



Matsyodari Shikshan Sanstha's

Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024) : Department of Marathi

Month	Class: BAFY	Class: BA, B.Com, BSC, SY-SL	Class: BATY	Class: BATY
	Paper: 1 (निवडक अभंग)	Paper: 3 (गद्य - पद्य आणि उपयोजित मराठी)	Paper: 10 (भाषाविज्ञान)	Paper: 12 (प्रकल्पकार्य - 1)
	Semester: I	Semester: III	Semester: V	Semester: V
Jul-2023	जेव्हा गुराखी राजा होतो : निंबाजी पवार बॅरिस्टरच : हिम्मत बावस्कर	1. हसा आणि लठ्ठ व्हा - नि. फडकुले 2. बहुजन समाजाचे शिक्षण - भा. ल. भोळे 3. सागरास - वि. दा. सावरकर 4. कुणाच्या खांद्यावर - आरती प्रभू 5. आवाहन - दत्ता हलसगीकर 6. महापुरुषा ! - हिरा बनसोडे	भाषेचे स्वरूप व व्याख्या भाषेबाबत समज- गैरसमज	वाचन, लेखन कौशल्याचा विकास समीक्षादृष्टीचा विकास
Aug-2023	संत ज्ञानेश्वर संत गोरोबा संत नामदेव संत सेना	1. ऐसे जयाचे पाईक बळिया - कि. सानप 2. रमाई - यशवंत मनोहर 3. बियाणं - ना. पाटील 4. मराठी माती - वा. ना. आंधळे 5. पिंपळखोपा - नि. आल्ते 6. सुगंधी बाग आहे ती - शेख आबिद	स्वन स्वनिमविचार	अध्ययन - अध्यापन : लेखन कौशल्य
Sept-2023	संत चोखामेळा संत एकनाथ संत जनाबाई संत तुकाराम	1. निरोप - रा. तांगडे 2. काकणचोळी - अनिता यलमटे 3. झेप - उर्मिला चाकूरकर 4. अतिक्रमण - विशाल इंगोले 5. बिरसाईता - सखाराम डाखोरे 6. आळवण - विकास जगताप	रूप व रूपीम विचार	प्रकल्पाचे स्वरूप
Oct-2023	पाठ्यक्रमाचा आढावा	उपयोजित मराठी : वृत्तसंकलन व निवेदन, चॅटजीपीटी, सदर लेखन, सारांश लेखन.	बोली व प्रमाणभाषा	पाठ्यक्रमाचा आढावा



Month	Class: BAFY	Class: BA, B.Com, BSC, SY-SL	Class: BATY	Class: BATY
	Paper: 3 (निवडक ललित गद्य)	Paper: 4 (गद्य - पद्य आणि उपयोजित मराठी)	Paper: 14 (व्याकरण व निबंध)	Paper: 16 (प्रकल्पकार्य - 2)
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Dec-2023	बा शेतकाऱ्या : सानेगुरुजी पैस : दुर्गा भागवत गांधी आमचा: अनंत भालेराव विघ्नसंतोषी: विजय तेंडुलकर	1. श्रमजीवीका - विनोबा भावे 2. आईचं पत्र - र. मतकरी 3. घेता - विं. दा. करंदीकर 4. आकाशी झोप... - ज. खेबुडकर 5. जगात आलो असा - सु. भट 6. असे जगावे... - गुरु ठाकूर	शब्दांच्या जाती	वाचन कौशल्य
Jan-2024	विद्यार्थ्यास पत्र: शरद जोशी वन्यजीव : चितम पल्ली औरंगाबाद : रसाळ अरण्य : यलकुंचवार	1. कबीर फुले - जी. ए. उगले 2. शब्द - सुधा खराटे 3. मी असे कित्येक पाहिलेत... - दे. मदन 4. जमीन - के. देशमुख 5. वारकरी बाप - विनायक पवार 6. शोधा ज्याचे त्याने . नि देशमुख	संधीविचार	भाषा बोलीचे शब्दविशेष
Feb-2024	क्षमता : साळुंके संध्याकाळी : विनायक कुलकर्णी यशवंतराव : अनिल अवचट लेखक व्हायच : दत्ता भगत	1. केळेवाडी - मुरहरी केळे 2. आडोसा - लक्ष्मीकमल गेडाम 3. विकृतीची लक्षणे - धो. मानवतकर 4. शृंगार मराठीचा - संगीता कदम 5. भांडणाचा प्रश्न - डी. के. शेख 6. मला तो परत भेटला - सुदेश इंगळे	समाज व अलंकार	लेखन कौशल्य
Mar-2024	पाठ्यक्रमाचा आढावा	उपयोजित मराठी : संगणक व मराठी भाषा, सृजनात्मक लेखन, अग्रलेख, पत्रलेखन व टिपणी	निबंध	प्रकल्पलेखन



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Department of –MARATHI

NAME - Dr. S. S.PRADHAN

MONTH	Class-B.A.F.Y. .	Class-B.A.S.Y	Class-B.A.S.Y	B.A.T.Y	B.A.T.Y.
	Paper-II	Paper-V	Paper-VI	Paper -Ix	Paper xl
	Semester- II	Semester-V	Semester-VI	Semister -V	Semister -V
Jou-2023	अभ्यासक्रमाची माहिती प्रवेश प्रक्रिया कथा वाङ्मयाचे स्वरूप -प्रेरणा	प्रवेश प्रक्रिया नवीन अभ्यासक्र माची माहिती मध्ययुगीन मराठी वाङ्मयाचा इतिहास आरंभते 1599	प्रवेश प्रक्रिया नवीन अभ्यासक्रमाची माहिती साहित्यप्रकार कादंबरी	प्रवेश प्रक्रिया अभ्यासक्रम माहिती भारतीय साहित्यशास्त्र	प्रवेश प्रक्रिया अभ्यासक्रमाची माहिती
July-2023	निवडक कथा माहिती कथा वाङ्मयाची परंपरा कथा वाङ्मय, प्रकाराचा परिचय	प्रारंभ काल आद्यकवी मुकुंदराज महाराष्ट्र नामाभीधान उपपत्ती मराठी भाषेची पूर्वपिटिका आद्यकवी मुकुंदराज व त्यांची	कादंबरीचे स्वरूप विशेष अर्थ व्याख्या कादंबरीची परंपरा व प्रकार	साहित्याचे स्वरूप साहित्याची व्याख्या संस्कृती साहित्य इतिहास	भाषा साहित्य साहित्य इतिहास यांचा आढावा मध्ययुगीन मराठी वाङ्मयाचा इतिहास

