSE
CO 16.1: Explain the nature of archival sources
CO 16.2: Define the conceptual clarity about recent trends in history.
CO 16.3: Describe about the application of history in museums.

Department of Political Science

Course Outcomes (CO's)

Course 1: Introduction to Political Science

After successfully completing this course, the student will be able to:

CO1.1: Understands the meaning, nature, scope and the Sub-disciplines of Political Science.

CO1.2: Getting the meaning, features and importance of State & Democracy with key concepts.

Course2: Indian Constitution

After successfully completing this course, the student will be able to:

CO 2.1: Acquiring knowledge of historical background, basic features &Philosophy of Indian Constitution.

CO 2.2: Knowing legislative, executive functions of India & Procedure of judiciary.

Course 3: Political Process in India

After successfully completing this course, the student will be able to:

CO 3.1: Students will understand Indian Federalism & Centre-State relations.

CO 3.2: Understands electoral process, party system in India &various issues in Indian politics.

Course 4: Indian political Thought Part-I

After successfully completing this course, the student will be able to:

CO 4.1: The students will understand Political views of Kautilya& Mahatma Phule.

CO 4.2: Students will be able to understand political thoughts of Ranade& Tilak.

Course 5: Public Administration

After successfully completing this course, the student will be able to:

CO 5.1: Getting knowledge about public & private administration and principles & units of organization.

CO 5.2: Students will come to know various aspects of public corporations and changing perspectives in public administration.

Course 6: Local Self Government in Maharashtra

After successfully completing this course, the student will be able to:

CO 6.1: To know about Historical Background of Local Self Government.

CO 6.2: Getting basic knowledge of Rural Local Self Government Urban Local Self Government.

Course 7: Indian political Thought Part-II

After successfully completing this course, the student will be able to:

CO 7.1: To understand various Gandhian concepts.

CO 7.2: To know Jawaharlal Nehru, Ambedkar & Roy.

Course 8: Public Administration

After successfully completing this course, the student will be able to:

CO 8.1: Students will understand both personnel level administration and financial administration in India.

CO 8.2: To understand delegated legislation, new trends in public administration.

Course 9: Political Theory

After successfully completing this course, the student will be able to:

CO 9.1: Getting basic knowledge & approaches of Political Theory. Knowing Behavioural movement in Political Science.

CO 9.2: Acquiring knowledge about concepts of Power, Authority and Legitimacy.

Course 10: Public Administration

After successfully completing this course, the student will be able to:

CO 10.1: Acquiring information about various concepts in Public Administration &Getting knowledge about Organization, its Bases, Principles and Units.

CO 10.2: Understanding the interface between citizens & Public Administration and other agencies in society and Public Administration.

Course 11: International politics

After successfully completing this course, the student will be able to:

CO 11.1: Getting acquainted with the concepts and dimension of International Politics.

CO 11.2: To know the working of international and regional organizations and the new world order that emerged after the end of cold war.

Course 12: Comparative Politics

After successfully completing this course, the student will be able to:

CO 12.1: Students will be familiar with basic theory of comparative politics& be able to understand constitutionalism, federalism.

CO 12.2: Students shall understand party system and pressure groups and its functioning.

Course 13: Western political Thought I

After successfully completing this course, the student will be able to:

CO 13.1: Students will get acquainted with the western tradition from Plato to Rousseau.

CO 13.2: Students will understand the evolution of western Political idea &be able to study historical aspects of western state and society.

Course 14: Modern Political Concepts

After successfully completing this course, the student will be able to:

CO 14.1: Student will know modern concepts such as Feminism, Multiculturalism, Environmentalism and Civil Society etc.

CO 14.2: This will enable students to have comprehensive idea of contemporary scenario in political science.

Course 15: Politics and Movements in Maharashtra

After successfully completing this course, the student will be able to:

CO 15.1: Student will know the Political System and the process of formation of Maharashtra.

CO 15.2: Student will know the movements, pressure groups and political parties in Maharashtra.

Course 16: Foreign Policy of India

After successfully completing this course, the student will be able to:

CO 16.1: Student will understand, 'what is the foundation adjectives Foreign Policy'.

CO 16.2: Student will come to know India's relation with super powers and neighbouring countries.

Course 17: Comparative Government (With special reference to UK & USA)

After successfully completing this course, the student will be able to:

CO 17.1: To familiarizes students with composition, functions, and law-making process of legislative bodies in UK and USA.

CO 17.2: To introduce the Judicial System and the role of Pressure Groups in the Politics of UK and USA.

Course 18: Western Political Thought- II

After successfully completing this course, the student will be able to:

CO 18.1: The students will understand Political views of J. S. Mill, Karl Marx, Gramsci& Hannah Arendt

CO 18.2: The students will get acquainted with various aspects of state and society with western perspective.

Department of Psychology

Course 1: Foundations of Psychology

After successfully completing this course students will be able to:

CO 1: Understand the field of Psychology, Perception and Sleep.

CO 2: Grasp Learning and Memory Processes.

Course 2: General Psychology

After successfully completing this course students will be able to:

CO 3: Know the concepts of Intelligence and Motivation.

CO 4: Comprehend the concepts of Emotion and Personality.

Course 3: Psychology for Living

After successfully completing this course students will be able to:

CO 5: Familiar with the nature of Psychology for Living.

CO 6: Know the nature of Better Health, Stress, Mental Disorders and Helping Behaviour.

Course 4: Social Psychology

After successfully completing this course students will be able to:

CO 7: Aware with the nature of Social Psychology.

CO 8: Get knowledge of the concepts of Social Perception, Self and Attitude.

Course 5: Modern Social Psychology

After successfully completing this course students will be able to:

CO 9: Understand the concepts of Liking (Attraction) and Social Influence.

CO 10: Grasp the Pro-social Behaviour and Aggression.

Course 6: Applied Psychology

After successfully completing this course students will be able to:

CO 11: Familiar with the Applications of the psychology in Personal control, Decision Making, Personal growth, At Work and Leisure.

CO 12: Apply the skills in Making and keeping friends and Love and Commitment.

Course 7: Cognitive Psychology

After successfully completing this course students will be able to:

CO 13: Aware the approaches to Human Cognition, Visual Perception and Attention.

CO 14: Grasp the processes of Memory, Emotions and Consciousness.

Course 8: Cross-Cultural Psychology

After successfully completing this course students will be able to:

CO 15: Get knowledge the field of Cross-cultural Psychology and Key Concepts.

CO 16: Understand the concepts of Ethics, Emic, Ethnocentrism and Indigenous Psychology, Culture and Intelligence, Prejudice and Parental Practices, Culture and Abnormality.

Course 9: Psychopathology

After successfully completing this course students will be able to:

CO 17: Familiar with the field of Psychopathology and Perspectives of Psychopathology.

CO 18: Understand the nature of Anxiety disorder, OCD, Mood Disorder and Suicide.

Course 10: Current Trends in Psychology

After successfully completing this course students will be able to:

CO 19: Aware with the emerging new trends in Psychology.

CO 20: Grasp and learn more about Health, Criminal and Cyber Psychology.

Course 11: Practical (Experiments)

After successfully completing this course students will be able to:

CO 21: Familiar with Psychological Experiments and some Statistical methods.

