



ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, KADA, ASHTI, BEED-414202.
ANNUAL TEACHING PLAN- 2022-23

Subject: - English

| Semest er- / | Paper | Jun. | Jul. | Aug. | Sept. | Oct. | Semester / / | Nov. | Dec. | Jan. | Feb. | Mar. |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| B. A. / B. Sc. | Comp. Pr. I. A Course in Communicati ve English | Admission Process & Introduction about Syllabus | The Essence of Democracy- Dr. B.R. Ambedkar, A Prayer for my daughter- W.B Yeats, Ophelus and Eurydice- William B. Forbush . | A Psalm of Life- H.W Longfellow, A tribute to the Buddha- M.S. Gaikwad, The toys - Coventry Patmore | Spoken English & Broken English The Marriage of true minds- William Shakespeare Grammar: The Clause Elements, S.V.O.C.A, Articles & Prepositions | Night of the Scorpion- Nissim Ezckiel, Sir Isaac Newton- Nathaniel Hawthorne, The Tenses, Marathi Al. to English Words. Int eval. | B. A. / B. Scl I Comp. Pr. II | India's message to the world- Vivekanand, Are the rich Happy- Leacock, Stopping by woods- Robert Frost, Poem of Serpants- Yashwant | I have a dream- MLK, Strange Meeting- Owen, Sentence Types, Blog Writing, Going Public- W. Issacson | The ballad of Landlord- L. Hughes, Gold from the grave- A.B. Sathie, Affixation and word formation, Phrases & Idioms, Descriptive paragraph | The tiger and the deer- Autrobindo, Antonyms & Synonyms, Narrative Paragraph, Translation skills | Preparing an Adv. Internal evaluation and revision, Exercises |
| | Opt. Pr. I Forms of Literature | Admission Process & Introduction to syllabus | Types of poetry- The lyric, the ode, Ode on a Grecian Urn- Keats | Elegy written in a country Churchyard- Gray, The sonnet | On His Blindness- J. Milton, The Elegy, the Splendour Falls- Tennyson Fiction-Merchant of Venice | Types of Drama- Tragedy, Comedy, Tragy- Comedy 'Train to Pakistan ' Internal Evaluation | Opt. Pr. II Forms of Literature | Prose types- The essay, Autobiography, Biography | Essays of Francis Bacon- Of Truth, Of Death, Of Revenge, of Parents & Children, of Nobility | Autobiography- The race of my life- Milkha Singh Drama- Justice- John Galsworthy | Fiction - The Alchemist- Paulo Cohelo | Word Formation Revision, Internal Evaluation |
| B. A. I. Optional English | Opt. Pr. III Forms of Literature | Admission Process & Introduction on about Syllabus | Types of Drama- One act play, Dramatic Monologue, Farce and Melodrama, How He lied to Her husband | Poetry- Christabel- S.T. Coleridge, My Last Duchess, A morning prayer, Three Sisters | Poetry- Christabel- S.T. Coleridge, My Last Duchess, A morning prayer, Three Sisters, The Rule of the road, | Short Fiction Thopostmaster- R. Tagore, When I Hid my Caste- B. Bagul, The adventure of dying detective, Revision | Opt. Pr. IV Forms of Literature | Poetry Types - The Epic, The Satire, The Idyll Samson agonists- Milton Essays by Francis Bacon- Of Envy, Of Love, Of Adversity, | Of marriage and single life, Of Goodness and good nature, Of Boldness, of superstition, Of suspicion, Of Ambition, Of beauty | Drama- Dr. Faustus- Christopher Marlowe | Fiction - The English Patient - Michael Ondaatje | Revision Internal Evaluation |

| | |
|--|-----------------|
| 2) Prof. Randive B Com. II. Compulsory English, | |
| B.A. I. pr. II (Reading Literature) | 05 |
| B.A.III. pr. v (Twentieth Century English Literature) | 04 |
| B.A.III. VI (Introduction to literary criticism) | 04 |
| B.A.III. (Project Work), | 04 |
| | Total=20 |
| 3) Prof. Kuchekar S.B. BA/Bsci. II Comp. English, | 05 |
| B.A.I. Opt, pr. I Opt. Eng | 04 |
| B.A. II. Pr. iii opt English | 04 |
| B.A.III. pr.viii | 01 |
| | Total=14 |

Total=52


Dr. S. D. Gaikwad
 Assistant Professor
 Head and Research Guide Dept. of English
 Anandrao Dhonde Alias Babaji Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed-414202




PRINCIPAL
 Anandrao Dhonde Alias Babaji College
 Kada, Tal. Ashti, Dist. Beed



आनंद राव धोले उर्फ बाबाजी महाविद्यालय, कडा

आनंद चैरिटेबल संस्था आर्टी, संवर्धित

ता. आर्टी जि. बीड
हिन्दी विभाग

वार्षिक नियोजन २०२२-२०२३

प्रो. एम. आर. पटेल

| अ. नं. | कक्षा | जुलाई | अगस्त | सितंबर | अक्टूबर | नवंबर | दिसंबर | जनवरी | फरवरी | मार्च | अप्रैल | |
|--------|-----------------------|---|---|---|--|---|---|---|--|---|---|--|
| | | आधुनिक कविता प्रथम सत्र ऐच्छिक पेपर क्र. II | | | | | | | | | | |
| | | मध्ययुगीन कविता द्वितीय सत्र ऐच्छिक पेपर क्र. IV | | | | | | | | | | |
| १ | बी. ए. - I | १. काव्यकुसुम - पुस्तक परिचय, आधुनिक कविता | भारतेंदु हरिश्चंद्र, निजभाषा उन्नति, विविध कला शिक्षा | राष्ट्रसंत तुकडोजी महाराजकी कविताएँ | भारतमहिमा- जयशंकर प्रसाद, प्याला-बच्चन, प्रेत का बयान | सिंहासन खाली है, चिथड़े में हिंदूस्थान, उतनी दूर मत ब्याहना बाबा, राहुल, खंडकाव्य | पद्य परिमल, संत नामदेव, जायसी, संत कबीर, सूरदास | संत रैदास, संत मीराबाई, रहिम, संत तुकाराम | बिहारी, भूषण, घनानंद | महाकव्यांश रामचरितमानस - तुलसीदास, साराश | चरित्र, भक्तिकाव्य और लोकजीवन संदेश, उद्देश्य | |
| २ | बी. ए./बी. एससी. - II | गद्य के विविध आयाम- १. आत्मवृत्त- मेरा जीवन प्रेमचंद, २. रेखाचित्र नीलकंठ - मोर | ३. संस्मरण, कमला- ४. निबंध - शिरीष के फूल, आलोचना | ५. यात्रावृत्त - चीड़ोपर चांदनी, आलोचना | १. प्रयोजनमूलक भाषा २. भाषाशिक्षण स्वरूप एवं प्रक्रिया | ३. व्यवसायिक हिन्दी ४. निबंध लेखन | गद्य के विविध आयाम - १. डायरी - रवी घर, २. व्यंग्य - कर कमल हो गये. | ३. रिपोर्टीज - जहाँ आकाश नहीं दिखाई देता, ४. निबंध - कुरिती तोड़ो परिवार नहीं | ५. जीवनी - स्वामी दयानंद, १. मिडिया लेखन | २. वैज्ञानिक तकनीकी हिन्दी, बैकिंग अनुवाद, अशुद्धि शोधन | ४. मीडिया अनुवाद प्रश्नपत्र | |
| | | प्रयोजनमूलक हिन्दी तृतीय सत्र ऐच्छिक पेपर क्र. III | | | | | | | | | | |
| | | प्रयोजनमूलक हिन्दी चतुर्थ सत्र ऐच्छिक पेपर क्र. VIII | | | | | | | | | | |
| ३ | बी. ए. - II | १. हिन्दी भाषा : स्वरूप एवं विकास, हिन्दी - नामकरण एवं विकास | २. हिन्दी भाषा तथा मानकीकरण, विशेषताएँ, विकास यात्रा | ३. देवनागरी लिपि-उदभव और विकास, लिपि की वैज्ञानिकता | ४. प्रयोजनमूलक हिन्दी - स्वरूप एवं प्रयुक्तियाँ | ५. प्रयोजनमूलक हिन्दी - परिभाषा एवं स्वरूप तथा प्रयोगक्षेत्र | १. पारिभाषिक शब्दावली- निर्धारण सिद्धांत, समाधान | २. राजभाषा हिन्दी - राजभाषा और राष्ट्रभाषा, म. गांधी, डा. आंबेडकर | ३. प्रयोजनमूलक हिन्दी - लेखन पक्ष, प्रारूपण, टिप्पण संक्षेपण प्रतिवेदन | ४. प्रयोजनमूलक अनुवाद, वैज्ञानिक अनुवाद | ५. जनसंचार माध्यम - अनुवाद प्रश्नपत्र | |

| प्रादेशिक साहित्य पंचम सत्र विशेष पेपर क्र. IX | | | | | मध्यकालीन काव्य षष्ठम सत्र विशेष पेपर क्र. XIII | | | | | |
|--|---|---|-------------------------------------|--|--|---|---|----------------------------|--|--|
| ४ | बी.ए. - III कहानी, कविचर्चा, किचड, जानवर | १. कहानीयाँ, जो है वह ऐसा है, कर्जमुक्ति, कुत्ते | ३. कहानीयाँ, समांतर रेखाएँ, शांति | ४. पराया: लक्ष्मण माने, कथावस्तु एवं पात्र | ५. पराया: लक्ष्मण माने - भाषाशैली एवं उद्देश्य | १. भक्तिकालीन कविता-संवदना | २. भक्तिकालीन कविता-शिल्प विधान | ३. शैतिकालीन कविता: संवदना | ४. शैतिकालीन कविता: शिल्प विधान | ५. भक्तिकालीन, शैतिकालीन निष्कर्ष एवं उद्देश्य |
| आधुनिक कविता प्रथम सत्र ऐच्छिक पेपर क्र. II | | | | | | | | | | |
| ५ | बी.ए. - I पुरस्कृत परिचय, आधुनिक कविता | भारतेन्दु हरिश्चन्द्र, निजभाषा उन्नति, विविध कला शिक्षा | राष्ट्रसंत तुकडोजी महाराजकी कविताएँ | भारतमहिमा-जयशंकर प्रसाद, प्याला-बच्चन, प्रेत का बयान | सिंहासन खाली है, विधड़े में हिंदूस्थान, उतनी दूर मत ब्याहना बाबा, राहुल: खडकाव्य | पद्य परिमल, संत नामदेव, जायसी, संत कबीर, सूरदास | संत रैदास, संत मीराबाई, रहिम, संत तुकाराम | बिहारी, भूषण, घनानंद | महाकाव्यांश रामचरितमानस - तुलसीदास, सारांश | चरित्र, भक्तिकाव्य और लोकजीवन संदेश, उद्देश्य |


विभागाध्यक्ष
 DEPT. OF HINDI
 Anand Rao Dhonde Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed.