 Aug 2023		ग्रंथसंपदा			
	आकाश- रघुनाथ मला नको ना बायको- अत्रे विद्रोह -बागुल पाणबळी - चंदनशिव	महानुभाव संप्रदाय व त्यांचे साहित्य, महानुभाव पंथाचे तत्त्वज्ञान, सर्वज्ञ चक्रधर व समकालीन महाराष्ट्र, महानुभावांचा आचारधर्म महानुभावांचे गद्य वाङ्मय महानुभावीय पद्यरचना	रणांगण विश्राम बेडेकर रणांगणाचे कथानक महायुद्धाची पार्श्वभूमी रणांगण मधील संवाद,विशेष,विरोध,समतोल रणांगणचे वाङ्मयीन मूल्यमापन भाषिक विचार शीर्षकाची अन्वर्थकता	प्रस्तावना घटक एक साहित्याचे स्वरूप व्याख्या लक्षणे घटक दोन साहित्याचे प्रयोजन हे ममताचे प्रयोजन भामह, दंडी, भरत मुनी	प्रारंभ काळात ते 1960 मराठीचा प्रारंभ काळ व मुकुंदराज महानुभाव पंथ आणि वाङ्मय कार्य महानुभाव पंथाचे तत्त्वज्ञान
Sep 2023	अल्पभूधारक मुसळे शल्य - उर्मिला पवार, नवा सूर्योदय भा.सासणे जाणीव- छाया महाजन	वारकरी संप्रदाय संत नाथ पूर्वकालीन कान्होपात्रा दासोपंत संत एकनाथ व त्यांच्या वाङ्मयीन अविष्कार नाथ समकालीन काही महत्त्वपूर्ण कवी संत तुकाराम	नदिष्ट मनोज बोरगावकर नदिष्ट चेहरा विहीण लोकांच्या जगण्याची दाहक वास्तव नदिष्ट मधील मानवतावादी दृष्टिकोन	साहित्य निर्मिती प्रक्रिया प्रतिभा उत्पन्नता अभ्यास व इतर पूरक कारणे	गद्यात्मक पद्धत साहित्य वारकरी संप्रदाय कवी पंचक जनाबाई चोखामेळा सावतामाळी विसोबा खेचर
Oct -2023	शिक्षण बोंब	जैन वीरशैव	नदिष्टचे नदिष्टचा	रसविचार	नरहरी सोनार गोरा कुंभार



मारतय - डोळस मेंदूची बाळ -सुबोध जावडेकर, रडणारी म्हातारी - खान,धादांत सत्य -जयंत पवार,चिरेबंद- आसाराम लोमटे. प्रकल्प लेखन	ख्रिस्ती व मुस्लिम धर्मीय कवींच्या रचना प्रकल्प मध्ययुगीन संतांची व महानुभाव पंथीयांची चरित्र संकलित करणे मधील कलाकृतीचे परीक्षण दोन संप्रदायातील तुलना प्रकल्प लेखनासाठी विषय सुचवणे	भाषिक विचार, नदिष्टचा मानसशास्त्रीय विचार एखाद्या कादंबरीचे परीक्षण कादंबरीकाराची मुलाखत यासंबंधी प्रकल्प लेखन	भटलोलो श्री शंकूक भटनायक अभिनव गुप्त यांच्या मतांचा विचार शब्दशक्ती अर्थ विचार	संत रामदास यांचे कार्य संत तुकारामांची गाथा शाहिरी वाङ्मय प्रेरणा व वैशिष्ट्ये पेशवेकालीन
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MONTH	Class-B.A.F.Y	Class-B.A.S.Y	Class-B.A.S.Y	B.A..T.Y	B.A. T. Y
	Paper- II	Paper-vll(opt)	Paper-vlll	Paper-XII	Paper-XV
	Semester- II	Semester-lv	Semester-vl	Semister-vl	Semester-vl
NOV-2023	अभ्यासक्रमा ची माहिती निवडक मराठी कविता आधुनिक	मध्ययुगीन मराठी वाङ्मयाचा इतिहास पार्श्वभूमी सोळाशे ते अठराशे अठरा नवीन अभ्यास पत्रिकेबद्दल माहिती	साहित्यप्रकार नाटक नवीन अभ्यास पत्रिके संबंधित माहिती	पाश्चात्य साहित्यशास्त्र माहिती अभ्यासक्रम घटक एक साहित्याचे स्वरूप, लक्षणे, चर्चा	पंडिती साहित्य प्रेरणा- स्वरूप विश्लेषण
DEC-2023	ना धो महानोर अनुराधा पाटील- प्रत्येकी पाच कविता	समर्थ रामदास व समर्थकालीन कवी समर्थ रामदासाचे वाङ्मय वेणाबाई समर्थकालीन इतर संत	नाटकाचे स्वरूप विशेष अर्थ व्याख्या, नाटकाची परंपरा व प्रकार	घटक दोन साहित्याचे प्रयोजने पलायनवाद कॅथॉरसिस आत्माविष्कार जिज्ञासा	पंडिती साहित्य वैशिष्ट्ये, पार्श्वभूमी, माहिती मुक्तेश्वर
JAN-2023	इलाही जमादार प्रज्ञा दया पवार - प्रत्येकी पाच कविता	पंडिती साहित्य पंडिती साहित्याच्या प्रेरणा पंडिती साहित्यातील कलात्मकता कामगिरी महत्त्वाचे पंडिती	कौतेय -वि वा शिरवाडकर या नाटकाचे संविधानिक कोणती कर्ण यांच्यातील संवाद सूत्र	घटक तीन साहित्याची निर्मिती प्रक्रिया फ्राईड युंग, प्रेस्कॉट, कोलरीज, एलियट	वामन पंडित, रघुनाथ पंडित, सामराज, श्रीधर, मोरोपंत शाहिरी वाङ्मय