CO 22: Learn the skills for conducting experiments and writing their reports.

Course 12: Psychological Testing

After successfully completing this course students will be able to:

CO 23: Comprehend the field of Psychological Testing in general.

CO 24: Know the nature and uses of Intelligence, Achievement and Personality tests.

Course 13: Counselling Psychology

After successfully completing this course students will be able to:

CO 25: Get knowledge of the field of Counselling Psychology.

CO 26: Apply the skills in the field of Career, School and College counselling.

Course 14: Developmental Psychology

After successfully completing this course students will be able to:
CO 27: Aware with the field of Lifespan Developmental.

CO 28: Understand the nature and processes in the Infancy, Childhood, Adolescence and Adulthood period.

Course 15: Psychology of Organizational Behaviour

After successfully completing this course students will be able to:

CO 29: Familiar with the field of Organizational Behaviour.

CO 30: Comprehend the nature and importance of Personality, Job satisfaction, Leadership, Group Behaviour and Organizational Change.

Course 16: Practical (Psychological Tests)

After successfully completing this course students will be able to:

CO 31: Get Knowledge of the Psychological tests and some statistical methods.

CO 32: Learn the skills for administering Psychological Tests and writing their reports.

Department of Physical Education

After Successful Completion of the Course a student will be able to:

Introduction of Physical Education and Sports

CO1. To make the student aware of the true meaning and definition of Physical Education and Sports.

CO2. To acquaint the student regarding the aim and objective of physical education.

CO3. To enable the student to understand the modern concept / trend of physical education.

CO4. To help the student familiarize with the scope of physical education.

CO5. To analyse the nature of physical education as to whether it is an art or a science.

CO6. Student will be able to understand Physical fitness, concept of Balance Diet. And Bad Habits with Special reference to Physical Finesses Alcohol and Tobacco.

CO7. To understand Kinds of body Posture, Characteristics of good body posture And Physical Differences between two sexes with reference to Physical performance-strength, speed, endurance, Agility, Flexibility etc.

History of Physical Education

CO1. To understand Physical Education Periods Advent of Aryans 2000 B.C. (Early Period), Epic Age 1500
B.C. to 500 B.C. and Buddhist Period in Ancient India With reference to the following activities: Archery, Wrestling, Stick-fighting, Yogic exercises.

CO2. Student will be able to understand Development of Physical Education in India: Mongal Period, British Period, Post Independence Period.

CO3. Student will be able to understand Development of Physical Education in Maharashtra: Maratha Period: 1600 A. D. onwards, British Period: 1800 A. D. onwards, Period of Nationalism: 1920 onwards, Modern Period: 1937 onwards.

CO4. To understand the History of Ancient Olympic Games and Legendary origin, Significance of the games, rules of the games and eligibility, conduct of events, awards, decline of ancient Olympics.

CO5. To know the History of Modern Olympic Games and Revival of the Olympic Games, controlling body, rules of eligibility for competition, organization and conduct of the games, venues, events, opening ceremony, awards, closing of ceremony, Olympic flag, Olympic torch etc.

CO6. To know the History of Asian Games and controlling body, rules of eligibility for competition, organization and conduct of the games, venues, events, etc.

Organization and Administration in Physical Education and Sports

CO1. To understand Organization and Administration in Physical Education and Sports, Meaning, Definitions, Concepts and its need in Physical Education and Sports and Principles of Organization and Administration in Physical Education and Sports.

CO2. To understand the University various competitions of Inter-collegiate Sports of Shivaji University, Inter- Zonal Sports of Shivaji University, Inter-University Sports and All India Inter-

University Sports With special reference to organize body, Finance and various Committees and their functions.

CO3. Student will be able to understand Different Institutions for training in Physical Education in India of NSNIS, LNIPE (Deemed University), Sports Authority of India with Inceptions and Functions.

CO4. To understand the what type of award, get in India such like National Level Award in National Level Bharat Ratna Award, Arjun Awards, Dronacharya Awards, Rajiv Gandhi Khel Ratna Awards with eligibility and nature.

CO5. To understand the State Level Award in Maharashtra such like Shiv Chatrapati Award, Shiv Chatrapati Jeevan Gaurav Award, Best Coach Award in state level with eligibility and nature.

CO6. Student will be able to understand Different Meets and Tournaments such as Importance of meets and tournaments, Officials, various Committees, opening ceremony, closing ceremony.

CO7. Student will be able to understand Different Playground Facilities and its Standards Preparation and Maintenance of Playgrounds, Gymnasium: Standards, Facilities and Maintenances and Lay-out of Play fields Kabaddi, Kho-Kho, Volleyball, Handball, Cricket, Basket Ball and its Standards, Facilities and Maintenances.

CO8. Student will be able to understand Different Equipment's of Sports: Care and Maintenance and Policies of purchases of Sports Equipment's.

Health Education

CO1. To get a knowledge of Health Education of Meaning, definitions of Health Education and Nature and scope of Health Education.

CO2. To get knowledge of Personal Health of Factors of Personal Health: Physical, Mental, And Social and Factors influencing on Health: Heredity, environment, Habits, Exercise.

CO3. To get knowledge of Social Health of Problems and futurity of social Health, Role of Government in social Health and Communicable diseases Causes and Prevention (Malaria, Dengue, Chikan Gunia, SawinFlue.) and HIV / AIDS - causes, symptoms and prevention.

CO4. To make the student aware of the Health of the Community of Health problems in family, Community, School and Colleges and Role of Government in community health.

CO5. To enable the student to understand Different Health Programmers: Importance of exercises in health and fitness and Drugs, Alcohol and Tobacco-Adverse effect on sports performance.

CO6. To understand about World Health Organization (WHO) its Aims and Objectives, program and projects and World Health Organization in India.

Dietetics and Hygiene

CO1. To get knowledge about Dietetics and Hygiene of Food sources and their effect: Natural food, impure food, processed food, Stimulants and Athlete Diet Need arid importance.

CO2. Student knowledge about Diet components: Carbohydrates, Proteins, Fats, vitamins, Mineral Fibers and water with need and importance.

CO3. To understand Balance Diet and Malnutrition Meaning, Definition and sources.

CO4. To make the student aware of Underweight: causes, sign and symptoms. And Obesity: causes, types, Signs and symptoms.

Recreation In Physical Education

CO1. To enable the student to understand the modern concept of Rhythm: Meaning. Concept, Definitions and Need and Importance of Rhythmic exercise, Classification of Rhythmic exercise Traditional and Modern.

CO2. To enable the student to understand the modern concept of Recreation: Meaning Concept,

Definitions and Need and Importance of Recreation.

CO3. To enable the student to understand the modern concept / trend of recreation: Hiking, Trekking, Trips/Picnic, Sports Camps and Competitions.

CO4. To understand about Recreational Scheduling Programmers provides for primary and secondary Schools, Colleges, Universities & Industrial Workers .

CO5. To get knowledge of Recreational Games and Facilities and Importance of recreational Game, Recreational Facilities in Sports.

Anatomy and Physiology

CO1. To acquaint the student regarding the brief Introduction of Anatomy, Physiology and Physiology of exercises Meaning, definition and importance.