PRINCIPAL
 Anand Rao Dhonde Alias Babaji Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed



आनंद चॅरिटेबल संस्था आर्षी, स्वतंत्र
 आनंदराव धोंडे ऊर्फ बाबाजी महाविद्यालय, कडा
 ता. आर्षी जि. बीड
 हिन्दी विभाग

वार्षिक नियोजन २०२२-२०२३

प्रा. डॉ. जी. व्ही. मंडलिक

| अ. नं. | कक्षा | जुलाई | अगस्त | सितंबर | अक्टूबर | नवंबर | दिसंबर | जनवरी | फरवरी | मार्च |
|--------|---|--|--|--|--|--|--|--|--|--|
| १ | बी. ए. - I कथा द्वावतशी हिन्दी भाषा | पूस की रात ममता हार की जीत | एस.एल. पेपर I (सामान्य हिन्दी) | | सर्व श्रवण वाचन लेखन प्रयोजन मूलक हिन्दी | अमीर रससरो सत नामदेव सत कबीर | मंगलाई रहिम भूषण | आपोष्वासिंह उपाध्याय (हरिऔध) माखनलाल चतुर्वेदी | मैथिलिशरण गुप्त सुर्यकांत त्रिपाठी (निराला) | सुदामा पांडे (धूमिल) अटलबिहारी वाजपेयी |
| | | | मुगलाने सल्तनत बख्श दी तिसरी कसम डिप्टी कलेक्टरी हिन्दी भाषा उदरगम | आरिंकारलीन हिन्दी साहित्य की सामान्य विशेषताएँ | | | | | | |
| २ | बी. ए. - I | हिन्दी साहित्य का कालविभाजन एवं नामकरण | ऐच्छिक पेपर I (हिन्दी साहित्य का इतिहास) | | भक्तिकाल कबीर सुरदास तुलसीदास रहिम | भारतेंद्र हरिश्चंद्र सत गुरुजी महाराज | सुभद्राकुमारी चव्ढान जयशंकर प्रसाद हरिवंशराय बच्चन | रामधारीसिंह दिनकर भगवतीप्रसाद मिश्र नागार्जुन | दुष्यंतकुमार रामणी आम्रपकाश वालिकी | १. निर्मला पुरूल २. राहुल (खडकात्मक) जयप्रकाश कर्दीम |
| | | | आरिंकारलीन हिन्दी साहित्य की सामान्य विशेषताएँ | भक्तिकाल कबीर सुरदास तुलसीदास रहिम | | | | | | |
| ३ | बी. ए. - II | गद्यप्रभा (आलोक गुप्ता) | ऐच्छिक पेपर V | | गद्य गौरव (इरेश स्वामी) | प्रयोजन मूलक हिन्दी | प्रयोजन मूलक हिन्दी | प्रयोजन मूलक हिन्दी | प्रयोजन मूलक हिन्दी | प्रयोजन मूलक हिन्दी |
| | | | गद्यप्रभा (आलोक गुप्ता) | गद्य गौरव (इरेश स्वामी) | | | | | | |
| ४ | बी. ए. - III | हिन्दी साहित्य का इतिहास लेखन स्रोत एवं परम्परा | ऐच्छिक पेपर X | | भक्तिकाल कबीर सुरदास तुलसीदास रहिम | भारतेंद्र हरिश्चंद्र सत गुरुजी महाराज | सुभद्राकुमारी चव्ढान जयशंकर प्रसाद हरिवंशराय बच्चन | रामधारीसिंह दिनकर भगवतीप्रसाद मिश्र नागार्जुन | दुष्यंतकुमार रामणी आम्रपकाश वालिकी | १. निर्मला पुरूल २. राहुल (खडकात्मक) जयप्रकाश कर्दीम |
| | | | आरिंकारलीन साहित्य | भक्तिकाल कबीर सुरदास तुलसीदास रहिम | | | | | | |
| ५ | बी. ए. - III | अलंकार विचार परिभाषा/ प्रमुख भेद साहित्य का स्वरूप | ऐच्छिक पेपर XI (साहित्य शास्त्र) | | रसविचार | अलंकार / छंद प्रमुख भेद / १. मात्रिक २. तर्पिक | विधास्वरूप / विवेचन / दृश्य काव्य / श्रव्य काव्य | आलोचना स्वरूप तथा भेद | आलोचना के भेद | भेदों का परिचय |
| | | | अलंकार विचार परिभाषा/ प्रमुख भेद साहित्य का स्वरूप | रसविचार | | | | | | |

(Signature)

(Signature)
 PRINCIPAL
 Anandrao Dhonde Alias Babaji Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed



ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, KADA, ASHTI, BEED-414202.
ANNUAL TEACHING PLAN-2022-23 Subject: - Sociology

| Semester | Paper | Jun. | Jul. | Aug. | Sept. | Oct. | Semester | Nov. | Dec. | Feb. | Mar. | |
|--------------------------------------|--|---|---|---|--|--|--|---|--|--|---|--|
| B. A. I Sem - I | Introduction to Sociology Paper - I | Emergence of Sociology Definitions, Nature and subject matter of Sociology | Sociological imagination Diverse fields and career opportunities in Sociology. | Basic Concepts in Sociology Social Structure & Social System Groups | Culture, Inequality and Social Exclusion Culture, Social Exclusion, Social Inequality | Social Exclusion, Social Inequality | B. A. / I Semester - II | Society Definition and Meaning of Society Types of Society Community: Meaning, characteristics and Types | Social Process Social Process: Meaning Integrative Social Process Co-Operation and Accommodation and Assimilation Disintegration social process Competition & conflict | Nature of Social Change Factors Responsible to Social Change Ideology, Demographic | Science and Technology, Socio-Cultural and Education Social Media | |
| B. A. II Sem - III | Problems of Rural India Paper - V | Institutional Issues Disintegration of rural family | Problems of Rural women Education & Health, Domestic Violence Dowry | Education & Health, Dropout in Education problem of Illiteracy Community Health & Malnutrition | Rural Economy Problem of landless labourers Problems of Rural Industries Developmental Project and displacement | Major issues in Rural Development Rural unemployment causes & remedies Consumption in governmental schemes Indebtedness | Semester - IV Population in India Paper - VII | Basic Concepts Fertility, Mortality Density of Population | Human Population Dynamics Population growth & environment Sex ratios & female fertility Age Structure & Problem of Aging | Demographic Transformation Pre-industrial Stage Industrial stage Post-industrial Stage | Population Policy New population Policy in India Family welfare Programme World scenario & | China Experience of population |
| B. A. III Sem - V | Introduction to research methodology Paper - X | Basic concepts in research methodology Meaning of research | Scope & importance of social Research Theory, Facts, Objectivity | Types of research Pure & applied research Qualitative & Quantitative research | Descriptive Research & Exploratory Research Scientific Research Process | Formulation of problem Hypothesis Sampling & data Collection Data analysis & statement | Social Problems in India Paper - XI | Corruption & Crime Corruption in India & its implications (Nature & causes) White collar crime, suicide Measures on Corruption | Displacement & rehabilitation Displacement & Problems of Development projects (SEZ) problem of land acquisition for industrial project (Acts & Ambiguity) | Measures on rehabilitation problems Problem Of Inequality Educational Inequality (Poor, Weaker Sections & Women) | Rural India against urban India Globalization & increasing inequality | |
| B. A. III Sem - VI Paper - XIV | Social Research Methods | Techniques of sociological investigation | Observation Questionnaire Interview | Computer applications & statistics Use of computer in social research (computer data analysis) | Introduction of statistical measures Introduction of SPS, Utility of social Research | To analyze social problem, To study society & social structure, Evaluation of welfare schemes, policy Advocacy | Social Disorganization in Contemporary India Paper - XV | Problem of Disorganization Concepts & nature of social Disorganization Causes of social Disorganization | (population heterogeneity, lack of mobility, cynicism, underdevelopment, changing values & culture) | Violence & social disorder Violence against women Terrorism in India Problem of Naxalism in India Regionalism (concept), Regionalism | Factor of Regionalism (geographical, Historical, Social & political) Regionalism in India (causes & | Consequences) Analysis intriguing imbalance special reference to marathwada & Vidarbha |

Prof. Dr. Ashutosh B.B.
M.A., M.Phil., S.T., Ph.D.

HEAD
Dept. of Sociology
 Anand Rao Dhone Alias Babaji College
 Kada, Tal. Ashti, Dist. Beed-414202

PRINCIPAL
 Anand Rao Dhone Alias Babaji Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed

| वर्ग | चुन | जुलै | ऑगस्ट | सप्टेंबर | ऑक्टोबर | नोव्हेंबर | डिसेंबर | जानेवारी | फेब्रुवारी | मार्च | |
|--------|--|---|--|---|--|---|---|---|---|---|--|
| | सोमिस्ट पावळे - इतिहास लेखन शास्त्र पेपर क्र. IX | | | | | | इतिहासाच्या शाखा : पुरातत्त्व, संग्रहालय, पर्याटन शास्त्र पेपर क्र. XIII | | | | |
| BA-III | 1) इतिहास व्यास वीशिष्ट्ये, व्यापक ता. प्रकार इतिहास एकशास्त्र की कला | 2) इतिहास आणि शानाच्या इतर शाखा भुगोलशास्त्र पुरात्वशास्त्र भुगोल, समाज अर्थ व राज्यशास्त्र | 3) इतिहासाची साधने- वर्गीकरण, मुद्यामा पन व साधनांची सचना व विव्दसनिवता | 4) इतिहासाचे आधुनिक विचारवंत एके. माथिकटोयोबी 5) इतिहासाचा उपयोग व दुरुपयोग | 6) भारतीय इतिहास लेखनपध्दत साम्राज्यवादि, मार्क्सवादी, सोनीधिकारी 7) इतिहास संशोधन पध्दत | 1) पुरातत्व शास्त्राची प्रस्तावना-अर्थ प उद्दष्टे पुरातत्व शास्त्राचा संक्षिप्त अहवाल | 2) पुरातत्व शास्त्रातील प्रक्रिया पुरातत्वीय स्थळाचा शोधा उद्योग, वर्गीकरण कागददद्यांचे संग्रहीकरण. | 3) संग्रहालय राज्यशास्त्र व्याख्या, उदरेष्टे, कार्य उपयोग, वर्गीकरण कागददद्यांचे संग्रहीकरण | 4) पर्यटनशास्त्र व्याख्या उदरेष्टे भूमिका, प्रेम्णा पदटक व अभ्यास आणि सहल व व्यापारीदुर फरक | 5) पर्यटनाचे प्रकार अ) स्थानिक ब) प्रदेशिक क) राष्ट्रीय व 5) अंतरराष्ट्रीय पर्यटन | |
| | भारती स्वातंत्र चळवळीचा इतिहास (इ.स. 1885 ते इ.स. 1947), पेपर क्र.-X | | | | | | अधुनिक जागतिक इतिहासातील स्थलांतर पेपर क्र.-XIV | | | | |
| BA-III | 1) पाश्चात्तमी भारतात ब्रिटिश कार्याची स्वरुप चाणुगुकीची पध्दत योजना व्यवस्थापन | 2) भारतीय राज्यवाचा अर्थ कारणे आणि विकास | 3) भारतीय राष्ट्रीय काँग्रेस व राष्ट्रीय चळवळी काँग्रेस उदय | 4) क्रांतीकारी चळवळी, उदय स्वरुप व क्रांतिकारी चळवळीचा आवरणयतीता स्वातंत्र चळवळक्रांती भूमिका | 5) म.गांधी व राष्ट्रीय चळवळी 4) भारतीय विभाजनाचा उदय व भारताचे स्वातंत्र्यवा | 1) पुरातत्वीय प्रबोधन व धर्मसुधारणेची चळवळ | 2) अमेरिकेचे स्वातंत्र्यया शुध्द कारणे वाटचाल व परिणत | 3) फेच राज्यक्रांती कारणे, वाटचाल व परिणाम 4) औद्योगिक क्रांती- पाश्चात्तमी प्रांती व महत्त्व | 5) पहिले महायुद्ध कारणे व परिणाम 6) रशियन क्रांती कारणे, वाटचाल व परिणाम | 7) दुसरे महायुद्ध कारणे, वाटचाल व परिणाम | |
| | सोमिस्ट पावळे भारतीय स्वातंत्र चळवळीचा इतिहास (इ.स. 1757 ते इ.स. 1885), पेपर क्र.-XI | | | | | | सोमिस्ट पावळे मराठवाड्याच्या इतिहासावर एक दृष्टीक्षेप पेपर क्र.-XV | | | | |
| | ऐकिक विषय III Year | | | | | | ऐकिक विषय III Year | | | | |
| BA-III | 1) युरोपीय शक्तींचे भारतात आगमन च भारत विषय धारण व अर्थशास्त्र | 2) ब्रिटिश सत्तेचे विस्तारीकरण बंगाल, पंजाब, और्य, मैसूर, मराठे | 3) ब्रिटिश सत्तेचे टप्पे- प्रशासन व्यवस्था शिक्षण, वृचकचे मिशनरी व अर्थ व्यवस्था | 4) महसूल व्यवस्था उद्योग धंदे दळणवळण दुष्कळ योजना व व्यापार 5) सामाजिक व धार्मिक चळवळ | 6) वसाहतीला विरोध वाटपाचा व पुर्वाचा 7) राज्यवाचा उदय व काँग्रेस स्थाना | 1) मराठवाड्याचा राजकीय इतिहास | 2) धार्मिक चळवळी श्रावधार्द, बुध्दवाद, जैनवाद, महालुभव वीरीशव वारकरी वसुती चळवळी | 3) कणा आणि रथा, मंदिराची विारवकला व किल्ले | 4) निचाम कालीन सामाजिक, आर्थिक आणि सांस्कृतिक इतिहास | 5) हैदराबाद मुक्ती संग्राम सोविसर माहीती घेणे | |
| | प्रकल्प इहवाल पेपर क्र.-XII | | | | | | प्रकल्प इहवाल पेपर क्र.-XVI | | | | |
| | इतिहास विषयावर प्रकल्प अहवाल तयार करणे | | | | | | इतिहास विषयावर प्रकल्प अहवाल तयार करणे | | | | |