		कवी व त्यांचे साहित्य			
FEB-2023	श्रीकांत देशमुख सौमित्र प्रत्येकी पाच कविता	शाहिरी काव्य व बखर वाङ्मय शाहिरी काव्याचे वैशिष्ट्ये, पोवाडा लावणी महत्त्वपूर्ण शाहिरींच्या रचना परिचय, विशेष	या नाटकातील वाङ्मयीन मूल्यमापन भाषिक विचार ऐतिहासिक व पौराणिकता	विविध पाश्चात्य साहित्यिकांचे विचार	प्रेरणा स्वरूप वैशिष्ट्ये परसराम राम जोशी होण्याची बाळा अनंत फंदी सगनभाऊ प्रभाकर यांच्या वाङ्मयाचा परिचय
Mar-2023	कल्पना दुधाळ प्रत्येकी पाच कविता प्रकल्प लेखन	शिवपूर्वकालीन, शिवकालीन पेशवेकालीन बखरी पंडितांची व शाहिरींची चरित्रे संकलित करणे प्रकल्प लेखन देणे	जन्माचा जोळा प्रतिमा इंगोले यामधील स्त्री-वाद, भाषिक विचार यामधील पात्रसृष्टी एखाद्या नाटकाचे परीक्षण नाटककाराची मुलाखत या संबंधित प्रकल्प लेखन देणे	सराव परीक्षा	बखर वाङ्मय शिवपूर्वकालीन, शिवकालीन, पेशवे कालीन, बखरी-परिचय समारोप. सराव

Prof. S. S. Pradhan

Principal
Miss S Arts, Science & Commerce College
Ambad Dist. Jaina-431204

Name of the Teacher: प्रा. दीपक भगवानराव राखुंडे

Department of Marathi



Month	Class: बीए बीए एस्सी प्रथम वर्ष Paper: I भारतीय भाषा (द्वितीय भाषा)	Class: बी.कॉम. प्रथम वर्ष Paper: I भारतीय भाषा (द्वितीय भाषा)
July	१) वचन- महात्मा बसवेश्वर २) रुंभणेयाचा दृष्टांत - केशिराज २) इये मराठिचिये नगरी - संत ज्ञानेश्वर २) मराठी ग्रंथकार सभेस पत्र - महात्मा फुले	१) वचन- महात्मा बसवेश्वर २) रुंभणेयाचा दृष्टांत - केशिराज ३) इये मराठिचिये नगरी - संत ज्ञानेश्वर ४) मराठी ग्रंथकार सभेस पत्र - महात्मा फुले
August	३) अवघा रंग एक झाला - संत सोयराबाई ३) स्त्री- पुरुष तुलना- ताराबाई शिंदे ४) पतित तू पावना- संत कान्होपात्रा ४) शील व सौजन्य- डॉ. आंबेडकर	३) अवघा रंग एक झाला - संत सोयराबाई ३) स्त्री- पुरुष तुलना- ताराबाई शिंदे ४) पतित तू पावना- संत कान्होपात्रा ४) शील व सौजन्य- डॉ. आंबेडकर
September	५) बाजार- संत एकनाथ ५) कला व जीवन - साने गुरुजी ६) चित्त शुद्ध तरी- संत तुकाराम ६) डोळे -अण्णाभाऊ साठे ७) चंदनाचा संग- संत बहिणाबाई ८) फटका- अनंत फंदी	५) बाजार- संत एकनाथ ५) कला व जीवन - साने गुरुजी ६) चित्त शुद्ध तरी- संत तुकाराम ६) डोळे -अण्णाभाऊ साठे ७) चंदनाचा संग- संत बहिणाबाई ८) फटका- अनंत फंदी
October	९) तयास मानव म्हणावे का- सावित्रीबाई फुले १०) आम्ही कोण- केशवसुत ११) देव दिसला- बहिणाबाई चौधरी १२) फुलराणी- बालकवी	९) तयास मानव म्हणावे का- सावित्रीबाई फुले १०) आम्ही कोण- केशवसुत ११) देव दिसला- बहिणाबाई चौधरी १२) फुलराणी- बालकवी
November	Exam Preparation of the Students	Exam Preparation of the Students