CO2. To get knowledge of Circulatory System: Blood - Its constituents and functions, Heart - its structure and function and Blood pressure, Pulse, Blood groups, Oxygen debt.

CO3. To get knowledge of Digestive System: Organ of digestive system - Mouth, teeth, salivary glands, pharynx, oesophagus, stomach, small and large intestine, pancreas, liver, structure and function - in brief and Excretory System: Kidney and skin - it's Structure and function.

CO4. To get knowledge of Nervous System: Structure of brain and spinal cord, Reflex action.

CO5. To get knowledge of cell and its parts.

CO6. To get knowledge of Skeletal System: Structure and classification, Names of bones of the body and Functions of skeletal system.

CO7. To get knowledge of Muscular System: Structure, classification of muscular system, Name various muscles of the body and Effect of exercise on Muscular system.

CO8. To get knowledge of Respiratory System: The nose, pharynx, larynx, trachea, bronchioles, lungs structure and functions and knows as about Vital capacity, Second wind And Effect of exercise on respiratory system.

Yoga

CO1. To make the student aware of the true Aim, Objectives and Scope of Yoga in Human Life.

CO2. To understand Yoga and Physical Health: Promotive, Preventive and Curative aspects Of Physical Health tackled through Yogic practices.

CO3. To understand Relationship of Yoga and Mental Health: Nature of problems in mental health, Promotive, Preventive and Curative aspects of mental health through Yogic practices.

CO4. To understand Relationship of Yoga with Emotional Health.

CO5. To understand Effect of yogic exercises and Yoga on Various system of the Human Body.

CO6. To get knowledge about Astang Yoga of patanjali, Asana, Pranyam, Pratyahar, Dharana, Dhyan, Samadhi.

CO7. To understand Benefits of Yoga in Modern life.

CO8. To get knowledge about Yoga and Sports: Psychophysical basis of promoting sports career, Contribution of yogic practices for the development of Sports performances.

Physical Education and Sports Practical

CO1. Student gets knowledge about All Athletics events, Knowledge of Rules & Regulations, how to mark running track, track and field athletics technical officials, Fundamental skills Technique and Technique & Modern Style.

CO2. To get knowledge about Indian Game: Kabaddi and Kho kho it's Knowledge of Rules & Regulations, ground measurement, Ground Marking, technical officials, Fundamental skills Technique and Performance.

CO3. To get knowledge about Ball Game: Volley ball, Hand Ball, Basket Ball, Table Tennis's, Foot Ball and Cricket and its Knowledge of Rules & Regulations, ground measurement , Ground Marking,

technical officials, Fundamental skills Technique and Performance.

CO4. To get knowledge about Badminton its Knowledge of Rules & Regulations, ground measurement, Ground Marking, technical officials, Fundamental skills Technique and Performance.

CO5. To get knowledge about Wrestling and Weight Lifting its Different Styles, Modern Technique and Performance, Rules & Regulations, equipment's.

CO6. To get knowledge about Fencing and Judo its Knowledge of Rules & Regulations, technical officials, Fundamental skills Technique and Performance.

CO7. To get knowledge about Gymnastics: Front Role, Back Role, Cartwheel, Dive and Role, Hand Stand and its Knowledge of Rules & Regulations, technical officials, Fundamental skills Technique and Performance.

CO8. To get knowledge about Suryanamaskar, Pranayam: Anulom Vilom, Bhastrika, Bhramri, Shitkari, Shitali and yogasans: Padmasan, PadHastasan, Veerasan, Shawasan, Shalbhasan, Navkasan, Tadasan, Suptavajrasan, Matsyasana, Akarna Dhanurasana, Ardhamachhindrasana, Buddha Padmasana and its Performance.

CO9. To get knowledge about First Aid: Meaning, Objectives, Important rules, Material in the First Aid Box and identify Fracture - Types, Signs and Symptoms, Bleeding - Types, Signs and Symptoms - Use of Sling and Splint, Artificial Respiration - Meaning and Method of Artificial respiration, Bandage, Meaning, Types, Way of applying sling, simple dressing.

III. SPECIFIC PROGRAM OUTCOMES (PHY.EDU.)

CO1. `To make the student aware of the true meaning and modern concept / trend of physical education and Sports.

CO2. To help the student familiarize with the scope of physical education and sports.

CO3. Student will be able to understand Physical fitness, concept of Balance Diet. And Bad Habits with Special reference to Physical Finesses Alcohol and Tobacco.

CO4. To understand Kinds of body Posture, Characteristics of good body posture And Physical Differences between two sexes with reference to Physical performance-strength, speed, endurance, Agility, Flexibility etc.

CO5. To understand Physical Education Periods Advent of Aryans 2000 B.C. (Early Period), Epic Age 1500
B.C. to 500 B.C. and Buddhist Period in Ancient India.

CO6. Student will be able to understand Development of Physical Education in India.

CO7. Student will be able to understand Development of Physical Education in Maharashtra.

CO8. To understand the History of Ancient Olympic Games and History of Modern Olympic Games.

CO9. To know the History of Asian Games.

CO10. To understand the University various competitions of Inter-collegiate Sports of Shivaji University, Inter- Zonal Sports of Shivaji University, Inter-University Sports and All India Inter-University Sports.

CO11. Student will be able to understand Different Institutions for training in Physical Education in India of NSNIS, LNIPE (Deemed University), Sports Authority of India with Inceptions and Functions.

CO12. To understand what type of award, get in India such like National Level Sports Award and Maharashtra State Level Sports Award.

CO13. Student will be able to understand Different Playground Facilities and its Standards Preparation and Maintenance of Playgrounds.

CO14. Student will be able to understand Different Equipment's of Sports: Care and Maintenance

and Policies of purchases of Sports Equipment's.

CO15. To get knowledge of Personal Health of Factors of Personal Health: Physical, Mental, And Social and Factors influencing on Health: Heredity, environment, Habits, Exercise.

CO16. To make the student aware of the Health of the Community of Health problems in family, Community, School and Colleges and Role of Government in community health.

CO17. To enable the student to understand Different Health Programmers: Importance of exercises in health and fitness and Drugs, Alcohol and Tobacco-Adverse effect on sports performance.

CO18. To understand about World Health Organization (WHO) and World Health Organization in India.

CO19. To get knowledge about Dietetics and Hygiene of Food sources and their effect: Natural food, impure food, processed food, Stimulants and Athlete Diet Need arid importance.

CO20. To understand about Balance Diet and Malnutrition.

CO21. To make the student aware of Underweight and Obesity.

CO22. To enable the student to understand the modern concept of Rhythm and Recreation.

CO23. To acquaint the student regarding the brief Introduction of Anatomy, Physiology and Physiology of exercises.

CO24. To understand Yoga and Physical Health.

CO25. To understand Relationship of Yoga and Mental Health, Emotional Health.

CO26. To understand Effect of yogic exercises and Yoga on Various system of the Human Body.

CO27. To understand Benefits of Yoga in Modern life.

CO28. To get knowledge about Yoga and Sports Contribution of yogic practices for the development of Sports performances.

CO29. Student gets knowledge about All Athletics events, Knowledge of Rules & Regulations, how to mark running track, track and field athletics technical officials, Fundamental skills Technique and Technique & Modern Style.

CO30. To get knowledge about Indian Game: Kabaddi and Kho kho.