Anandrao Dhorde Alias Babaji College, Kada

Dept. of Physical Education
Annual Teaching Plan 2022-23

B. A III

| Class/Sub | June | July | August | September | October | November | December | January | February | March | |
|--------------------------|--|---|---|--|---|---|---|---|--|---|---|
| PHYSICAL EDUCATION - 301 | UNIT - I INTRODUCTION OF PHYSY IN ANCIENT INDIA. a) Vedic Period b) Epic Period c) Buddhist Period | UNIT - II PHY. EDU. IN THE STATE OF SPARTA AND ATHENS. a) Phy. Edu in Ancient Rome. b) Phy. Edu and moral Education. c) Phy. Edu in Mugrial Period | UNIT - III PHY. EDU. IN INDIA AFTER INDEPENDENCE. a) Phy. Edu in British Period. b) Ancient Olympic Games, Historical Background. c) Modern Olympic Games. UNIT - IV GOVERNMENT POLICIES IN PHY. EDU. a) Nature & Educational System in modern India. | b) Education & Physical Education Policies in India c) Central Advisory board of Physical Education UNIT - V SCHEME AND AWARDS RELATED TO PHY. EDU & SPORTS. a) Arjuna Award b) Dronacharya Award c) Rajiv Gandhi Khelratna Award. | UNIT - VI INSTITUTIONS OF PHY. EDU. IN INDIA. a) Y. C. M. O. U College of Physical Education of Madras. b) INPE Gwalior & NSNIS Patiala. c) HVPAM Amaravati | PHY. EDU. - 303 UNIT - VI ADMINISTRATION, Supervision In Physical Education Youth Welfare & Youth Services " | UNIT - I ORGANISATION & ADMINISTRATION. a) Meaning & Scope of Organization & Administration. b) Objectives of Organization & Administration. c) Guiding Principles of Organization. | UNIT - II ORGANIZING & CONDUCTING TOURNAMENTS a) Defereent types of tournaments & competition. b) Knock out league tournaments. c) Merits & Demerits of tournaments | UNIT - III INRTAMURALS PROGRAMME. a) Need and importance. b) Objectives of intramurals. c) Methods of grouping & fixture UNIT - IV EXTRAMURAL PROGRAMME. a) Need & Importance. b) Selection and coaching of team. c) Emotional Development of the Students. | UNIT - V SUPERVISION IN PHYSICAL EDUCATION. a) Meaning. Purpose & Scope of supervision. b) Objectives & Features. c) Qualities of Supervisor. | UNIT - VI YOUTH WELFARE & YOUTE SERVICES. a) Concept of youth welfare & youth services. b) Youth Organization in India. c) Social services. |

Legt. In Phy. Edu.
A. D. College, Kada

Vice Principal
Anandrao Dhorde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed



Anandrao Dhone Alias Babaji College, Kada

Dept. of Physical Education
Annual Teaching Plan 2022-23

B. A III (Main)

| Class/Sub | June | July | August | September | October | November | December | January | February | March | |
|---|--|---|--|--|---|---|---|---|---|---|---|
| PHYSICAL EDUCATION - 302 SEM - V SPORTS PSYCHOLOGY AND MANAGEMENT. IN PHYSICAL | UNIT - I PSYCHOLOGY IN PHYSICAL EDUCATION & SPORTS. a) Meaning, Nature and Scope of Sports | Psychology: b) Importance of Psychology in Sports; c) Limitation of Psychology in Education. UNIT - II GROWTH & DEVELOPMENT a) General Nature of Growth & Development. b) Age & Behavior Characteristics. c) Physical, Emotional & Social Development. | UNIT - III MOTIVATION. a) Meaning Need & Its role in Physical Education. b) Techniques of Motivation. c) Psychologic al Factor Influencing Motivation. | UNIT - IV MANAGEMENT IN PHYSICAL EDUCATION & SPORTS. a) Meaning, Definition & Philosophy of management. b) Aims, Objectives & Principles of Managements. c) Functions of Managements. UNIT - V TECHING METHOD IN PHYSICAL EDUCATION. a) Meaning, Types and factors affecting, b) Presentation Techniques Meaning and Factors. | c) Teaching Aids in Physical Education. UNIT - VI FACILITIES AND EQUIPMENTS. a) Care and Maintenance & Equipment's. b) Principles of Purchasing Office Equipments, Meaning & Principles. | PHYSICAL EDUCATION - 304 SEM - VI ANATOMY, PHYSIOLOGY & KINESIOLOGY FOR PHYSICAL EDUCATION | UNIT - I INTRODUCTION TO ANATOMY, a) Meaning, Need & Importance of Anatomy. b) Definition of cell, Meaning In structure, c) Blood Composition, Function & Circulation. | UNIT - II SKELETAL SYSTEM. a) Types of Bones & Its Functions. b) Definition of Cell, Meaning In structure. c) Blood Composition, Function & Circulation. UNIT - III INTRODUCTION TO PHYSIOLOGY a) Meaning Need & Importance of Physiology. b) Essential Properties of Living Organism. c) Vital Capacity & its measurement. | UNIT - IV MUSCULAR SYSTEM a) Meaning, Structure Function of Skeletal Muscles. b) Major Muscles of the body, c) Location of Major Muscles. | UNIT - V RESPIRATORY SYSTEM. a) Structure of Repertory organs. b) Function of Brain. c) Effect of Exercise on Repertory system. | UNIT - I INTRODUCTION TO KINESIOLOGY. a) Definition & Meaning of Kinesiology. b) Fundamentals 1 & Applied Kinesiology. c) Need & Importance of Kinesiology. |

A. D. College, Kada

Anandrao Dhone Alias Babaji Mahavidyalaya
Kada, Tal. Ashit, Dist. Beed

Vice Principal



Anandrao Dhone Alias Babaji College, Kada

Dept. of Physical Education
Annual Teaching Plan 2022-23

B. A. II.

| Class/Sub | June | July | August | September | October | PHY. EDU. 202 PAPER - V | November | December | January | February | March |
|-------------------------------------|---|---|--|---|--|---|--|---|--|--|---|
| Phy. Edu. 201 Paper - IV SEME - III | UNIT - I HEALTH EDUCATION a) Concept and objectives of Health Education. b) Importance of Health Education. c) Principles of Health Education. | UNIT - II TEMPORARY HEALTH PROBLEMS a) Abuse of Alcohol and its effects on Individual, family and community, b) Eating Habits and its effect on Health. c) Effect of Drugs and Tobacco on Sports person. UNIT - III FAMILY AND HEALTH EDUCATION a) Meaning functions and importance of family as a social institution | . b) Role of parents in child Health Care. c) Health Care during Disasters. UNIT - IV RECREATION IN PHYSICAL EDUCATION AND SPORTS. a) Meaning, Need Scope of Recreation b) Principles of Recreation. c) Types of Recreation. | UNIT - V PLANNING PROGRAM OF RECREATION a) Urban Recreative Programme. b) Rural Recreation Programme. c) Industrial Recreative Programme. | UNIT - VI AGENCIES PROMOTING RECREATION a) Facilities of Recreation. b) Organization of Recreation. c) Leadership in Recreation. | PHY. EDU. 202 PAPER - V SEM. - IV Officiation, Coaching and Training Method s in Physical Education and Sports | UNIT - I OFFICIATING OF GAMES AND SPORTS a) Meaning and Definition of Officiating b) Importance of Officiating in Phys. Edu and Sports. c) Qualities of Good Officials d) Duties and Responsibilities of Official e) Rules and Marking System of Indian and Foreign Games. | UNIT - II COACHING OF GAMES AND SPORTS a) Meaning and Definition of Coaching b) Impedance of Coaching in Games and Sports c) Qualities of God Coach. d) Duties and Responsibilities of Coaches. | UNIT - III ORIGIN AND DEVELOPMENT OF GAMES AND SPORTS a) Fundamental and Advanced Skills of Indian Games. i) Kho-Kabaddi ii) Kho-Kho iii) Wrestling iv) Ball Badminton b) Fundamental and Advanced Skill: of Foreign Games. j) Volley Ball ii) Soft Ball iv) Table Tennis. | UNIT - IV TRAINING METHODS IN GAMES AND SPORTS a) Need of Sports Training. b) Principles of Sports Training c) Factor's affecting the Sports Training. d) Procedure and Planning of Specific Training. | UNIT V TYPES OF TRAINING METHODS IN GAMES AND SPORTS a) Weight Training b) Circuit Training c) Fartlek Training d) Interval Training. |

Leg. in Phy. Edu.
A. D. College, Kada

Vice Principal
Anandrao Dhone Alias Babaji Mahavidyalaya
Kada, Tal. Ashiti, Dist. Beed