Month	Class: बीए बीए एस्सी प्रथम वर्ष Paper: - I भारतीय भाषा (द्वितीय भाषा)	Class: बी. कॉम. प्रथम वर्ष Paper - I भारतीय भाषा (द्वितीय भाषा)
December	१) या झोपडीत माझ्या- संत तुकडोजी महाराज २) प्रार्थना- कुसुमाग्रज २) ज्ञात अज्ञात -विनया २) खोप - रा रं बोराडे	१) या झोपडीत माझ्या- संत तुकडोजी महाराज २) प्रार्थना- कुसुमाग्रज २) ज्ञात अज्ञात -विनया २) खोप - रा रं बोराडे
January	३) भीमा तुझ्या मताचे- वामन कर्डक ३) बिनदरिदी- भीमराव वाघचौरे ४) सांगा कसं जगायचं- मंगेश पाडगावकर ४) क्लोरोफिल- रेखा बैजल	३) भीमा तुझ्या मताचे- वामन कर्डक ३) बिनदरिदी- भीमराव वाघचौरे ४) सांगा कसं जगायचं- मंगेश पाडगावकर ४) क्लोरोफिल- रेखा बैजल
February	५) आल्या जुळुन तारा ५) निश्चल डोंगरगाव- बाभुळगावकर शास्त्री ६) समाधान- फ.म. शहाजिंदे ६) लॉरी बेकर- देऊळगावकर	५) आल्या जुळुन तारा ५) निश्चल डोंगरगाव- बाभुळगावकर शास्त्री ६) समाधान- फ.म. शहाजिंदे ६) लॉरी बेकर- देऊळगावकर
March	७) जीवनाचा शोध- वाहरू सोनवणे ८) शिकवण- नारायण कवठेकर ९) कळा सोसताना- जगदीश कदम १०) जिवाचा आटापिटा ११) बाप म्हणायचा- इंद्रजीत भालेराव १२) युद्ध -निरजा	७) जीवनाचा शोध- वाहरू सोनवणे ८) शिकवण- नारायण कवठेकर ९) कळा सोसताना- जगदीश कदम १०) जिवाचा आटापिटा ११) बाप म्हणायचा- इंद्रजीत भालेराव १२) युद्ध -निरजा
April	Exam Preparation of the Students	Exam Preparation of the Students



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Singature of the Teacher

[Signature]

Principal

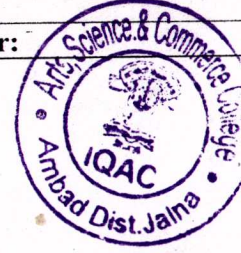
Principal

Mss s Arts, Science & Commerce College,
Ambad Dist. Jalna-431204

- Dipak Raichunde

Annual Teaching Plan (Year: 2022-2023) - 2023-24

Month	Class: M.A.F.U. Paper: Semester: I	Class: M.A.S.U. Paper: Semester: - III	Class: Paper: Semester:
June-2023	आधुनिक मराठी वाङ्मयाचा इतिहास कादंबरी, कथा, प्रवासवर्णने	साहित्य खगोलिका शब्द आस्थापक समिती	
JUN - 2023	भाषाविज्ञान : वर्णनात्मक, ऐतिहासिक	लोकसाहित्य लोककथा, गूणी, लोकगीत	
AUG - 2023	एका लेखकाचा अभ्यास आधुनिक - ना. झों. महानोर	मराठवाड्यातील साहित्य कविता, कथा, कादंबरी	
SEP - 2023	अडवाद निवार: लेखनिक उपयोग	मराठी साहित्य व चिंतन माध्यमांतर.	

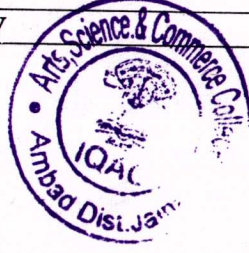


Principal

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2023-24)
Department ofMarathi.....

Name of Teacher: Dipak Raikhunde

Month	Class: <u>M.A. F.Y.</u> Paper No: <u>I, II, III</u> Semester: <u>II</u>	Class: <u>M.A. S.Y.</u> Paper No: <u>VIII, VII, VI</u> Semester: <u>III - IV</u>	Class: Paper No: Semester: <u>V</u>
Oct-2023	आधुनिक मराठी वाङ्मयाचा इतिहास 1818-1920 कविता - प्रकाट - कवींचा पत्थर आधुनिक कवितेचे स्वरूप	साहित्य समीक्षेची श्रुतते मानवशास्त्रीय समीक्षा समाजशास्त्रीय समीक्षा	
Nov- 2023	नाटक - प्रारंभ ते बुकीश नाटके * आधुनिक भाषाविज्ञान: वर्णनात्मक स्वरूप, स्वनिर्मित, स्वनांतर	माध्यमिक समीक्षा * लोकसाहित्य - लोकगीत, लोककथा, म्हणी	
Dec-2023	वाक्यविचार, परिभ्र, पद्योत्तर एका लेखकाचा अभ्यास: ना. धों. महानोर वरी, अर्जुन, रानातल्या कविता.	मराठवाड्यातील साहित्य - कविता, कथा, कादंबरी	
Jan- 2024	अनुवादविचार: ऐच्छात्मिक व उपयोजन.	* मराठी साहित्य व विक्रम माध्यमांतर	

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Annual Teaching Plan (Year: 2023 – 24)