CO31. To get knowledge about Various Game: Volley ball, Hand Ball, Basket Ball, Table Tennis's, Foot Ball, Badminton, Wrestling, Weight Lifting, Fencing, Judo, Gymnastics and Cricket.

CO32. To get knowledge about First Aid : Meaning, Objectives, Important rules, Material in the First Aid Box and identify Fracture - Types, Signs and Symptoms, Bleeding - Types, Signs and Symptoms - Use of Sling and Splint, Artificial Respiration - Meaning and Method of Artificial respiration, Bandage, Meaning, Types, Way of applying sling, simple dressing.

Department of Physics

Course Outcomes

After completion of the courses,

CO1— Mechanics I

1 Students are able to study general physics.

2 Students can study basic conservation principles by using dynamics.

CO2—mechanics II

1 Students gain basic knowledge of mechanics

2 Students are exposed to different phenomena-a in physics and can understand applications of different phenomena in physics

CO3 --- Electricity and Magnetism I

1 Students are able to study properties of Static electric fields.

2 Gain information about Vector analysis.

CO4--- Electricity and Magnetism II

1 Students are able to solve problems related with electric and magnetic field

2 Get idea of Maxwell's equations

CO5 Practical - B.Sc. I

1 Awareness of importance of physics developed

2 Students gain skill of handling of instruments

3. Students get knowledge of mechanics

4. Awareness of handling of electronic appliances developed.

CO6-- Thermal physics and Statistical mechanics I

1 Studied laws of thermodynamics

2 Students expertise in measurement of temperature with different thermometers.

CO7-- Waves and Optics I

1 Students understand nature of waves and oscillations

2 They studied properties of Sound waves.

CO8 --Thermal physics and Statistical mechanics II

1 Students studied laws of Statistical mechanics

2 Studied TDS equations.

CO9-- Waves and Optics II

1 Students can understand different optical phenomena & can handle polarimeter to determine specific rotation of ppl

2 They can use knowledge of optics for various applications in society and develop research attitude

CO10 Practical - B.Sc. II

1 Students gain skill of measurement of thermal conductivity of different metals by various methods.

2 Students are exposed to study of effect of heat on properties of matter

CO11 practical -B.Sc. II

1 Students can understand properties of sound

2. Students exposed to different properties of light by using various optical instruments

CO12-- Mathematical Physics.

1 Students can understand idea of partial diff equations

2 Students can analyse properties of complex no. and can solve special type integrals.

CO13-- Quantum mechanics.

1 Students well understand wave nature of matter particle.

2 They understand 1D &3D wave equation and use to solve problems. Gain skill how to use Operators

CO14--Classical mechanics and Classical dynamics.

1 Students studied various equations and principles and their applications in classical mechanics

2 Students exposed to special theory of relativity and charged particle dynamics.

CO 15-- Digital and Analogue circuits and Instrumentation.

1 Students understand working and practical application of transistors; ICs, OPAMPS.

2 They can build electronic circuits and get knowledge about logic circuits.

3 Develop skill of use of CRO.

CO 16-- Nuclear and Particle physics.

1 Students exposed to nuclear properties with detectors and accelerator

2 Get knowledge about elementary particles and their classification.

CO 17-- Solid state Physics.

1 Students gain knowledge about magnetic properties of materials

2 Students are exposed to research in Materials science.

C18-- Atomic and Molecular physics and Astrophysics.

1 Develop research skills in astronomy and can study Cosmos and its origin

2. Develop scientific vision and can use for Society

3 Well understand Atomic and Molecular spectra.

CO19-- Energy studies and Materials science.

1 Gain knowledge about renewable energy sources.

2 Creates awareness about research in nanomaterial and Super capacitors.

CO20 Practical -B.Sc.III

1 Research attitude developed among students.

2 Job oriented skill developed

3 Awareness of use of nonconventional energy sources is developed

4 Students can apply practical knowledge to design logic circuits

CO21 Practical -- B.Sc.III.

1 Gain knowledge about safety of electronic instruments.

2 Students' expertise in use of Optical instruments

3 Expertise in how to use CRO

4 Gain skill of using electric instruments and use of physics for Society.

Department of Chemistry

DSC- 3A – Course I (Inorganic chemistry)

After completing the course students will able to,

CO:1 foster the ability and to acquire the knowledge of terms, facts, concept principles of atomic structure and ionic bonding

CO:2 develop the proper aptitude and interest towards the concepts of inorganic chemistry like VBT and MOT

DSC- 4A Course II (Organic Chemistry)

After completing the course students will able to,

CO:3 learn fundamentals of chemistry, stereochemical aspects and nomenclature of stereoisomers.

CO:4 understood concept of aromaticity, preparation, reactions of cycloalkanes, cycloalkenes and alcidines.

DSC 3B: Course III (Physical Chemistry)

After completing the course students will able to,

CO:5 understand the basic concepts of thermodynamics, thermochemistry and free energy change in chemical reaction.

CO:6 understand different theory of gases, factors affecting rate of reactions and theories of reaction rates.

DSC-4B- Course IV (Analytical Chemistry)

After completing the course students will able to,

CO:7 understand the basic methods of analysis, techniques of sampling, basic principle of chromatography and important aspect of titrimetric analysis.

CO:8 acquire the knowledge about physical methods of water analysis, chemical methods of water analysis along with basic aspects of fertilizers.

Course V Laboratory course (practical)

After completing the course students will able to,

CO:9 understood the kinetics of various reaction.

CO:10 acquire the knowledge of analysis of organic compounds.

CO:11 acquire the knowledge of simple techniques such as paper chromatography, quantitative analysis.

CO:12 determine the strength of mineral acids

DSC- C3 - Course VI (Physical Chemistry)

After completing the course students will able to,

CO:13 understand conductivity, transport number of the aqueous solutions with different applications, surface tension, viscosity, refractive index and surface phenomena at heterogeneous surfaces.

CO:14 learn the various nuclear phenomena, techniques of measurement of nuclear radiations and third order reaction.

DSC-C4- Course VII (Industrial Chemistry)

After completing the course students will able to,

CO:15 understood the basic concepts in Industrial Chemistry and electroplating.

CO:16 acquire the knowledge of Indian paper industry, Soaps and Detergents.

DSC-D3- Course VIII (Inorganic chemistry)

After completing the course students will able to,

CO:17 understood the meaning of terminologies, concepts of co-ordination chemistry and chelation.

CO:18 understood the periodicity of P- block, 3d-series elements and inorganic qualitative analysis

DSC-D4- Course IX (Organic Chemistry)

After completing the course students will able to,

CO:19 To impart knowledge about Preparation, synthesis, reactivity and applications of carboxylic acids, carbohydrates, Amines and Diazonium Salts.

CO:20 understood the basic knowledge conformational analysis of organic compounds, nomenclature and reactivity of aldehydes and ketones

Course X Laboratory course (practical)

After completing the course students will able to,

CO:21 understood the kinetics of various reaction and use of instruments for different analytical application.

CO:22 acquire the knowledge of Preparation, analysis of organic compounds and mixture.

CO:23 foster the knowledge of extraction, purification of various metals and the analysis of inorganic compounds and mixture.