B. A. I.

Anand Rao Dhonde Alias Babaji College, Kada
 Dept. of Physical Education

Annual Teaching Plan 2022-23

| Class/Sub | June | July | August | September | October | November | December | January | February | March | |
|--|---|---|--|---|--|--|---|--|---|---|--|
| Phy. Edu. 101 Paper - I Sem I Philosophical, Sociological Foundations and History of Physical Education | Unit - I PHILOSOPHICAL FOUNDATIONS a) Meaning and Definition of Philosophy of Phys. Edu b) Components of Philosophy of Phys. Edu Application in the field of Phys. Edu. c) Traditional and Modern Philosophies their implication in the programme of Edu. | d) Philosophies of Edu applied to Phys. Edu. i) Idealism ii) Naturalism iii) Realism and iv) Humanism UNIT - II SOCIOLOGICAL FOUNDATIONS a) Sociological Basis of Phys. Edu. b) Social Environment for development of individual Personality. c) Socialization and Sports. d) Social Nature and Social Recognition | UNIT - III INTEGRATION OF PHYSICAL EDUCATION WITH OTHER FACULTIES. a) Interaction of Phys. Edu with History b) Integration of Phys. Edu. with Psychology. c) Integration of Phys. Edu. with Sociology. UNIT - IV NATURE OF PHYSICAL EDU. SYSTEM a) Ancient India and Mediaeval India. b) Phys. Edu. in Ancient Civilization with reference to i) India ii) Greece iii) Rome iv) Egypt c) Development of Phys. Edu. With special reference to i) U.S.A ii) U.S.S.R iii) Germany | UNIT - V PHYSICAL EDUCATION IN INDIA DURING 20 th CENTURY a) Meaning Definitions, Aims and Objectives of Phys. Edu. b) Phys. Edu. Training Institutions c) Phys. Edu. after Independence e. i) Central Advisory Board of Phys. Edu. ii) All India Council of Sports (AICS) iii) Netaji Subhash National Institute of Sports (NSNIS) iv) Laxmibai National Institute of Phys. Edu. (LNIPED) v) Sports Authority of India (SAI) | UNIT - V HISTORICAL DEVELOPMENT OF ANCIENT AND MODERN OLYMPIC GAMES a) Philosophy of Olympism and its impact on sports movements in India. b) Current Trends in Phys. Edu. i) Role of Federations and Associations. ii) Courses and Coaching Centres. iii) Policies of Central Government For Phys. Edu. and Sports. c) Movements of Akhada and Vayam Shalas in Maharashtra. | Phy. Edu. 102 Paper - II Sem I Principles and recent development of Physical Education | UNIT - I PRINCIPLES OF PHYSICAL EDU. a) Biological Principles of Phys. Edu. b) Sex Differences c) Principles of exercise. d) Body Types. UNIT - II SOCIOLOGICAL PRINCIPLES OF PHY. EDU. a) Social Values and Development of Traits. b) Social Welfare c) Physical Edu. As Sociological Agency. | UNIT - III CLASSIFICATION OF CHILDREN a) Psychological Bases of Classification. b) Biological Characteristics of Children. c) Physiological and Sociological Characteristics of Children. | UNIT - IV RECENT DEVELOPMENT OF PHYSICAL EDUCATION a) Status of Phys. Edu and Sports in Educational Institutions. b) Phys. Edu at Pre-Primary and Primary School Level. c) Phys. Edu at University and Professional Level. | UNIT - V SPORTS AND GAME ORGANISATION IN INDIA a) District Level Organizations. b) State Level Organizations. c) National Level Organizations. d) International Organizations. | UNIT - VI ROLE OF ASSOCIATION AND SPORTS BODIES a) Indian Olympic Associations (IOA) b) International Olympic Associations (IOC) c) Sports Authority of India (SAI) Central advisory Board of Physical Edu. and Recreation. |

Lect. in Phy. Edu.
A. D. College, Kada

Wca Principal
Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada Tal Ashli Dist Solapur

| | | | | | | | | | |
|---|---|--|---|---|--|--|--|---|---|
| (Main) | Chapter-I Meaning, Nature & Scope of Resource Geography, | Geography, significance of natural Resources | Resources: Biotic: forest, wildlife, livestock, fisheries, agriculture, crops. Abiotic: Land, water, & minerals | Conservation of major resources | | no. XVII Biogeography Introduction about Syllabus | Chapter II Environment, Habitat, & Plant animal association | Elements of plant Geography , Distribution of forest , successions in newly formed landforms. Examples from flood plains & Glacial fore field | Zoogeography & Its Environmental Relationship. Chapter IV Ecosystem forms & Function National forest policy of India |
| Practical Subsidiary V & VI Semester XVII (subsidiary) | Introduction about syllabus | Unit 1. Measures of Central Tendency Mean median | Median & mode | Unit 2. Mean Deviation Quartile Deviation | Standard Deviation | Practical Subsidiary V & VI Semester XVII | Unit -03 Correlation Spearman's Method | Karl Pearsons Method Unit 4. Regression equation by least square method Regression Line X on Y & Yon X Chi-square test | Unit 5. Participation in Geographical tour/excursion Report Writing Practical checking & submission |
| Practical XVIII | Introduction about syllabus | Unit -1. A. Introduction of Instrumenta l survey. Chain & tape survey | Plane table survey & prismatic compass survey B. Open & close traverse methods | Unit -2. A.) Representation of bearing Whole circle Reduced bearing FB, BB, of WCB CONVERSION OF BEARING | CONVERSION OF BEARING WCB in to RB | Practical | CONVERSION OF BEARING WCB in to RB | Correction of bearing Closing error by Bowditch method Height determination by Abney level | Participation in Geographical tour/excursion Practical checking & submission |
| Project work practical XIX | Introduction about syllabus | Distribution of project title to the students Frame work analysis & methods of research | Frame work analysis & methods of research Data collection | Data collection | Data collection | Project work practical | Project writing | Project writing Proof checking & binding | Proof checking & binding Project checking & submission |

Handwritten signature

Dept. of Geography
Anandwadekar
Kada, Tal. Ashai, Dist. Beed

Principal
Anandwadekar
Kada, Tal. Ashai, Dist. Beed

Handwritten signature

ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, KADA, ASHTI, BEED-414202.
ANNUAL TEACHING PLAN- 2022 – 2023




Subject: - Geography

Teacher Name - Dr.Narsale D. V.

| Sep | Oct. | Nov | Dec | Janewari | Feb | March | April | May | June |
|--------------------------|---|---|---|---|---|--|--|---|--|
| Jul. | Aug. | Sept. | Oct. | Nov. | Feb | Janewari | April | Mar. | April |
| | *Introduction of Human Geography *definition ,Nature & scope of Human Geography man & Environment | * man & Environment Relationship *Types of Environment . Concept of Determinism and Possibilism ,stop and Go deterministic Approach . Physical & Social profile of Racial Groups , I) linear scale II)comparative scale II) Diagonal scale . Methods of showing Relief | Physical & Social profile of Racial Groups , Ethnic Groupa , Tribal groups in world and india. Eskimos , Bushmen . Representatio n of slopes by contours even and uneven . Gentle and steep | Ethnic Groupa , Tribal groups in world and india . Masai ,Gonds , Gujar | Hydrology c. settlement : <i>सहस्रक</i> | Position & personality : Location ,size & shape , Relief and physical division of Maharashtra . * climate , *Drainage. | Maharashtra soil and natural vegetation of Maharashtra . Agriculture : cropping patter Major crops – jowar , wheat , Rice , sugarcane , oilseeds . Conventional signs & symbols of SOI Maps . 1) Relief 2) Human settlement 3)Drainage 4) Troansportation. | Agriculture : cropping patter Major crops – Pulses - Geogropduction production & Distribution. Industries : cotton and Textile Industries ,sugar Industries Transportation : Raod and Railway transport | Transpiration : Raod and Railway transport . |
| <u>Admission process</u> | | | | | | | | | |

| | | | | | | | | | |
|--|---|---|--|--|--|---|--|--|-------------------------------|
| <u>missi</u> <u>process</u> <u>Admission</u> | India in the context of south east and south Asia .India : A land of diversities , Unity within diversities , shape ,size physical landscape of India . | Drainage systems of India their functional significance Climate : Regional and seasonal variations of climate . thr Monsoons . | Soil type of India their distribution and characteristic s . | Natural vegetation : forest types & their distribution. in India | Agricultural Geography of India Nature & scope ,Significance & development of Agricultural Geography origin & dispersal of Agricultural policy India . | Agriculture in India. Agricultural Landuse , Cropping pattern Regional pattern of productivity in india . | Agricultural policy in India . Distribution and production of major crops in India . 1) RICE 2) WHEAT 3) JOWAR | Agricultural policy in India . Distribution and production of major crops in India 4) COTTON 5) SUGARCANE 6) TEA * Green Revolution in India . | * Green Revolution in India . |
|--|---|---|--|--|--|---|--|--|-------------------------------|


 PRVINRAJ
 Dr. Pravinraj Thande Alias Babaji Mahavideykraya
 Koda, Tal. Ashli, Dist. Beed



Anandrao Dhonde Alias Babaji College, Kada
Tal - Ashti, Dist - Beed
Annual Teaching Plan 2022-23
Department of Public Administration

| Class | B.A. I (I Sem) | | | B.A. III (V Sem) | | |
|-----------|---|---|---|--|--|--|
| | Paper I | Paper II | Paper IX | Paper X | | |
| Month | Admission Process | Admission Process | Admission Process | Admission Process | | |
| July | Admission Process | Admission Process | Admission Process | Admission Process | | |
| August | Public Administration Meaning, Nature, Importance, Organization | Evolution of Indian Administration, Constitution of frame work. | Human Resource Development. Role of Institutions in Human Resource Development. | Education, Meaning, objectives & Important historical background of education | | |
| September | Principals of Organization. Hierarchy system of control. | Union Government, Union Legislature. | Means of Human Resource Development. | Institutions in Higher Education. Quality control Institution in higher education. | | |
| October | Concept of Public Administration | Union Judiciary, Statutory & non Statutory bodies. | Human Resource Management. | Challenges before higher education in India | | |
| November | Public Relation | Act of 2005 | Human Resource Planning | Globalization & Higher Education. Impact & consequences | | |
| Month | B.A. I (II Sem) | | | B.A. III (VI Sem) | | |
| | Paper III | Paper IV | Paper XIII | Paper XIV | | |
| December | Maharashtra State | District Administration | Public Policy, Meaning, Objectives, Types & process | Indian Health Care System. | | |
| January | State Executive | District Collector | Public Policy, formulation | Health & Financial welfare ministry | | |
| February | State Legislature | Law & Order | Public Policy In India | National Rural Health Mission | | |
| March | State Judiciary | Key Posts in District Administration | Development Meaning & Concept. | Determinants of Health | | |
| April | Constitutional & Statutory bodies. | District Police Administration | Challenges before development | Challenges before Indian Health care system | | |

Prof. Anand B.M.
HEAD
Dept. of Public Administration
Anandrao Dhonde Alias Babaji
College, Kada, Tal. Ashti, Dist. Beed

VICE-PRINCIPAL
Anandrao Dhonde Alias Babaji College,
Kada, Tal. Ashti, Dist. Beed



Anand Rao Dhone Alias Babaji College, Kada
Dept. of Commerce

Annual Teaching Plan 2022-23

Dr. Aute P.N.