Month	Class: B.A.F.Y.	Class B. Sc F.Y.:	Class: B.Com. F.Y.	Class: B.A.F.Y.	Class: B.A.F.Y.
	Paper: Hindi SL	Paper: Hindi SL	Paper: Hindi SL	Paper: Hindi III(opt)	Paper: Hindi IV(opt)
	Semester: II	Semester :II	Semester: II	Semester: II	Semester: II
Nov.	पाठ्यक्रम की जानकारी काव्य इन्द्रधनु अमीर खुसरो की पहेलियाँ	पाठ्यक्रम की जानकारी काव्य इन्द्रधनु अमीर खुसरो की पहेलियाँ	पाठ्यक्रम की जानकारी काव्य इन्द्रधनु अमीर खुसरो की पहेलियाँ	पाठ्यक्रम की जानकारी ऐच्छिक प्रश्नपत्र कथा साहित्य – II पाठ्यपुस्तक – कथोपदेश उसने कहा था, सदगति,	पाठ्यक्रम की जानकारी ऐच्छिक प्रश्नपत्र मध्ययुगीन कविता पद्य – परिमल संत नामदेव,
Dec.	- संत नामदेव - संत कबीर - मीराबाई - रहीम	- संत नामदेव - संत कबीर - मीराबाई - रहीम	- संत नामदेव - संत कबीर - मीराबाई - रहीम	सिक्का बदल गया, घुसपैठिंग, तसवीह, केशर कम्तूरी,	संत कबीर, संत रैदास, मलिक महोम्मद जायसी, सूरदास, संत मीराबाई
Jan.	- भूषण - हरिऔध - पुष्प की अभिलाषा परखा परीक्षा	- भूषण - हरिऔध - पुष्प की अभिलाषा परखा परीक्षा	- भूषण - हरिऔध - पुष्प की अभिलाषा परखा परीक्षा	सिमटती खाई, आखरी शर्त, पाँचवा बेटा, परख परीक्षा	रहीम, संत तुकाराम, बिहारी, परख परीक्षा
Feb.	- शिक्षा की अवस्था - वह तोड़ती पत्थर - रोटी और संसद -कदम मिलाकर चलना होगा	- शिक्षा की अवस्था - वह तोड़ती पत्थर - रोटी और संसद -कदम मिलाकर चलना होगा	- शिक्षा की अवस्था - वह तोड़ती पत्थर - रोटी और संसद -कदम मिलाकर चलना होगा	चांदनी रात, विकल्प, कानूनी और गैर कानूनी, दीक्षांत – उपन्यास	भूषण, नृपशम्भू, घनानंद, महाकाव्यंश – रामचरितमानस
Mar.	- हिंदी शब्द सम्पदा - अशुद्धि शोधन - पत्र लेखन , संगणक	- हिंदी शब्द सम्पदा - अशुद्धि शोधन - पत्र लेखन , संगणक	- हिंदी शब्द सम्पदा - अशुद्धि शोधन - पत्र लेखन , संगणक	दीक्षांत – उपन्यास	रामचरितमानस अयोध्याकाण्ड

1. प्रा. डॉ.व्ही.एस.जाधव : बी.ए., बी.एससी.I (SL, Opt.IV)
2. प्रा. डॉ.जी.पी.निवारे : बी.ए. –I (Opt.III), बी.कॉम. SL.
3. प्रा. डॉ. आर.आर.हुसे : बी.ए., - (Opt.IV)

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023 – 24)



Month	Class: B.A.S.Y. Paper: Hindi SL Semester: III	Class B. Sc. S.Y.: Paper: Hindi SL Semester III	Class: B.Com. S.Y. Paper: Hindi SL Semester: III	Class: B.A.S.Y. Paper: Hindi V(opt) Semester: III	Class: B.A.S.Y. Paper: Hindi VI(opt) Semester: III
Jun.	पाठ्यक्रम जानकारी * गद्य विभा * प्रयोजनमूलक हिंदी	पाठ्यक्रम जानकारी * गद्य विभा * प्रयोजनमूलक हिंदी	पाठ्यक्रम जानकारी * गद्य विभा * प्रयोजनमूलक हिंदी	पाठ्यक्रम जानकारी * अ) हिंदी साहित्य का इतिहास * आधुनिक काल : परिस्थितियां विशेषताएँ	पाठ्यक्रम जानकारी 1) कबीरा खड़ा बाजार में, भीष्म साहनी
Jul.	- कहानी : दोपहर का भोजन - रेखाचित्र : रजिया - संस्मरण : मैथिलीशरण गुप्त - निबंध : मनुष्य की सर्वोत्तम कृति	- कहानी : दोपहर का भोजन - रेखाचित्र : रजिया - संस्मरण : मैथिलीशरण गुप्त - निबंध : मनुष्य की सर्वोत्तम कृति	- कहानी : दोपहर का भोजन - रेखाचित्र : रजिया - संस्मरण : मैथिलीशरण गुप्त - निबंध : मनुष्य की सर्वोत्तम कृति	- भारतेंदु युग - द्विवेदी युग - छायावाद, प्रगतिवाद - नई कविता परिचय तथा विशेषताएँ प्रयोगवाद	1) कबीरा खड़ा बाजार में, भीष्म साहनी
Aug.	- यात्रा साहित्य : शांति निकेतन * भाषा का स्वरूप अर्थ, परिभाषा, स्वरूप * भाषा की विशेषताएँ - परख परीक्षा	- यात्रा साहित्य : शांति निकेतन * भाषा का स्वरूप अर्थ, परिभाषा, स्वरूप * भाषा की विशेषताएँ - परख परीक्षा	- यात्रा साहित्य : शांति निकेतन * भाषा का स्वरूप अर्थ, परिभाषा, स्वरूप * भाषा की विशेषताएँ - परख परीक्षा	* प्रतिनिधि कवी : भारतेंदु हरिश्चंद्र - मैथिलीशरण गुप्त - सूर्यकांत त्रिपाठी निराला - नागार्जुन, धूमिल, धर्मवीर भारती - परख परीक्षा	1) कबीरा खड़ा बाजार में, भीष्म साहनी परख परीक्षा 2) ताजमहल का टेंडर, अजय शुक्ला
Sep.	- भाषा के कार्य भाषा के विविध रूप हिंदी भाषा : भारत की संवैधानिक और अधिकारिक भाषाएँ हिंदी भाषा क्षेत्र और बोलियों का सामान्य परिचय हिंदी भाषा का वैश्विक परिदृश्य	- भाषा के कार्य भाषा के विविध रूप हिंदी भाषा : भारत की संवैधानिक और अधिकारिक भाषाएँ हिंदी भाषा क्षेत्र और बोलियों का सामान्य परिचय हिंदी भाषा का वैश्विक परिदृश्य	- भाषा के कार्य भाषा के विविध रूप हिंदी भाषा : भारत की संवैधानिक और अधिकारिक भाषाएँ हिंदी भाषा क्षेत्र और बोलियों का सामान्य परिचय हिंदी भाषा का वैश्विक परिदृश्य	अ) हिंदी गद्य का विकास - नाटक साहित्य : उद्भव और विकास - कहानी साहित्य : उद्भव और विकास - उपन्यास साहित्य : उद्भव और विकास	2) ताजमहल का टेंडर, अजय शुक्ला
Oct.	अनुवाद - अर्थ, परिभाषा और प्रक्रिया - अनुवाद के प्रकार - अनुवाद के गुण दोष - अनुवाद करिअर की संभावनाएँ	अनुवाद - अर्थ, परिभाषा और प्रक्रिया - अनुवाद के प्रकार - अनुवाद के गुण दोष - अनुवाद करिअर की संभावनाएँ	अनुवाद - अर्थ, परिभाषा और प्रक्रिया - अनुवाद के प्रकार - अनुवाद के गुण दोष - अनुवाद करिअर की संभावनाएँ	- एकांकी साहित्य : उद्भव और विकास - प्रतिनिधि रचनाकार : मोहन राकेश, प्रेमचन्द, फनीश्वरनाथ रेणु, रामकुमार वर्मा	2) ताजमहल का टेंडर, अजय शुक्ला परख परीक्षा