CO:24 perform the quantitative analysis of various analytes

DSE-E5- Course XI (Inorganic Chemistry)

After completing the course students will able to,

CO:25 acquire the knowledge of Acids, bases and bonding in transition metal complexes

CO:26 understood the metals, semiconductor, superconductors, organometallic compounds and catalysis

DSE-E6 - Course XII (Organic Chemistry)

After completing the course students will able to,

CO:27 understand the energy associated parameters, chromophore, auxochrome, calculation of λmax, vibrational transitions, regions of IR spectrum and functional group recognition.

CO:28 get the knowledge of magnetic non-magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern, molecular ion, fragmentation pattern and different types of ions produced. Also able to solve problems based on UV-Vis, IR, NMR, Mass Spectral data and predict the structure of organic compound with the help of provided spectral data.

DSE- E7- Course XIII (Physical Chemistry)

After completing the course students will able to,

CO:29 understand elementary quantum mechanics, quantum Chemistry and spectroscopy Knowledge

CO: 30 learn different aspects of Photochemistry, solutions and electrochemistry

DSC-E-8 -Course XIV (Analytical Chemistry)

After completing the course students will able to,

CO:31 Learn the techniques of gravimetric analysis, potentiometric titrations and acquire the knowledge of instrumental analysis of alkali and alkaline earth elements by using flame photometry.

CO:32 Understand working, applications of optical methods as an analytical tool and Quality control practices in analytical industries / laboratories.

DSE-F-5-Course –XV (Inorganic Chemistry)

After completing the course students will able to,

CO:33 impart the advances in co-ordination Chemistry, Nuclear chemistry and its societal applications

CO:34 understood the Chemistry of f-block Elements, extraction of iron and steel and Role of various metals in Bio –inorganic chemistry

DSE-F6 – Course -XVI (Organic Chemistry)

After completing the course students will able to,

CO:35 knowledge of different organic reactions, reagents used in organic transformations and retrosynthesis of some organic compounds.

CO:36. learn electrophilic addition to >C=C<, −C≡C− bond and get knowledge of alkaloids and terpenoids. understand chemistry of some pharmaceutical drugs.

DSE-F 7- Course XVII (Physical Chemistry)

After completing the course students will able to,

CO:37 know Phase equilibria, phase rule, Thermodynamics and solid-state chemistry.

CO:38 learn Chemical kinetics and understanding the knowledge of distribution law

DSC-F-8 -Course XVIII (Industrial chemistry)

After completing the course students will able to,

CO:39 understand the process of manufacture of sugar, industrial heavy chemicals and synthesis of various polymers.

CO:40 Understand the petroleum Industry, need of use of eco-friendly fuels and Understanding learning of nanotechnology

Course XIX Laboratory course (practical)

After completing the course students will able to,

CO:41 apply practical knowledge to industrial application and for developing methods

CO:42 understood the kinetics of various reaction

CO:43 handle instruments for different analytical application.

CO:44 foster the knowledge of extraction, purification of various metals the analysis of inorganic compounds and mixture.

CO:45 analyse the commercial samples such as talcum powder, milk sample etc.

CO:46 acquire the knowledge of Preparation of organic compounds though green chemistry approach.

CO:47 carry out qualitative analysis of organic mixture

CO:48 work in chemistry related industries

Department of Botany

CO1. Students will able to recognize the position of plant in phylogenetic level.

CO2. Students will able to identify the plants

CO3. Students will be able to present scientific hypotheses.

CO4. Students will be able to distinguish the characteristics of fungi, algae, bryophytes, pteridophytes, gymnosperm and Angiosperm.

CO5. Students will be able to explain different parts of the plants and their function.

CO6. Students will be able to explain the skills of bio fertilizer production, Mushroom Cultivation and Different analytical techniques used in the plant science.

Curse Outcomes:

Paper V:

After successful completion of the course, the students will be able

1. To know the scope and importance of the plant systematics.
2. To understand plant morphology, nomenclature and classification

3. To prepare and demonstrate herbarium and to understand importance of Botanical gardens.

4. To examine internal organization of plant organs.

5. To differentiate and understand plant tissue systems.

6. To analyse the composition of different parts of plant.

Paper VI:

After successful completion of the course, the students will be able

1. To understand the principles of Mendelian inheritance and gene interaction.

2. To differentiate between structural and numerical variations in chromosomes.

3. To analyse and solve genetic problems on linkage and crossing over.

4. To know the composition and significance of nucleic acids.

5. To summarize concept of central dogma and genetic code.

Paper VII:

After successful completion of the course, the students will be able

1. To understand core concepts of biotic and abiotic components.

2. To gain and insight in to the diverse ecosystem, related food web and ecological pyramids.

3. To prepare of Phytogeographical regions of India.

4. Know importance of plants and plant products and their utility.

5. To know the centre of origins of different crop plants.

6. To understand importance and conservation of Germplasm.

Paper VIII:

After successful completion of the course, the students will be able

1. To understand various physiological processes in plants.

2. To understand significance and mechanism of photosynthesis.

3. To know the process of respiration in higher plants.

4. To design outlines of landscaping and home gardening.

5. To propagate plants by seed and vegetative propagation.

6. To prepare different types of gardens and to know garden equipment's.

CO9-

1. Mendelian and Neo-mendelian genetics and mechanism of crossing over and linkage and mutation.

2. Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pure line Selection and Clonal selection.

CO10-

1. Understand the Microbial Genetics and Recombination in Bacteria.

2. Understand the scope and importance of Mushroom cultivation.

CO11-

1. To gain knowledge about “Cell Science”.

2. Know the details of Microscopy, Chromatography and cultural techniques in Botany.

3. To know the concept and importance of intellectual property right and objectives, procedure and working of patents.

CO12-

1.To know the importance of Pomiculture, Olericulture, Floriculture and Land scape gardening and infrastructure for nursery.

2.To get the knowledge of Horticultural produce and management of pest and diseases.

CO13-

Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharides.

1. They will learn about the Significance of Carbohydrates and understand the Properties of saturated fatty acids, and unsaturated fatty acids.

2. Understand the protein - structure and classification and protein biosynthesis in prokaryotes and eukaryotes.

3. They will learn about the nucleic acid metabolism and understand the biochemical nature of nucleic acids, their role in living systems.

CO14-

1.To know the scope and branches of Informatics, biological data bases and applications.

2.To understand the collection and presentation biostatical data, Census method and sampling methods, classification, tabulation and graphical representation.

3.Economic botany is useful to know the concept of centres of origin of cultivated plants, medicinal plants, spices, beverages and fibre yielding plants.

CO15-

1. Know about the genomic organization of living organisms and understanding the fundamentals of Recombinant DNA Technology, DNA fingerprinting, molecular DNA markers, PCR and concept of gene bank.

2. Understanding the Genetic Engineering and principle and basic protocols for Plant Tissue Culture.

3. Know the scope of Palaeobotany, types of fossils, its role in coal ball economy and geological time scale and role of microfossils in oil and coal exploration.

CO16-

1.Understand the importance, types and study of bacterial, blue green algal, mycorrhizal and Trichoderma biofertilizers and methods of vermicomposting.

2.To Know the importance of herbal medicines, classification of crude drugs and applications of herbs in cosmetics, facemasks, bath oil and perfumes.