| Class/ Sub | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL |
|---|--|---|---|--|---|--|---|---|--|--|
| B.Com I Entrepreneurship Development | Concept of Entrepreneurship | Meaning, Nature & Importance | Role of Enterpr. in Eco. Development Theories & models of Enter. Development | Origin & Development of Enter. in India. Entrepreneur-Definition. Characteristic function/centre. | Enter. Develp. Programme-meaning, Need, Objective EDD, MCED. Quick start methods-Turn-key business multiply level marketing. | Set up a venture Preparation of project report. | Procedure of Registration with DIC or Local bodies, Procedure of formation of a private Ltd.com Innovation of in Enter. | Role of Financial institution in promoting Enter. MSIE DIC, Nationalized Banks, Co-operative Banks. | Enter. In ERP Era. Concepts of Liberalization & Globalization. Profiles of successful entrepreneurs- Barvale. | B.B. Thombare Sunil Rathbati a, Ram Bhogate, K. K. Dhool. |
| B.Com II Cost A/c | Cost A/c meaning & defn. Limitation of financial A/c. | Development of cost A/c function objects Limitations Material control purchase procedure classification of material coding of material | Store & handling of material handling costs Bincards Issue procedure methods of Pricing material | Simple Average, weighted average Labour-meaning & Defn., Labour control methods of wage payment time & price rate incentive | Overheads- allocation methods of distribution primary secondary distribution | Elements of cost preparation of cost sheet single or output costing | Tender and quotations contract costing. | Contract Costing operating costing | Process costing | Reconciliation of cost & financial A/c. |
| B.Com II Banking & Insurance | Indian Banking systems Diff. Of Banks Type of Banks- commercial Banks Development Banks urban Co-opl Banks | Foreign Banks functions progress and performance II- co-operative banks in India structure of co-operative banks state co-operative Banks functions & progress. | Role of NABARD Reserve bank of India-objectives organization function monetary policy credit control measure. | Financial Institutions- SDDBI LIC UTI Bank functions progress & performance Modern trends in Banking, I-Banking core Banking | Phone Banking Net Banking objective & Benefits Debt & credit card. | Introduction of Insurance meaning & function of Insurance | Signification of Insurance Socio-Economic Development LIC, Act 1956, IRDA-2000. | Fundamentals of Agency Law Diff. Of an Agent regulations Agents Compensation | Functions of the Agent-proposal form and other forms for grant of cover life insurance. | General Insurance Principles & Scope of general Insurance type of General Insurance. |
| B.Com III Auditing Concept | Auditing Concepts meaning Defn. | Types of Auditing II Audit Access - Audit Programme Audit note books. | III Internal check System | IV Vouching mean Defn. Obj. of Vouching Duties of auditor | V Verification of assets and Liabilities | I Audit of Ltd. Companies Company Auditor | II Cost & mgnt. Audit. Meaning Defn. Qualification of auditor | III Tax audit Scope of auditor role under Income tax | Auditing in an Environment Problems in an EDP environment | Computer audit Programme. |
| B.Com III Rural Development & Agriculture | Introduction. Meaning Defn. Significance of Rural Development Causes of Rural Backwardness | Rural Poverty and Unemployment: Definition of Rural Poverty Causes of Unemployment in rural India. | Rural Development in India: MGNREGS, PMGSY, Gramin Aarvas Yojana Training of rural Youth for self Employment | Agribusiness: Meaning of Agribusiness, Importance of Agribusiness. Scope of Agribusiness in India | Agricultural Marketing: Meaning of Agricultural Marketing. Scope of Agricultural Marketing. Importance of Agricultural Marketing. | Concept of Salesmanship: Essential skill & types of Salesmanship. Advertising & Publicity concept, Need and Importance Skills required being a Good Salesman | Process of Selling & Sales Promotion: Selling, model of Selling, concept of sales promotion Emerging techniques in Consumers Sales Promotion. | Advertising and Media of Advertising: Concept . Meaning, Need, Objectives of advertising, merits & Limitation of advertising. | Advertising Media: Types of Media, Newspaper, Magazines, Electronic Media Radio, Television, audio, visuals, Press Conference Web advertising. | Advertising Agencies: selection of advertising agency, agency Commission and Types and fee |

Head

Dept. of Commerce and Research Centre

Anand Rao Dhone Alias Babaji College, Kada, Tal. Ashti, Dist. Beed

PRINCIPAL

Anand Rao Dhone Alias Babaji Mahavidyalaya

Kada, Tal. Ashti, Dist. Beed

Dr. P. N. Aute



Anand Charitable Sanstha Ashti's
**Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal.
Ashti. Dist. Beed. (M.S.)**

Annual Teaching Planning

(Academic Year: 2022-2023)

Class: B. Sc. First Year (Semester - II)

Subject: CHE-211 Physical Chemistry

Name of the Lecturer: Dr. D. B. Jirekar

| Sr. No. | Month | Unit | Subunit |
|---------|------------------|---|--|
| 1. | November | Unit- I: Chemical Energetics A) Thermodynamics | Basic concepts of Thermodynamics: System, Surrounding, boundary. Types of systems. State and path functions. Thermodynamic Process, Intensive and Extensive properties. First law of Thermodynamics. Spontaneous and Non-spontaneous processes. Second Law of Thermodynamics. Carnot Cycle and its efficiency. Entropy, Physical significance of entropy. Third law of Thermodynamics. Calculation of absolute entropies of substances. |
| 2. | December | B) Thermochemistry | Concept of standard state, standard enthalpy of formation. Hess's law of constant heat Summation and its applications. Bond dissociation energy and its calculations from thermochemical data. Temperature dependence of enthalpy, Kirchhoff's equation. |
| 3. | December-January | Unit- II: Chemical Equilibrium: | Free energy change in chemical reactions. Thermodynamic derivation of the law of chemical equilibrium. Relation between K_p , K_c and K_x . For reactions involving ideal gases. Le Chatelier's Principle. |
| 4 | January-February | Unit- III: Gaseous State | Postulates of kinetic theory of gases and derivatives of the kinetic gas equation. Deduction of Gas Laws: Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation of real gases from ideal behaviour, van der Waals equation of state for real gases. critical Phenomena: PV isotherms of real gases. |
| 3. | February-March | Unit- IV: Chemicals Kinetics | Rate of reaction, Definition and units of rate constants. Factors affecting rate of reaction. (Nature of reactant, concentration, pressure, temperature and catalyst). Order and Molecularity of reaction. Zero order reaction, First order reaction, Characteristics of first - order reaction, examples. Pseudo-unimolecular reactions, examples. Second order reaction: Derivation of rate constant for equal and unequal concentration of the reactants. Characteristics of Second order reaction. Numerical on First order and Second order reactions. Arrhenius equation, Concept of energy of activation. |

Vice Principal

Anandrao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed

Head

Dept of chemistry
Anandrao Dhonde College
Kada Dist. Beed

Anand Charitable Sanstha Ashti's
Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal. Ashti, Dist. Beed. (M.S.)

Annual Teaching Planning

(Academic Year: 2022-2023)

Name of the Lecturer: **Dr. D. B. Jirekar**


Class: **B. Sc. Second Year (Semester- III)**

Subject: **Physical Chemistry. Paper No.VIII.**

| Sr. No. | Month | Unit | Subunit |
|---------|---------------------|-------------------------|--|
| 1. | July-August | 1) Thermodynamics: I | Defination of <i>Thermodynamic Terms</i> : System, Surrounding types of system, intensive and extensive properties. Thermodynamic Process, Concept of heat and work. Work done in reversible and irreversible process, concept of maximum work (W_{max}), Numerical problems. <i>First law of Thermodynamics</i> : Statement, Defination of Internal energy and Enthalpy. Heat capacity, heat capacities at constant volume pressure and their relationship. Calculation of W , q , du and dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Numerical problems, Hess's law of heat Summation and its application. |
| 2. | August-September | 2) Thermodynamic-II | <i>Second Law of Thermodynamics</i> : Need for the law, different statement of the law. <i>Carnot Cycle</i> and its efficiency, Numerical Problems. Carnot Theorem. Concept of <i>Entropy</i> : Definition, Physical significance, Entropy as a State Function, Entropy change in Physical change, Entropy as a criteria of Spontaneity & Equilibrium Entropy Change in Ideal Gases. Gibbs and Helmholtz Functions: Gibbs Function (G) and Helmholtz Function (A) as Thermodynamic Quantities. A and ' G ' as criteria for Thermodynamic Equilibrium and Spontaneity, their Advantage over Entropy change. Variation A with P , V and T . |
| 3. | September – October | 3) Chemical Equilibrium | Equilibrium Constant and Free Energy. Thermodynamic Derivation of Law of Mass Action. Le Chatelier's Principle. Reaction Isotherm and Reaction Isochore. Clapeyron Equation, Clausius-Clapeyron Equation and its Application. |


Head
Dept. of chemistry
Anandrao Dhonde College
Kada Dist Beed




PRINCIPAL
Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed

Annual Teaching Planning


(Academic Year: 2022-2023)

Name of the Lecturer: **Prof. D. B. Jirekar**

Class: **B. Sc. Third Year (Semester-V)**

Subject: **Physical Chemistry. Paper No. XIII.**

| Sr. No. | Month | Unit | Subunit |
|---------|-------------------|--|---|
| 1. | July-August | I. Elementary Quantum Mechanics | Black body radiation, Planck's radiation law, photoelectric effect, Bohr's modes of hydrogen atom (no derivation) and its defects. Compton effect. De Broglie Hypothesis, the Heisenberg's uncertainty principles, Hamiltonian operator, Schrödinger wave equation and its importance, physical interpretation of the wave function, postulates of quantum mechanics. Schrödinger wave equation for H-atom, separation into three equations (without derivation), quantum numbers and their importance. |
| 2. | August | II. Spectroscopy | Introduction - Electromagnetic radiation, regions of the spectrum, basic features of different spectrometers, statement of the born-oppenheimer approximation. Rotational Spectrum - Diatomic molecules, energy levels of a rigid rotor (semi classical principles), selection rule, rotational spectra of rigid diatomic molecule, determination of bond length, numerical problems. |
| 3. | September | III. Photochemistry | Introduction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry, Grothus - Drapper law, Stark-Einstein law, Jablonski diagram qualitative description of fluorescence, phosphorescence, non-radiative processes (Internal conversion, Intersystem crossing), quantum yield, photosensitized reactions. |
| 4. | September-October | IV. Physical properties and molecular structure | Optical activity and its measurement, dipole moment and its measurement by temperature change method, magnetic property and its measurement by Guoy balance method, Applications of optical activity, dipole moment and magnetic property for determination of structure of molecule. |
| 5 | October | V. Nano Material | Introduction to nano-materials Methods of Synthesis - i) High energy ball milling, ii) Physical vapour deposition (PVD) iii) Chemical vapour deposition (CVD) iv) Micro emulsion. Synthesis using micro-organisms and plant extract. |


Head
Dept. of Chemistry,
Anandrao Dhonde College,
Kada Dist Beed




PRINCIPAL
Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed



Anand Charitable Sanstha Ashti's
**Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal.
Ashti. Dist. Beed. (M.S.)**
Annual Teaching Planning

(Academic Year: 2022-2023)


Class: B. Sc. Second Year (Semester-III & IV)

Subject: Lab. Course – III (Paper No. IX)