1. प्रा. डॉ. व्ही. एस. जाधव : बी. ए. - (Opt.V)
2. प्रा. डॉ. जी. पी. निवारे : बी. ए., बी. एस. सी. SL
3. प्रा. डॉ. आर. आर. हुसे : बी. ए. (Opt.VI), बी. कॉम. (SL)

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-24)



Month	Class: B.A.S.Y. Paper: Hindi SL Semester: IV	Class B. Sc. S.Y. Paper: Hindi SL Semester: IV	Class: B.Com. S.Y. Paper: Hindi SL Semester: IV	Class: B.A.S.Y. Paper: Hindi VII(opt) Semester: IV	Class: B.A.S.Y. Paper: Hindi VIII(opt) Semester: IV
Nov.	पाठ्यक्रम जानकारी * गद्य विभा, संपादक, हिंदी अध्ययन मंडल - पर्यावरण : हमारे जीवन में वनों का महत्व - कन्हैयालाल माणिकलाल मुंशी	पाठ्यक्रम जानकारी * गद्य विभा, संपादक, हिंदी अध्ययन मंडल - पर्यावरण : हमारे जीवन में वनों का महत्व - कन्हैयालाल माणिकलाल मुंशी	पाठ्यक्रम जानकारी * गद्य विभा, संपादक, हिंदी अध्ययन मंडल - पर्यावरण : हमारे जीवन में वनों का महत्व - कन्हैयालाल माणिकलाल मुंशी	पाठ्यक्रम जानकारी * कथेत्तर गद्य साहित्य : सामान्य परिचय	पाठ्यक्रम जानकारी - एकांकी साहित्य - एकांकी रंग तरंग : संपादक, हिंदी अध्ययन मंडल, औरंगाबाद
Dec.	- व्यंग : प्राइवेट कॉलेज का घोषणापत्र - हरिशंकर परसाई - ललित निबंध : माँ की लोरी ; रस की गागर - श्रीराम परिहार - चाचणी परीक्षा	- व्यंग : प्राइवेट कॉलेज का घोषणापत्र - हरिशंकर परसाई - ललित निबंध : माँ की लोरी ; रस की गागर - श्रीराम परिहार - चाचणी परीक्षा	- व्यंग : प्राइवेट कॉलेज का घोषणापत्र - हरिशंकर परसाई - ललित निबंध : माँ की लोरी ; रस की गागर - श्रीराम परिहार - चाचणी परीक्षा	- गोहूँ और गुलाब - रामवृक्ष बेनीपुरी - आचरण की सभ्यता - सरदार पूर्णसिंह - समय - बन्नीनाथ चौधरी 'प्रेमघन' - चाचणी परीक्षा	- ईद और होली - सेठ गोविन्ददास - उसर - भुवनेश्वर प्रसाद YOUTUBE
Jan.	- प्रयोजनमूलक हिंदी : जनसंचार माध्यम : सामान्य परिचय - PPT द्वारा सम्प्रेषण जनसंचार माध्यम : विकास और उपयोगिता	- प्रयोजनमूलक हिंदी : जनसंचार माध्यम : सामान्य परिचय - PPT द्वारा सम्प्रेषण जनसंचार माध्यम : विकास और उपयोगिता	- प्रयोजनमूलक हिंदी : जनसंचार माध्यम : सामान्य परिचय - PPT द्वारा सम्प्रेषण जनसंचार माध्यम : विकास और उपयोगिता	- क्रोध - आ. रामचंद्र शुक्ल - साहित्य की महत्ता - महावीर प्रसाद द्विवेदी PPT द्वारा सम्प्रेषण - चाचणी परीक्षा	- तौलिए - उपेन्द्रनाथ अशक - सड़क - विष्णु प्रभाकर - मकड़ी का जाला - जगदीशचंद्र माथुर YOUTUBE - चाचणी परीक्षा
Feb.	- जीवनी अंश : धरती और धान - पाण्डेय बेचन शर्मा - PPT द्वारा सम्प्रेषण	- जीवनी अंश : धरती और धान - पाण्डेय बेचन शर्मा - PPT द्वारा सम्प्रेषण	- जीवनी अंश : धरती और धान - पाण्डेय बेचन शर्मा - PPT द्वारा सम्प्रेषण	- नेता नहीं नागरिक चाहिए - रामधारीसिंह दिनकर - PPT द्वारा सम्प्रेषण	- कुंवारी धरती - मोहन राकेश - परिचय - लक्ष्मीनारायण लाल - आप न बदलेंगे - ममता कालिया
Mar.	- एकांकी : सुखी डाली - उपेन्द्रनाथ अशक इन्टरनेट : महत्त्व और अनुप्रयोग परीक्षा की तैयारी	- एकांकी : सुखी डाली - उपेन्द्रनाथ अशक इन्टरनेट : महत्त्व और अनुप्रयोग परीक्षा की तैयारी	- एकांकी : सुखी डाली - उपेन्द्रनाथ अशक इन्टरनेट : महत्त्व और अनुप्रयोग परीक्षा की तैयारी	- नाखून क्यों बढ़ते हैं - हजारीप्रसाद द्विवेदी - परीक्षा की तैयारी	- नींद क्यों रात भर नहीं आती - सुरेन्द्र वर्मा परीक्षा की तैयारी