CO4 – Practical

1. Students can understand to examine the structure of DNA.

2. Students can identify the common plant diseases according to geographical locations and device control measures.

3. Students can understand the process of fossilization and types of fossils.

CO5 – Practical

1.Students can understand to compared the effect of chromosomal abnormalities in numerical as well as structural changes leading to genetic disorders.

2. Students can conceptually understand of plant genetic resources, plant breeding, gene bank and gene pool.

3.Students can aware the spices fibres, cereals, legumes and oils.

CO6 – Practical

1.Students can understand the herbal preparations of churns, decoction, hair oil and shampoo.

2.Students can understand the micrometry, microphotography and microtomy techniques.

CO7 – Practical

1.Students can understand the varices branches of horticulture, fruit and vegetable crops, floriculture, medicinal and aromatic plants.

2.Students can understand the different landscaping practices and garden design.

3.Students can understand the different types of chromatography techniques.

Department of Zoology

Course Outcomes (CO): B.Sc. –I Zoology

Sem- I: Paper I- DSC – 15 A (Animal Diversity-I)

CO 1 Theory and practical papers touch upon systematics, animal diversity from phyla from Protista to Annelida. and will enhance in understanding the usefulness of systematic in the identification, nomenclature and classification of animal diversity.

CO 2 Imparting knowledge of five kingdom classification system and biodiversity related to non-chordates from Protista to Echinodermata

Course Outcomes (CO): B.Sc. –I Zoology

Sem-I: Paper-II- DSC – 16 A (Animal Physiology)

CO 1 Students will be able to understand the working of nerve cell and its signalling, mechanism of muscle contraction and relaxation

CO 2 Student will be able to understand importance of respiratory gases and mechanisms of transportation, Structure and function of kidney and heart.

CO 3 Student will be able to understand the types of blood and its function. Course Outcomes (CO): B.Sc. –I Zoology

Sem-II: Paper-III - DSC – 15 B (Cell Biology and Evolutionary Biology)

CO 1 Students would have a deeper insight into the structure and functions of a living cells, deeper knowledge of cell theory, difference between prokaryotes and eukaryotes and to understand the importance and functions of cell organelle.

CO 2 Understanding the evidences of evolution like fossils, connecting links and living fossils and its importance.

CO 3 Students will be understanding the Lamarckism and Darwinism to understand different changes occurs during the evolution of earth. Course Outcomes

(CO): B.Sc. –I Zoology

Sem-II: Paper IV- DSC – 16 B (Genetics)

CO 1 students would have a deeper insight into the understanding concepts like of inheritance, Mendelian genetics

CO 2 understanding the divergence from Mentalism patterns of inheritance, co-dominance, Incomplete dominance, multiple alleles and lethal genes

CO 3 Students will be able to the significance of linkage, crossing over, Different types of mutations and Different types Sex determination

Course Outcomes (CO): B.Sc. –II Zoology Semester III: Paper V (Animal Diversity-II)

CO 1 Understanding the Characters, classification and phytogenic relations among Protochordates, Agnetha, Pisces, Amphibians Reptiles, Aves and Mammals.

CO 2 Making aware about Venomous and non- Venomous snakes, venom and its effect, snake bite and first aid.

Course Outcomes (CO): B.Sc. –II Zoology

Semester III: VI- (Biochemistry)

CO 1 Imparting knowledge about nucleic acids (of DNA and RNA) and enzyme nomenclature, Classification, enzyme kinetics, Inhibition, regulations and Isozymes.

CO 2 Student will be able to understand the different types of Protein, Lipid and carbohydrate

metabolism.

Course Outcomes (CO): B.Sc. –II Zoology Sem: IV Paper VII: (Reproductive Biology)

CO 1 Imparting knowledge of histological structures of mammalian reproductive organs

CO 2 Imparting knowledge of hormones

CO3 Imparting knowledge of modern technique like IVF, ET, EFT, IUT, ZIFT, GIFT, ICSI, PROST

Course Outcomes (CO): B.Sc. –II Zoology Sem: IV Paper VIII: (Applied Zoology – I)

CO 1 Students will able to understand the Transmission, Prevention and control of diseases: Tuberculosis, Typhoid.

CO 2 To understand the Economic importance of different insects

CO3 To understand the principles of poultry breeding, Management of breeding stock and broilers, Processing and Preservation of eggs.

CO4 Imparting knowledge of some crop pests, house hold pests, store rain pests and their biological control.

Course Outcomes (CO) B.Sc. III

B. Sc. III - 2020-21

Course Outcomes (CO): B. Sc. – III Zoology

Sem: V: Paper IX: DSE-E29(Comparative Anatomy of Vertebrates)

CO 1 Imparting knowledge of integuments and endoskeleton among the vertebrates.

CO 2 Imparting knowledge of basic structural and functional parts of digestive and respiratory system from lower vertebrates to higher vertebrates.

CO3 Imparting knowledge of excretory and nervous system of various classes of vertebrate Course Outcomes

(CO):B.Sc –III Zoology

Sem: V: Paper X: DSE-E29 (Molecular Cell Biology and Animal Biotechnology

CO 1 Understanding the molecular concepts in biology

CO 2 Getting aware about various Animal Biotechnology.

CO 3 Understanding the synthesis of protein Course Outcomes

(CO): B.Sc –III Zoology

Sem: V Paper XI: DSE-F30 (Biotechniques and Biostatistics)

CO 1 Understanding the many biostatistics terms such as tabulation, measure of central tendency, Graphical representation of data, Dispersion and correlation

CO 2 Getting aware about application of biotechnology in medicine, animal husbandry and agriculture

CO3 Imparting knowledge about production of cloned and transgenic animals. Course Outcomes

(CO): B.Sc –III Zoology

Sem: V: Paper XII: DSE-F31 (Aquatic biology and Endocrinology)

CO 1 Getting aware about environment, Understanding and getting knowledge about the aquatic biomass of various zones and biology of lakes and streams.

CO 2 Understanding the anatomy, histology, role, regulation and disorder various endocrine glands of human

Course Outcomes (CO): B.Sc. –III Zoology

Sem: VI Paper XIII: DSE-E30 (Developmental Biology of Vertebrates)

CO1 Understanding the gametogenesis and detailed development of chick up to 72 hrs.

CO2 Understanding the early developmental process of frog

CO3 Imparting the knowledge of placenta formation, types and its significance.

Zoology

Course Outcomes (CO): B.Sc. –III

Sem: VI- Paper XIV: DSE-E32 (Immunology)

CO 1 Imparting the knowledge of immunology

CO 2 Understanding the cells and organs of immune system, and basic properties of antigens

CO3 Students will be able understand the structure, function, antigen – antibody interaction of and hybridoma technology.

Course Outcomes (CO): B.Sc. –III Zoology

Sem: VI- Paper XV: DSE-E31(Applied Zoology-II)

CO 1 Understanding the economic importance of apiculture, Pearl culture.

CO 2 Imparting knowledge about animal Husbandry and goat farming

CO3 Understanding the fisheries industry and economic importance of fishes and prawn culture.

Course Outcomes (CO): B.Sc. –III Zoology

Sem: VI- Paper XVI: DSE-F32 (Insect Vectors and Histology)

CO 1 Getting aware about various pathogenic insect vectors

CO 2 Understanding the Histological structure of mammalian organs.