Name of the Lecturer: Prof. D. B. Jirekar

| Sr. No. | Month | Unit | Subunit |
|---------|-----------|--|---|
| 1. | June | Non Instrumental (Any Five) | i. To determine critical solution temperature of Phenol- water system. ii. To determine solubility of benzoic acid at different Temperature and determine H of dissolution process. |
| 2. | July | Non Instrumental | iii. To determine heat of neutralization (Hn) of Na OH and HCl iv. To determine heat of neutralization (Hn) of Na OH and Acetic acid. v. Partition coefficient of Benzene-water system using benzoic acid. |
| 3. | August | Non Instrumental | vi. To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$. vii. Determine the molecular mass of polymer from viscometry measurements. viii. To investigate the Kinetics of iodination of Acetone. |
| 4. | September | Gravimetric Estimation: (Any Three) | i. Estimation of Zinc gravimetrically as Zinc ammonium phosphate ($ZnNH_4PO_4$) ii. Estimation of Mn gravimetrically as Manganese Ammonium Phosphate ($MnNH_4PO_4$) iii. Estimation of Nickel gravimetrically as Ni-DMG |


Vice Principal
Anandrao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed


Head
Dept. of Chemistry
Anandrao Dhonde College
Kada Dist. Beed



| | | | |
|----|----------|--|---|
| 5. | October | Gravimetric Estimation: | <p>iv. Estimation of Barium gravimetrically as Ba-Chromate (BaCrO_4)</p> <p>v. Estimation of Aluminum as Aluminum Oxinate.</p> <p>vi. To determine the equilibrium constant for the reaction: $\text{KI} + \text{I}_2 - \text{KI}_3$</p> <p>vii. Determine the molecular mass of polymer from viscometry measurements.</p> |
| 6. | December | Gravimetric Estimation: | <p>vii. Determine the molecular mass of polymer from viscometry measurements.</p> <p>viii. To investigate the Kinetics of Iodination of acetone.</p> <p>viii. To investigate the Kinetics of Iodination of acetone.</p> |
| 7. | January | Complexometric Titration: (Any Two) | <p>i. Estimation of Zinc by EDTA solution using EBT indicator.</p> <p>ii. Estimation of Nickel by EDTA using Murexide indicator</p> |
| 8. | February | Complexometric Titration: | <p>iii. Estimation of copper by EDTA using fast sulphon black F indication</p> |
| 9. | March | Complexometric Titration | <p>iv. Estimation of Lead By EDTA using Xylenol Orange indicator.</p> |

Vice Principal
Anandrao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed

Head
Dept of chemistry
Anandrao Dhonde College
Kada Dist Beed



Anand Charitable Sanstha Ashti's
**Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal.
Ashti. Dist. Beed. (M.S.)**

Annual Teaching Planning

(Academic Year: 2022-2023)

Class: B. Sc. Second Year (Semester-III & IV)

Subject: Lab. Course – IV (Paper No. XII)

Name of the Lecturer: Prof. D. B. Jirekar

| Sr. No. | Month | Unit | Subunit |
|---------|-----------|--|---|
| 1. | June | Instrumentation: (Any Five) | i. To determine normality and strength of HCl using (0.1N) NaOH Solution Conductometrically. ii. To determine normality and strength of acetic acid using (0.1N) NaOH solution Conductometrically. |
| 2. | July | Instrumentation: | iii. To determine normality and strength of HCl using (0.1N) NaOH solution by pH-metrically. iv. To verify Lambert-Beers Law using $KMnO_4$ solution. |
| 3. | August | Instrumentation: | v. To estimate the amount of Sugar using Polarimeter. vi. To determine refractive index of ethanol water system. vii. To determine indicator constant of indicator colorimetrically |
| 4. | September | Organic Derivatives:- Preparation, Crystallization and Physical Constant. (Any Three) | i. Acetyl Derivatives : a) Aniline b) Salicylic Acid ii. Benzoyl Derivatives : a) Aniline b) B-naphtol |
| 5. | October | Organic Derivatives:- Preparation, Crystallization and Physical Constant. | iii. Hydrolysis Derivatives : a) Ethyl Benzoate b) Aspirin iv. Bromo-Derivatives : a) Phenol b) Cinnamic Acid |

| | | | |
|----|----------|--|---|
| 6. | December | Organic Derivatives:- Preparation, Crystallization and Physical Constant. | v. Reduction Derivatives : a) M-dinitrobenzene vi. Osazone Derivatives : a) Sucrose b) Glucose |
| 7. | January | Organic Estimations: (Any Two) | i. Estimation of nitro group by reduction. ii. Estimation of glucose. |
| 8. | February | Organic Estimations: | iii. Estimation of ester by hydrolysis. |
| 9. | March | Organic Estimations: | iv. Estimation of amides by hydrolysis. |


 Vice Principal
 Anandrao Dhonde Alias Babaji Mahavidyalaya
 Kada, Tal. Ashti, Dist. Beed




 Head
 Dept of chemistrc
 Anandrao Dhonde College
 Kada Dist Beed



Anand Charitable Sanstha Ashti's
**Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal.
Ashti. Dist. Beed. (M.S.)**

Annual Teaching Planning

(Academic Year: 2022-2023)

Class: B. Sc. Third Year (Semester-V & VI)

Subject: Lab. Course – V (Paper No. XV)

Name of the Lecturer: Prof. D. B. Jirekar

| Sr. No. | Month | Unit | Subunit |
|---------|-----------|--|--|
| 1. | June | Binary Mixture: | i) Benzoic Acid + β -naphthol ii) Salicylic Acid + P- nitro aniline |
| 2. | July | Binary Mixture: | iii) β -naphthol + Acetanilide iv) m-nitroaniline + Naphthalene |
| 3. | August | Binary Mixture: | v) α -naphthol + O-nitroaniline vi) Cinnamic Acid + Naphthalene |
| 4. | September | Binary Mixture: | vii) Salicylic Acid + Naphthalene viii) β -naphthol + m-dinitrobenzene |
| 5. | October | Binary Mixture: | x) Salicylic Acid + β -naphthol |
| 6. | December | Inorganic Qualitative Analysis (Semi-Micro Analysis) | 1. Five mixtures of Semi-Micro Analysis. |
| 7. | January | Inorganic Qualitative Analysis (Semi-Micro Analysis) | 2. Separation of calcium and Barium and estimation of Ca-volumetrically. 3. Separation of Cu and Ni from binary mixture solution and estimation of Cu-volumetrically 4. Estimation of oxalic acid and H ₂ SO ₄ in a given mixture Solution using NaOH and KMnO ₄ solution. |
| 8. | February | Inorganic Qualitative Analysis (Semi-Micro Analysis) | 5. Estimation of Fe by potassium dichromate using diphenyl ammine indicator. 6. Estimation of available chlorine in the given sample of Bleaching powder. 7. Separation of calcium and Barium and estimation of Ba-gravimetrically. |
| 9. | March | Inorganic Qualitative Analysis (Semi-Micro Analysis) | 8. Separation of Cu and Ni from binary mixture solution and estimation of Ni-gravimetrically |

Vice Principal

Anandrao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed

Head

Dept of chemistry
Anandrao Dhonde College
Kada Dist Beed



Anand Charitable Sanstha Ashti's
**Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal.
Ashti. Dist. Beed. (M.S.)**

Annual Teaching Planning

(Academic Year: 2022-2023)

Class: B. Sc. Third Year (Semester-V & VI)

Subject: Lab. Course – VI (Paper No. XVIII)

Name of the Lecturer: **Prof. D. B. Jirekar**

| Sr. No. | Month | Unit | Subunit |
|---------|-----------|--|---|
| 1. | June | Organic Estimation | i. Estimation of Carbonyl group by hydrazone formation method ii) Estimation of vitamin C in commercial soft drink / Glucon D |
| 2. | July | Binary Mixture: | iii) Estimation of ascorbic acid iv) Estimation of Saponification value of oil |
| 3. | August | Organic Preparation and its purity by TLC | i) Preparation of Hydrazobenzene from azobenzene. ii) Preparation of Phthalic anhydride from phthalic acid. iii) Preparation of 2, 4 dinitrophenyl hydrazone of acetone. |
| 4. | September | Organic Preparation and its purity by TLC | iv) To prepare picrate of Naphthalene. v) To prepare picrate of Anthracene. Vi) preparation of p – bromo acetanilide from acetanilide |
| 5. | October | Instrumental: | 1. Determine the Strength of HCl and CH ₃ COOH in a given mixture by titrating against strong base conductometrically. 2. Determine the strength of oxalic acid conductometrically using sodium hydroxide solution. |
| 6. | December | Instrumental: | 3. To determine empirical formula of ferric -5-sulphosalicylate 4. Determine the amount of Fe ²⁺ in the given solution potentiometrically. |
| 7. | January | Instrumental: | 5. To determine the refractive indices of series of salt solutions and to find out concentration of the salt in given unknown solution |
| 8. | February | Non-Instrumental | 1. To determine the interfacial tension between two immiscible liquids. 2. To study the effect of addition of an electrolyte NaCl / KCl on the solubility of benzoic acid at room temperature. |
| 9. | March | Non-Instrumental | 3. To determine the standard free energy change ΔG_0 and equilibrium constant for the reaction. $Cu + 2 Ag^+ = Cu^{+2} + 2 Ag$ |


Vice Principal

Anandrao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed


Head

Dept of chemistry
Anandrao Dhonde College
Kada Dist. Beed

Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada.Tal.Ashti Dist.Beed(M.S.)
Annual Teaching Planning


(Academic Year : 2022-2023)

Name of the Lecturer : Dr. P. P. Ghumare

Class : T.Y. B.Sc. (Semester -VI)

Subject : Inorganic Chemistry. Paper No. XVI

| Sr. No. | Month | Unit | Subunit |
|---------|----------|--|--|
| 1 | Novenber | I Metal-Ligand Bonding in Transition Metal Complexes | Limitations of Valence Bond Theory An Elementary idea of Crystal Field Theory Crystal Field Splitting in Octahedral, Tetrahedral and Square Planar Complexes, Factors affecting Crystal Field Parameters |
| 2 | December | II Organometallic Compounds | Definition, Nomenclature and classification of Organometallic Compounds, Preparation, Properties, Bonding and Applications of alkyls and aryls of - Li, Al, Hg, Sn and Ti. A Brief account of metal - ethylenic Complexes, Nature of bonding in metal carbonyls. |
| 3 | January | III Electronic Spectra of Transition Metal Complexes | Types of Electronic Transitions Selection rules for d -d transitions, Spectro -chemical series, Orgel Energy level diagram for d1, d5 and d9 Electronic Spectrum of $[Ti (H_2O)_6]^{3+}$ complex ion. |
| 4 | January | IV Bioinorganic Chemistry | Essential and trace elements in biological processes Metalloporphyrins with special reference to hemoglobin and myoglobin Biological role of alkali (Na^+ , K^+) |
| 5 | February | V Chromatography | Definition and classification of chromatography Paper and Thin Layer Chromatography Method of Development (Ascending, Descending Chromatography) Locating Technique (UV-light / Chemicals) R f value, Comparison between paper and TLC Applications. |


Head
Dept of chemistry
Anandrao Dhonde College
Kada Dist Beed




PRINCIPAL
Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed

Anand Charitable Sansthas Ashti's
Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada.Tal.Ashti Dist.Beed(M.S.)