1. प्रा. डॉ. व्ही.एस. जाधव : बी.ए. - II (Opt.VII)
2. प्रा. डॉ. जी. पी. निवारे : बी.ए. - बी.एससी. II (SL)
3. प्रा. डॉ. आर. आर. हुसे : बी.ए. II (Opt.VIII), बी.कॉम. II (SL)

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Month	Class: BATY Paper: IX Semester: V	Class: BATY Paper: X Semester: V	Class: BATY Paper: XI Semester: V	Class: BATY Paper: XII Semester: V
Jun.	प्रादेशिक साहित्य साहित्य आस्वादन - अभिरुचि जीवन मुल्योंके प्रति आस्था प्रादेशिक भाषा का ज्ञान पाठ्यक्रम	* आदि तथा मध्यकालीन हिंदी साहित्य का इतिहास * हिंदी साहित्य परम्परागत परिचय * पाठ्यक्रम - विवेचन	साहित्यशास्त्र साहित्य चिंतन अध्ययन साहित्य सृजन - क्षमता का परिचय - पाठ्यक्रम - प्रवेश प्रक्रिया आदि	प्रकल्प कार्य लेखन निर्देशन पाठ्यक्रम - विषय विवेचन
Jul.	अ) मराठी साहित्य मराठी का कहानी साहित्य सामान्य परिचय मराठी कहानी साहित्य विकास कालखंड - आदि 1) शांति - कहानी - वि.स.	1) हिंदी साहित्यिहास : लेखन स्रोत एवं परंपरा 2) आदिकाल : सामाजिक, सांस्कृतिक, राजनितिक पृष्ठभूमि साहित्य : वीर गाथा, जैन, सिद्ध, नाथ, आदि	1) साहित्य का स्वरूप : तात्पर्य - संस्कृत, पाश्चात्य, हिंदी विज्ञानोद्धार प्रस्तुत साहित्य परिभाषा- 2) साहित्य के तत्व : प्रस्तावना	विषय चर्चा - विविध आयाम के साथ
Aug.	2) मुनागों की फलियाँ 3) प्रेम या पशुव्रती ? 4) अन मै पीछे हटूंगी नहीं 5) लाल कीचड़ - कहानी संवेदन - शिल्प विधान	रचानाभर : अमीर फुशारो, विद्यापति, नामदेव आदि 3) भविष्यकाल : सा.सं.रा.पु निर्गुण भक्ति साहित्य सगुण भक्ति साहित्य	तत्व : भाव, विचार या बुद्धीतत्व, कल्पना तत्व, शैली 3) साहित्य प्रयोजन : तात्पर्य, विज्ञानोद्धार प्रस्तुत साहित्य प्रयोजन 4) साहित्य हेतू : तात्पर्य -	विषय चर्चा - विविध आयाम के साथ
Sep.	6) जानवर - कहानी 7) कर्जमुक्ति 8) आघात 9) समांतर रेखाएं परख परीक्षा - परिणाम	रचनाकार : कबीर, जायशी, तुलाशिदास, सूरदास परख परीक्षा तथा परिणाम - उपरिक्त विषय पर चर्चा - आदि	संस्कृत, पाश्चात्य, हिंदी विज्ञानोद्धार प्रस्तुत साहित्य हेतू - 6) रस विचार : रस का स्वरूप, रस निष्पत्ती - रस भेद - रस : भारतीय पाश्चात्य दृष्टीकोन - परख परीक्षा	विषय चर्चा - विविध विषय चयन के साथ
Oct.	दलित आत्मकथा साहित्य : सामान्य परिचय * पराया : लक्ष्मण माने संवेदन - शिल्प परीक्षा - आदि	4) रीतिकाल : सा.सं.रा.पु. रीतिकालीन साहित्य - रीतिबद्ध, रितिसिद्ध तथा रितियुक्त रचनाकार - केशव, पद्मकर, बिहारी, धनानंद, भुषण परीक्षा - आदि	5) शब्दिराम विचार तात्पर्य और प्रमुख भेद परीक्षा आदी	विषय चयन - चर्चा आदी -

1. प्रा. डॉ. व्ही. एस. जाधव : तृतीय वर्ष -IX,XII Main
2. प्रा. डॉ. जी. पी. निवारे : तृतीय वर्ष - X
3. प्रा. डॉ. आर. आर. हुसे : तृतीय वर्ष - XI