Department of Mathematics

Course Outcome's (CO)
After the completion of the course,

CO 1: Differential Calculus:

CO1 Use the Democide's theorem and solving different problems
CO2 Use of Leibnitz's theorem and solve n the order derivative

CO 2: Calculus:

CO3 Students will able to understand differ and fundamental theorem in differentiation & various rule

CO4 Introduction of ordinary Differential Equation and also concept of limit, continuity, differentiation

CO3: Differential Equation:

CO5 Understand basic idea of differential equation of first order and first degree.

CO6 Concept of different types of partial derivatives are studied

CO 4: Higher Order Differential Equation:

CO7 Understand concept of second order linear differential equation

CO8 Understand concept of simultaneous differential equation and total differential equation

CO 5 : CCPM I (Bsc I Practical)

CO9 By using Leibnitz's theorem to find the nth different ion of function

CO10 Using Tayler's and Maclaurin series expands given function

CO 6: Real Analysis –I
CO11 Understand types of functions and how to identify them
CO12 Use mathematical induction to use the various properties and understand the basic of real analysis

CO 7: Algebra –I
CO13 Understand properties of matrices

CO14 Solve system of Linear homogeneous equation. And liner non- homogeneous equation

CO 8: Real Analysis –II
CO15 Understand the sequence and subsequence

CO16 prove the Bolzano –Weiestrass Theorem and derive the Cauchy converges criterion and find convergence of series

CO 9: Algebra –II
CO17 Understand properties of normal subgroup, factor group

CO18 Define basic properties of Ring and subring.

CO 10: CCPM 2 (BSc II Practical)

CO19 Find the Eigen value, Eigen vectors

CO20 Find convergence of series and derive Cauchy's convergence criterion

CO 11: CCPM 3 (BSc II Practical)

CO 12: Mathematics Analysis:

CO23 The integration of bounded function on a closed and bounded interval

CO24 Some of the families and properties of Riemann integrable functions and the application of fundamental theorem of integration.

CO 13: Abstract algebra

CO25 Basic concept or group and ring and identify the given set with the composition form Ring, integral domain or field

CO26 understand the difference between the ring and group and apply the fundamental theorems, Isomorphisms theorem of group to prove that these theorem of ring

CO 14: Optimization Techniques:

CO27 provide the students basic knowledge of the operation research model and techniques, which can be apply to a variety of industries and real-life application

CO28 Identify and select suitable methods for various games. To apply the linear programming and find algebraic solution to games

CO 15: Integral Transform

CO29 understand the concept of LaPlace transform

CO30 Apply the properties of LaPlace Transform to solve the differential equation

CO 16: Metric Space

CO31 demonstrates the properties of continuous function on matrix space Apply the notion of matrix spaces to continuous function on matrix space

CO32 understand the basic concept of connectedness,

completeness, and compactness of matrix space

CO 17: Linear algebra

CO33 understand of vector space, subspace and understand the concept of linear transformation and its application t real life situations

CO34 work out algebra of linear transformation

CO 18: Complex analysis

CO35 Learn the basic concept of functions of complex variable

CO36 learn concept of complex integration and basic result theorem be introduce basic concept of sequence and series of complex variable

CO 19: Discrete Mathematics

CO37 contradictions and quantifiers and apply notion in logic in other branches of mathematics

CO38 Nonlegendary Algorithms: Searching Algorithms, sorting, greedy algorithms use the classical notion of logic, implication, equivalence, negation, proof by

CO 20: CCPM IV, V, VI (BSc III Practical)

CO39 Linear programming and its Method.

CO40 Theory of games, Game with saddle pt and without saddle point.

CO41 Laplace Transformation of given function and inverse LaPlace by using standard result.

CO42 Using convolution theorem of Fourier transform.

CO43 Introduction of Python, Expressions and operators, Python Data Structure

CO44 Data Visualization in python – 2D and 3D plot in Python

Department of Statistics

Course outcomes (CO's)

Course 1: Descriptive Statistics I

At the end of this course students will be able to,

CO1: Know meaning and scope of statistics in various fields and to know various types of data.

CO2: Evaluate summary measures, to know concept of attribute, independence and association.

Course 2 : Elementary Probability Theory

At the end of this course students will be able to,

CO3: Explain random and non-random experiments and compute probabilities of various events.

CO4: Explain concept of independence, conditional probabilities and apply Baye's theorem.

Course 3 : Descriptive Statistics II

At the end of this course students will be able to,

CO5: Compute index numbers by various methods.

CO6: Know the concept of correlation and regression and its application.

Course 4 : Discrete Probability Distributions

At the end of this course students will be able to,

CO7: Know probability models for discrete random variables, concept of skewness and kurtosis.

CO8: Know some standard discrete probability distributions, the concept of bivariate distributions.

Course 5 : Practical I

At the end of this course students will be able to,

CO9: Represent statistical data diagrammatically and graphically.

CO10: Compute measures of central tendency, dispersion, correlation and regression coefficients.

CO11: Explain the concept of consistency, association and independence of attributes and computer index numbers.

CO12: Know applications of some standard discrete probability distributions.

Course 6 : Probability Distributions – I

At the end of this course students will be able to,

CO13: Understand the concept of discrete and continuous distributions and evaluate probabilities.

CO14: Derive the probability distributions of transformed univariate and bivariate continuous. v's

Course 7 : Statistical Methods - I

At the end of this course students will be able to,

CO15: Fit multiple linear regression and to compute multiple and partial correlation coefficients.

CO16: Know the concept of sampling, vital statistics, mortality, fertility and growth rates.

Course 8 :Probability Distributions – II

At the end of this course students will be able to,

CO17: Know various continuous probability distributions and to evaluate the various measures.

CO18: Understand Chi-square, t and F distributions and inter relations among them.

Course9 : Statistical Methods II

At the end of this course students will be able to,

CO19: Know the concept of time series, SQC and to construct varies control charts.

CO20: Understand the basic terms in testing of hypothesis and apply the large and small sample tests.

Course 10 : Practical II& Practical III

At the end of this course students will be able to,

CO21: Compute probabilities of standard probability distributions, expected frequencies and test for goodness of fit also to draw random samples by various sampling methods

CO22: Fit plane of regression and to compute multiple and partial correlation coefficients.

CO23: Construct various control charts and to decide the state of production process

CO24: Apply the large and small sample tests in various hypothesis testing problem

Course 11 :Probability Distributions

At the end of this course students will be able to,

CO25: Understand Laplace, Cauchy, Lognormal, Weibull, Logistic, Pareto and Power Series distributions with their applications and inter relations.

CO26: Know Multinomial distribution, Bivariate Normal distribution and Truncated Distributions.

Course 12 : Statistical Inference I

At the end of this course students will be able to,

CO27: Understand the basic concepts in statistical inference and important properties of estimator.

CO28: Obtain estimate of the parameters using MLEand know the inference of parameters of standard discrete and continuous distributions.

Course 13 : Design of Experiments

At the end of this course students will be able to,

CO29: Know the basic concepts and principles in design of experiments and to know ANOVAtable.

CO30: Design and analyze CRD, RBD and LSD also the factorial experiments with confounding.