Annual Teaching Planning

(Academic Year : 2022-2023)

Name of the Lecturer : Dr. P. P. Ghumare

Class : S.Y. B.Sc. (Semester -IV)

Subject : Inorganic Chemistry. Paper No. X

| Sr. No. | Month | Unit | Subunit |
|---------|-------------|--|--|
| 1 | December | I Chemistry Of Elements Of First Transition Elements | General characteristic feature of d-block elements Properties of the elements of the first transition series: Ionic Size, Atomic Size, Metallic properties, Ionization potential, magnetic properties, Oxidation State. |
| 2 | January | II Co-ordination Compounds | Werner's Co-ordination Theory and its experimental verification effective atomic Number concept, chelates, nomenclature of co-ordination compounds, isomerism in co-ordination compounds, valence bond theory of transition metal complexes |
| 3 | February | III Chemistry of Lanthanide Elements & IV Chemistry of Actinides | Occurrence and Isolation of Lanthanides, Electronic Configuration Oxidation states, Ionic Radii, Lanthanide Contraction and its Consequences. Occurrence, Position in the periodic table, Electronic configuration. Oxidation State, chemistry of separation of Np, Pu and Am from U |
| 4 | March | V Acids and Bases | Arrhenius, Bronsted-Lawry, The Lux-Flood, Solvent System and Lewis Concept of Acids and Bases |
| 5 | March-April | VI Non- Aqueous Solvents | Physical Properties of a solvent, Types of Solvents and their general Characteristics, Reaction in Non-Aqueous Solvent with reference to liquid NH ₃ and liquid SO ₂ . |

P. P. Ghumare

Head

Dept of Chemistry
Anandrao Dhonde College
Kada Dist Beed



P. P. Ghumare

PRINCIPAL

Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed

Anand Charitable Sansthas Ashti's
Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada.Tal.Ashti Dist.Beed(M.S.)
Annual Teaching Planning

(Academic Year : 2022-2023)

Name of the Lecturer : Dr. P. P. Ghumare

Class : F.Y. B.Sc. (Semester -I)

Subject : Inorganic Chemistry. Paper No. I (CHE -111)



| Sr. No. | Month | Unit | Subunit |
|---------|--------------------|---|---|
| 1 | September | I. Atomic Structure & Periodic Properties | Atomic orbital's ,Quantum numbers ,Heisenberg uncertainty principle , shapes of s, p, d orbital's, Aufbau principle , Pauli exclusion principle, Hund's multiplicity rule, Electronic configurations of the elements, from Hydrogen to zinc. Bohr's atomic theory and its limitation. |
| 2 | September -October | I. Atomic Structure & Periodic Properties | Defination and trends in periodic table of the following properties, Atomic and Ionic radii, Ionization Energy, Electron affinity , Electro negativity, Factor affecting ionization energy, Pauling's and Mullikan's scale of electronegativity. |
| 3 | October - November | II. Chemical bonding and Molecular Structure(I) Ionic bonding | Defination and general characteristics of ionic bonding, factor affecting on an ionic bond formation, Lattice energy and their importance. Born Lande equation (no derivation) to calculate lattice energy. Born-Haber cycle for NaCl and its applications. Fajans rule, Applications of Fajans's rule for Polarizing power and polarizability, ionic character in covalent compounds, Dipole moment and percentage ionic character |
| 4 | November- | III. Chemical | Cocept of hybridization, different types of |

| | | | |
|---|----------|--|--|
| | December | bonding and Molecular Structure(II) covalent bonding | hybridization and geometry of following molecule on the basis of VBT. Linear geometry BeCl_2 , Planar trigonal geometry BF_3 , Tetrahedral geometry SiCl_4 , trigonal bipyramidal geometry PCl_5 , octahedral geometry SF_6 , Pentagonal bipyramidal geometry IF_7 VSEPR theory assumptions explain the geometry of following irregular molecule on the basis of VSEPR theory. XeF_2 , ClF_3 , SF_4 , IF_5 . |
| 5 | December | iv. chemical bonding and molecular structure(iii) molecular orbital theory | Rules for the LCAO method, formation of bonding, antibonding and non bonding molecular orbital. types of overlaps- s-s, s-p and p-p combinations of atomic orbitals. energy level sequence for molecular orbital when $n=1$ & 2. mo diagram for homonuclear diatomic molecule of i & ii periods. i.e. (He_2 , Li_2 , B_2 , N_2 , O_2). molecular orbital diagram for heteroatomic diatomic molecule. CO, NO. bond order and its significance. |



Dr. Dattatraya B. Jirekar
 HEAD
 DEPT. OF CHEMISTRY
 Anandoo Dhotoo Ahas Babaji College
 Kada, Tal. Ashli, Dist. Beed

Anand Charitable Sanstha Ashti's
Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal. Ashti. Dist. Beed. (M.S.)

Annual Teaching Planning

(Academic Year : 2022-2023)

Name of the Teacher : **Dr. B. N. Gawade**

Class : **T. Y. B. Sc. (Semester-V)**

Subject : **Organic Chemistry. Paper No. XIV**



| Sr. No. | Month | Unit | Subunit |
|---------|-------------------|-------------------------------------|--|
| 1. | June-July | I. Spectroscopy | Nuclear magnetic resonance (NMR) spectroscopy. Proton magnetic resonance (¹ H NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, areas of signals, interpretation of PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1, 2, 2 tribromoethane, ethyl acetate, toluene and Acetophenone. Problems pertaining to the structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques. (Combine and single λ max using woodwardfischer rule) |
| 2. | July-August | II. Organometallic Compounds | Organomagnesium compounds: The Grignard reagent formation, structure and chemical reactions. Organozinc compound, formation and chemical reactions, organolithium compound, formation and chemical reactions. |
| 3. | August-September | III. Organic Synthesis via Enolates | Defination, Active methylene compounds, Preparation of Aceto acetic ester, (Claisen condensation with Mechanism), Acidity of alpha hydrogen, properties and reactions involving formation of mono, di and unsaturated carboxylic acids, also synthesis of ketone, di ketone, 4-methyl uracil from acetoacetic ester, keto-enol tautomerism. Preparation of diethyl malonate, properties and reactions involved in alkylation, formation of mono, di and unsaturated carboxylic acids, and also synthesis of glycine and barbutric acids from diethyl malonate. |
| 4. | September-October | IV. Fats, oils and detergents | Natural fats, edible and industrial oils of vegetable origin, manufacture of soyabean oil by solvent extraction method and isolation and uses of essential oils. Types of animals fats and oils and defination of saponification value, iodine value, and acid value. Detergents: Defination, Introduction and preparation of sodium alkyl sulphonate, alkyl benzene sulphonate, and amide sulphonate, (one example each), Cleansing action of detergent. |

Sign. of the Teacher

Head

Principal

Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed.

Dept. of Chemistry
Anandrao Dhonde College
Kada, Dist. Beed.

Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed.

Anand Charitable Sanstha Ashti's
Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada. Tal. Ashti. Dist. Beed. (M.S.)



Annual Teaching Planning

(Academic Year : 2022-2023)


Name of the Teacher : Dr. B. N. Gawade

Class : S. Y. B. Sc. (Semester-III)

Subject : Organic Chemistry. Paper No. VII

| Sr. No. | Month | Unit | Subunit |
|---------|-------------------|----------------------------------|---|
| 1. | June-July | I. Alcohols | Defination: <i>Monohydric Alcohols</i> : Methods of Formation by reduction of Aldehydes, Ketones, Carboxylic Acids and Esters (One eg.each) Acidic Nature, Reactions of Alcohols. <i>Dihydric Alcohols</i> : Method of Formation of Ethylene Glycol-industrial method and From Alkene using OsO ₄ , Chemical reactions of Ethylene Glycol-nitration, Acylation, Oxidation (Using Pb(OAc) ₄ without Mechanism Pinacol-Pinacolone rearrangement, <i>Trihydric Alcohols</i> : Preparation of Glycerol from propene, Reactions of Glycerol. |
| 2. | July | II. Phenols | Preparation of Phenol from Chlorobenzene, Cumene and Benzene Sulphonic Acid, Physical properties, Acidic Nature of Phenol, Resonance stabilization of Phenoxide Ion. Reactions of Phenols- Electrophilic Aromatic Substitution, Acylation, Carboxylation (Without Mechanism) Reactions with Mechanism- intramolecular Fries Rearrangement, Claisen Rearrangement, Gatterman Synthesis and Reimer Tiemann Reaction. |
| 3. | July-August | III. Aldehydes and Ketones | <i>Aldehydes</i> : Preparation of Aldehydes from Acid Chloride, Gattermann-Koch synthesis <i>Ketones</i> - Preparation from nitriles and from Carboxylic Acid, Physical Properties of Aldehydes and ketones. Mechanism of Nucleophilic Additions to Carbonyl Group with particular emphasis on Benzoin, Aldol Knoenenagel condensations, Mannich Reactions. Use of Acetals as Protecting Group. Oxidation of Aldehydes using Chromium Trioxide, Baeyer-Villegger Oxidation of Ketones. |
| 4. | August-September | IV. Carboxylic Acids | Acidity of Carboxylic Acids, Effects of substituents on Acid strength, preparation of Acetic Acid from CO ₂ from Nitriles, from Acid Chloride, Anhydride, Ester and Amide. Physical Properties and reactions of Carboxylic Acids-Synthesis of Acid Chloride, Ester and Amide, Hell-Volhard-Zelinsky Reaction. Reduction using LiAlH ₄ , Mechanism of Decarboxylation, Hydroxyl Acids- Malic, Tartaric and Citric Acid. Methods of Formation and Chemical reactions of Acrylic Acid. |
| 5. | September-October | V. Organic Compounds of Nitrogen | Preparation of <i>Nitroalkanes</i> and <i>Nitroarenes</i> . Chemical reactions of Nitroalkanes. Nitration of Benzene and Their Reduction in Acidic, Neutral and Basic media. <i>Amines</i> - Basicity of Amines, Amine Salt as PTC. Preparation of Alkyl and Aryl Amines (Reduction of Nitro Compounds, Nitriles) Reductive Amination, Hoffmann Bromamide Reactions. Reactions of Amines- Electrophilic Aromatic Substitution in <i>Aryl amines</i> , Reactions of Amines with Nitrous Acid. |


Sign. of the Teacher


Head
Dept. of Chemistry
Anandrao Dhonde College
Kada Dist. Beed


Principal
Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed

Anand Rao Dhonde Alias Babaji Mahavidyalaya Kada

ANNUAL TEACHING PLAN- 2022-23

Dept. of Zoology

First Term (I, II and III Year)

Dr. B. S. Khaire



| Semester | Paper | July 2022 | Aug. 2022 | Sept. 2022 | Oct. 2022 | Nov. 2022 |
|----------|------------------------|---|---|--|---|--|
| I | II Theory Cell Biology | Admission Process Introduction Topic -1 - Structure of Prokaryotic and Eukaryotic cell, Cell cycle, Mitosis, Meiosis | Topic -2 Organization of Cell -Plasma Membrane -E. R. , -Mitochondria -Nucleus, -DNA - Types of RNA - Lysosomes | - Ribosomes - Cytology of Cancer Micro-technique Topic - 3 Methods in Cell Biology -Light Microscope | - Phase Contrast Microscope -Electron Microscope -Micro techniques Diwali Holidays | Term end Exam |
| | III Practical | Study of Cell Organelles | - Mitosis - squash preparation to study mitosis | Polytene chromo. of fruit fly / chironomus larva | Polytene chromo. of fruit fly / chironomus larva | |
| III | VII Vertebrate Zoology | Admission Process | Mammalia -Ratus -ratus External Features | Blood Vascular system Urrogenital system | • Adaptive radiations • Placentation | Term end Exam |
| III | IX Practical | Museum study of vertebrates | • Dissections Scoliodon/ Labeo • Rat/Frog | Mounting Cycloid, Ctenoid/ Placoid Scales | Embryological Development of Chick Visit to Zoological Park | Term end Exam |
| V | XV Theory Ecology | Admission Process Topic I Introduction to Ecology Definition • Concept • Terminology used in Ecology | Topic 2 Abiotic Environmental Factors • Light • Temperature • Moisture & Salinity Topic -2 Biotic environmental Factors • Competition • Predation • Parasitism | • Commensalism • Mutualism Topic -4 Population Introduction • Characteristics of population • Population Growth & Regulation Topic- 5 Community: Structure | • Characteristics of Community Topic -6 Ecosystems -Types of Ecosystems Introduction to major ecosystems in the world a. Pond / Marine ecosystem | b. Desert ecosystem Term end Exam |
| V | XVII Practical | Admission Process | Pract. No. 1 Estimation of Pond Productivity Pract. No.2 Soil Parameters • pH • Alkalinity | Soil Parameters • Chlorinity • Salinity Pract. No. 3 Water Parameters • DO • CO2 | Water Parameters • Chlorinity, Salinity Pract. No. 4 Study of association ships Pract. No. 5 Estimation of Population Density | Pract. No.6 -Preparation of Slides |

Vice Principal

Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Solapur



HEAD

Dept. of Zoology
Anand Rao Dhonde Alias Babaji

Second Term

Dr. B. S. Khairre



| Semester | Paper | Dec. 2022 | Jan. 2023 | Feb. 2023 | Mar. 2023 | Apr. 2023 |
|----------|---|---|--|---|---|---|
| II | Pr. – VI (Practical) | <ul style="list-style-type: none"> Study of museum specimen Dissections: Prawn - Nervous system Cockroach Digestive and Nervous Systems. | <ul style="list-style-type: none"> Pila - Nervous system Sea Star - Water Vascular System Mounting of Mouthparts | <ul style="list-style-type: none"> Salivary glands of cockroach. Redula of Pila, Pedicellaria of Star fish Culture of Drosophila | <ul style="list-style-type: none"> Determination of human blood groups Major and minor problems in genetics | <ul style="list-style-type: none"> Term end Exam |
| IV | Paper XII Biochemistry and Endocrinology | Section II Endocrinology Introduction to syllabus Introduction to Glands -Exocrine -Endocrine | Thyroid Gland Histological structure Functions of thyroid hormones Adrenal Gland -Histological structure -Functions of Adrenal Hormones | Pituitary Gland Structure of Pituitary Gland Structure and functions of Adenohypophysis Structure and functions of Neurohypophysis | Histology of Pancreas Pancreatic Hormones and their Functions | Term end Examination |
| IV | XIII | <ul style="list-style-type: none"> Study of digestive enzymes RBC/ WBC Counting | Preparation of Haematin crystals HB Percentage | Effect of isotonic, hypotonic Sol. On RBCs Detection of nitrogenous waste products | Estimation of O ₂ Histological study | Term end Examination |
| VI | VI Paper – XIX Evolution | Topic -1 Concept and organic evolution. --Theories of Organic Evolution -Bear's Law -Biogenetic law -Catastrophism -Lamarckism,-Darwinism -Germplasm | Topic -2 Origin of Life -Definition -Biogenesis, abiogenesis, chemical evolution Topic -3 Evidences of Organic Evolution Topic- 4 Darwinism -Natural Selection Theory -Artificial selection Sexual Selection | Topic -5 Elemental forces of Evolution -Mutation\ -Recombination -Natural selection -Isolation Genetic Drift Topic -6 -Basic patterns of Evolution -Sequential - -Divergent - Microevolution -Macroevolution -Mega evolution | Topic -7 -Species and Speciation Species-concept -concept Speciation: Allopatric, Sympatric and Parapatric Topic -8 <ul style="list-style-type: none"> Fossils - Definition - Fossil formation & types of fossils | Term end Examination |
| VI | XXI Practical | Pract. No.1 Embryological Evidences of evolution  | Pract. No.2 -Adaptive modification in feet of birds -Adaptive modification in mouth parts of insects Pract. No.3 Evolution of Man/Horse | Pract. No.4 Speciation -Allopatric -Sympatric Pract. No.5 -Homologous organs -Analogous organs | Pract. No.6 Study of Natural Selection  | Term end Examination |

Anand Rao Dhonde Alias Babaji Mahavidyalaya
Keda, Tal. Ashii, Dist. Beed

Dept of Zoology
Anand Rao Dhonde Alias Babaji

ANANDRAO DHONDE ALIAS BABAJI COLLEGE, KADA TQ, ASHTI, DIST. BEED.
Annual Teaching Plan- 2022 - 23



Subject :- Mathematics

Semester II, IV, VI

- 1) Dr. Bodhane D. S. (Head) : Paper no. : 202,401,402,602
2) Dr. Smt. G. S. Jagtap : Paper no. : 201,403,601,604

| Class | Paper | Dec. 2022 | Jan. 2023 | Feb. 2023 | Mar. 2023 | 2023 |
|------------|-------|--|--|--|---|---|
| B.Sc. I | 201 | Divisibility | Divisibility Congruence's | Congruence's | Some functions of Number Theory | Some Diophantine Equations |
| | 202 | Integration of Rational and Irrational Algebraic Fractions | Reduction Formulae | Definite integral and Rectification | Volume and Surfaces of Solids of Revolution | Integral Transformati ons |
| B. Sc. II | 401 | Difference operators, Interpolation with equal interval | Interpolation with unequal interval | Central difference interpolation formulae | Inverse interpolation | Numerical differentiatio n |
| | 402 | Linear Partial diff. equations of first order | Nonlinear Partial diff. equations of first order | Partial diff. equations of second order | Linear Partial diff. equations of higher order | Nonlinear Partial diff. equations of second order |
| | 403 | Kinematics & Dynamics of particle in two dimensions | Kinematics & Dynamics of particle in two dimensions | Kinetics of particle | Motion of projectile & motion in resisting medium | Central orbits |
| B. Sc. III | 601 | Limits in metric Spaces | Continuous functions on metric spaces | Connectedness Compactness Completeness | Calculus Fourier Series | Fourier Series |
| | 602 | Ring Theory | Ring Theory | Ring Theory | Ring Theory | Ring Theory |
| | 604 | Linear equations with variable coeff. | Linear equations with constant coeff. | Linear equations with variable coeff. | Linear equations with regular singular points | Linear equations with regular singular points |

Bodhane
HEAD

Dept. of Mathematics
Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed



S. Jagtap

PRINCIPAL
Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed



Annual Teaching Plan- 2022 - 23

Subject :- Mathematics

Semester I, III, V

1) Dr. Bodkhe D. S.(Head) : Paper no. : 102, 301, 302, 502

2) Dr. Smt. G. S. Jagtap : Paper no. : 101, 303, 501, 504

| Class | Paper | Aug. 2022 | Sept. 2022 | Oct. 2022 | Nov. 2022 |
|------------|-------|---------------------------------------|---|--|--|
| B.Sc. I | 101 | The Plane | Right line Application of Right line | Sphere | Cones and Cylinders |
| | 102 | Sets and Real Sequences | Functions of single variables | Successive Differentiation | Vector Differentiation |
| B. Sc. II | 301 | Divisibility theory in integers | Primes & their distributions | Theory of congruence's, Fermat's theorem | Euler's generalization of Fermat's theorem |
| | 302 | Special Function | Special Function | Laplace transformation | Laplace transformation |
| | 303 | Forces acting on particle | Equilibrium of forces acting on particle | Force acting on rigid body | Centre of Gravity |
| B. Sc. III | 501 | Prerequisite, functions | Sequences of real numbers | Series of real numbers | Jacobians |
| | 502 | Group Theory | Group Theory | Group Theory | Group Theory |
| | 504 | Preliminaries | Linear equations of first order | Linear equations of first order | Linear equations with variable coeff. |

HEAD

Dept. of Mathematics
Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed



PRINCIPAL

Anand Rao Dhonde Alias Babaji Mahavidyalaya
Kada, Tal. Ashti, Dist. Beed


ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, KADA DIST.BEED

Annual Planning 2022-2023


Dept. of Physics

Dr. R. G. Vidhate

| Class/Month | June | July | AUG. | SEPT. | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | JUL. |
|---|--|--|--|---|--|-------------------|---|---|--|---|-------------------|
| B.Sc.-II Paper No. VII & XII | C1- Differentiation and ordinary differential equation | C1- Differentiation and ordinary differential equation C2- Statistical basis and classical statistics | C2- Statistical basis and classical statistics C3- Quantum statistics | C3- Quantum statistics C4- Theory of Relativity | C4- Theory of Relativity | Examination start | C1- Crystal Structure | C2- Bonding and band Theory of solids C3- Thermal Properties of Solids | C3- Thermal Properties of Solids C4- Free electron theory of metals and transport properties | C4- Free electron theory of metals and transport properties Examination start | Examination start |
| B.Sc.-III Paper No. XVI & XX | C1- Electrostatics | C1- Electrostatics C2- Time varying fields | C2- Time varying fields | C3- Electromagnetic waves III | C4- Interaction of electromagnetic waves with matter | Examination start | C1- Non-Conventional energy sources | C1- Non-Conventional energy sources C2- Solar Photovoltaic system | C3- Introduction of optical fiber | C4- Fiber cables and fabrication | Examination start |


HEAD
Dept of Physics, Anand Rao Dhonde Alias Babaji College, Kada, Tal. Ashti, Dist. Beed




PRINCIPAL
Anand Rao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed

ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, KADA DIST.BEED

Annual Planning 2022-2023

Dept. of Physics

Prof. K. H. Katke

| Class/Month | SEPT. | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. |
|---------------------------------------|-------------------------------|--------------------------------------|--------------------------------|---|---|-----------------------|---|-----------------------------|-----------------------------|-------------------------|-----------------------|
| B.Sc.-I Paper No. I & IV | Admission Process | C1- Mechanics | C2- Elasticity | C3- Viscosity and surface Tension | C4- Ultrasonic and Acoustics | Examinati on start | C1- Geometical Optics and Optical Instruments | C2- Interference | C3- Diffraction | C4- Polarizati on | Examinati on start |
| B.Sc.-III Paper No. XV & XIX | C1- Classical Mechanics | C2-Origin of Quantum Theory | C3-Wave Particle Duality | C4- The Schrodinger equation and its application | C4- The Schrodinger equation and its application | Examinati on start | C1- The Atom model | C2- Vector atom model | C3- Molecular Spectra | C4- LASER | Examinati on start |

HEAD

Dept of Physics, Anandrao Dhonde Alias
Babaji College, Kada Tal. Ashti, Dist. Beed



PRINCIPAL

Anandrao Dhonde Alias Babaji College
Kada, Tal. Ashti, Dist. Beed