Course 14: R Programming and Quality Management

At the end of this course students will be able to,

CO31: Acquire the knowledge of identifiers, operators, conditional statements, loops used in R, write simple programs to compute various statistical measures.

CO32: Acquire the knowledge of quality tools and to know the concept of process and product control used in Quality management.

Course 15 : Probability Theory and Applications

At the end of this course students will be able to,

CO33: Know the Chebyshev's inequality and to understand the concept of order statistics and its applications.

CO34: Know the various modes of convergence of sequence of random variables and the concept of reliability also to compute reliability of various systems.

Course 16 : Statistical Inference II

At the end of this course students will be able to,

CO35: Obtain and interpret interval estimates of population parameters.

CO36: Differentiate between parametric and nonparametric tests, to develop parametric and non-parametric tests for various hypothesis testing problems.

Course 17 : Sampling Theory

At the end of this course students will be able to,

CO37: Select and implement appropriate probabilistic sampling scheme and to estimate desired population parameters based on SRS, Stratified Sampling, Systematic sampling and Cluster Sampling.

CO38: Compare various sampling techniques and utilize auxiliary information in survey by means of Ratio and Regression method of estimation.

Course 18 : Operations Research

At the end of this course students will be able to,

CO39: Formulate a problem as a LPP and to obtain its solution of LPP by different methods.

CO40: Obtain the solution of transportation, assignment and sequencing problems, to apply the simulation techniques.

Course 19 : Practical IV, V, VI & VII

At the end of this course students will be able to,

CO41: Compute probabilities of standard probability distributions, test for goodness of fit and to draw random samples by various sampling methods.

CO42: Determine the parameters and probabilities for multinomial and bivariate normal distribution

CO43: Estimate the various parameters by point and interval estimation method.

CO44: Test various hypothesis by using parametric and non-parametric tests based on

observed data

CO45: Analyse the CRD, RBD, LSD also factorial and confounded designs.

CO46: Determine sample size in SRS for variables and attributes and to obtain the estimators of population parameters.

CO47: Develop R code for specific task, formulate LPP and obtain the solution by different methods.

CO48: Construct the control charts and study the state of production Process.

Department of Commerce

After successfully completing this course, the student will be able to:

Course 1: Financial Accounting Paper I

CO01: Maintain books of accounts of sole trader, partnership, company and Bank.

CO02: Able to use information to support Business processes and practices.

Course 2: Management Principles and Application Paper I

CO01: Apply the knowledge of management in small and medium scale industries.

CO02: Understands the concepts related to business.

Course: 3 Insurance Paper I

CO01: Describe the features of life insurance, fire insurance and marine insurance.

CO02: Explain the regulatory framework of insurance in India.

Course: 4 Principles of Marketing Paper I

CO01: Apply key Marketing theories, frameworks and tools to solve marketing problems

CO02: Basic knowledge of 4ps of marketing and retailing

Course 5: Financial Accounting Paper II

CO01: Apply written and oral communication skills.

CO02: Use various costing techniques and do the cost Audit and procedure of Auditing.

Course 6: Management Principles and Application Paper II

CO01: Understanding of complexities associated with management of Human resources.

CO02: Demonstrate the roles skills and functions of Management.

Course: 7 Insurance Paper II

CO01: Explain the features of general insurance like crop and cattle insurance.

CO02: Explain the nature and principle of insurance.

Course: 8 Principles of Marketing Paper II

CO01: Provide this knowledge of concept, principles, tools and techniques of marketing

CO02: Utilise information of firms external and internal marketing environment.

Course: 9 Money and Finance Paper I

CO01: Apply the Knowledge to solve monetary and financial problems

CO02: To use E Banking Services

Course: 10 Fundamental of Entrepreneurship Paper I

CO01: Impart Theoretical Knowledge of Entrepreneurship

CO02: Develop Entrepreneurship Qualities and Skills

Course: 11 Corporate Accounting Paper I

CO01: Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeiture shares.

CO02: develop demonstrate accounting for issue of debentures and redemption of debentures

Course: 12 Money and Finance Paper II

CO01: Explain working of RBI in India

CO02: Provide consultancy and guidance for investment in Financial Market and Business practices of NBFCs and AIFI

Course: 13 Fundamental of Entrepreneurship Paper II

CO01: Acquaint Students with Steps involved in the Formation of Small Enterprise

CO02: Enlighten Students with Recent Trends and Concept Entrepreneurship

Course: 14 Corporate Accounting Paper II

CO01: Explain the accounting entries of profit / loss prior to incorporation

CO02: Provide this knowledge Tally ERP.

Course: 15 Business Regulatory Framework Paper I

CO01: Apply the Knowledge to solve the business problem

CO02: Create legal awareness among the students

Course: 16 Modern Management Practices Paper I

CO01: To make students familiar with the modern management practices being used by the corporate world.

CO02: To expose the students to importance and applicability of various modern management practices

Course: 17 Advanced Costing Paper I

CO01: To Understand the basic concepts of cost accounting.

CO02: To know the application of cost accounting in determination of labour cost.

Course: 18 Advanced Costing Paper II

CO01: To Understand different methods of absorption of overheads.

CO02: To Understand meaning of activity-based costing and its practical application.

Course: 19 Advanced Accountancy Paper I

CO01: To Understand the financial statements of banks

CO02: To know the accounting process on Tally with GST.

Course: 20 Advanced Accountancy Paper II

CO01: To Understand audit and types of audits, identify the residential status and its implication on tax liability.

CO02: To know the computation of income from various sources as well as total income.

Course: 21 Industrial Management Paper I

CO01: To Understand the Concepts Industrial Management

CO02: To know the work environment and plant maintenance and financial management.

Course: 22 Industrial Management Paper II

CO01: To Knowledge about the Human Resource Management

CO02: To understand employee training and recent trends in HRM

Course: 23 Business Regulatory Framework Paper II

CO01: The latest laws Governing business and commercial transaction

CO02: Knowledge of Sales Goods Act and Consumer Protection act

Course: 24 Modern Management Practices Paper II

CO01: To make students familiar with the modern management practices being used by the corporate world.

CO02: To expose the students to importance and applicability of various modern management practices

Course: 25 Advanced Costing Paper III

CO01: To Understand the concepts of job and unit costing.

CO02: To know the application of Process costing and joint product and by product accounting.

Course: 26 Advanced Costing Paper IV

CO01: To know the concept and types of budgets and concept of budgetary control.

CO02: To Understand prospects of cost accounting standards.

Course: 27 Advanced Accountancy Paper III

CO01: To Understand the accounting situations of insurance cliam.

CO02: To know the demonstrate accounting for farms and hire purchase systems.

Course: 28 Advanced Accountancy Paper IV

CO01: To understand the basic concepts of income tax and basis of charge

CO02: To know the basic Concepts about GST.

Course: 29 Industrial Management Paper III

CO01: To Understand the Concepts of Production Management.

CO02: To know the Inventory Management, productivity, Logistic Management.

Course: 30 Industrial Management Paper IV

CO01: To know the concepts the employee remuneration and industrial relations.

CO02: To understand Human Resource Accounting.

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P.V.P. MAHAVIDYALAYA ★ K.Mahankal,Dist.Sangli ★

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