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Month	Class: BATY Paper: XIII Semester: VI	Class: BATY Paper: XIV Semester: VI	Class: BATY Paper: XV Semester: VI	Class: BATY Paper: XVI Semester: VI
Nov.	मध्यकालीन काव्य पाठ्यक्रम - पाठ्यक्रम पर चर्चा - संत कवि का अध्ययन भक्ती आंदोलन का अध्ययन	आधुनिक हिंदी साहित्य का इतिहास - हिंदी साहित्य - परिचय पाठ्यक्रम - विषय विवेचन आदी -	साहित्य शास्त्र पाठ्यक्रम - चर्चा - आदी - विषय विवेचन -	विषय चयन कि जानकारी तथा विषय प्रतिपादन आदी
Dec.	1) भक्तीकालीन काव्य : सामान्य परिचय 1) संत नामदेव 2) संत कबीर 3) संत रोहिदास	1) आधुनिक काल : काव्य साहित्य :- - भारतेंदू युगीन कविता - द्विवेदी युगीन कविता - छायावादी कविता	1) अलंकार विचार : तात्पर्य वर्गीकरण एवं भेद परिचय - शब्दालंकार - अर्थालंकार - आदी -	विषय - लेखन - मार्गदर्शन
Jan.	कविता के माध्यम से सांस्कृतिक संवेदना का अध्ययन 4) सूरदास 5) तुलसीदास 6) निपट निरंजन 7) मिर्जाबाई	- प्रगतीवादी कविता - प्रयोगवादी कविता - नई कविता - समकालीन कविता - दलित आदिवासी कविता आ गद्य साहित्य :- नाटक	2) छंद विचार - तात्पर्य परिभाषा - तत्व, भेद * यांत्रिक भेद * वर्मिक भेद	विषय - लेखन परीक्षण - आदी
Feb.	8) बिहारी 9) रहीम - पारख परीक्षा	कहाणी - उपन्यास जीवनी - आत्मकथा - उदभव और विकास पारख परीक्षा - परिणाम	3) विधा स्वरूप : विवेचन साहित्य विधाए - विवेचन दृश्य काव्य - श्राव्य काव्य पारख परीक्षा - परिणाम	विषय - टंक लेखन - परीक्षण
Mar.	10) भूषण - आदी संत कावियों कि भक्ती कि संवेदनाओं का अध्ययन - परीक्षा आदी	काव्य साहित्य और गद्य साहित्य चर्चात्मक विश्लेषण आदी - परीक्षा आदी -	4) आलोचना : - स्वरूप भेद - महत्व, कार्य, गुण सामान्य परिचय आदी परीक्षा चर्चा - आदी	अंतिम - प्रकल्प कार्य संपन्न मौखिकी - परीक्षा आदी मुल्यांकन -

1. प्रा. डॉ. व्ही. एस. जाधव : तृतीय वर्ष -XIII , XVI (Project)
2. प्रा. डॉ. जी. पी. निवारे : तृतीय वर्ष -XIV,
3. प्रा. डॉ. आर. आर. हुसे : तृतीय वर्ष - XV

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Month	Class: BAFY	Class: BAFY	Class: BAFY
	Paper No: English [Comp.] II	Paper No: English [Opt.] III	Paper No: English [Opt.] IV
	Semester: II	Semester: II	Semester: II
Jan- 2024	Prose Section: 1. India's Message to the World – Swami Vivekananda 2. Are the Rich Happy – Stephen Leacock 3. I Have a Dream – Martin Luther King Jr. 4. Going Public: A Man of Wealth and Fame – Walter Issacson 5. Gold from the Grave – Anna Bhau Sathe	Unit I: A. Prose Types 1. The Essay 2. Autobiography 3. Biography B. Bacon's Essays 1. Of Truth 2. Of Death 3. Of Revenge 4. Of Parents and Children 5. Of Nobility	Unit I: A. Types of Poetry 1. The Epic 2. The Satire 3. The Idyll B. Samson Agonistes – John Milton
Feb-2024	Poetry Section: 1. Stopping by Woods on a Snowy Evening – Robert Frost 2. Poem of Serpents – Loknath Yashwant 3. Strange Meeting – Wilfred Owen 4. The Ballad of the Landlord – Langston Hughes 5. The Tiger and the Deer – Sri Aurobindo	Unit II: Autobiography The Race of My Life – Mikha Singh	Unit II: Bacon's Essays 1. Of Envy 2. Of Love 3. Of Adversity 4. Of Marriage and Single Life 5. Of Goodness and Good Nature 6. Of Boldness 7. Of Superstitions 8. Of Suspicion 9. Of Ambition 10. Of Beauty
Mar-2024	Grammar and Writing Skills: 1. Basic Sentence Types 2. Affixation and Word Formation 3. Phrases and Idioms 4. Antonyms and Synonyms 5. Translation Skills 6. Dialogue Writing 7. Blog Writing 8. Descriptive and Narrative Paragraph	Unit III: Drama Justice – John Galsworthy Unit IV: Fiction The Alchemist – Paulo Coelho	Unit III: Drama Doctor Faustus – Christopher Marlowe Unit IV: Fiction The English Patient – Machael Ondaatje

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Name of Teacher: Khoje S. K.

Department of English

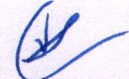
Month	Class: BASY	Class: BASY	Class: BASY
	Paper No: English [Comp.] III	Paper No: English [Opt.] V	Paper No: English [Opt.] VI
	Semester: III	Semester: III	Semester: III
July-2023	Prose Section: 1. Preamble, Fundamental Rights and Duties 2. Memorial Address to the Education Commission – Jyotirao Phooley 3. The Doll's House – Katherine Mansfield 4. How Tell a Story – Mark Twain 5. How Much Land Does a Man Need? – Leo Tolstoy	Unit I: Introduction to Types of Literature in English 1. British Literature 2. American Literature 3. Indian Literature	Unit I: Introduction to Types of Literature in English 1. Canadian Literature 2. Australian Literature 3. African Literature
Aug-2023	Poetry Section: 1. O Captain My Captain – Walt Whitman 2. The Leech Gatherer – William Wordsworth 3. Hope is the Thing With Feather – Emily Dickinson 4. The Conversation on a Magshar Night – Dalpat Chauhan 5. Money Madness – D, H. Lawrence	Unit II: Poetry 1. All the World's a Stage – Shakespeare 2. Give All to Love – R. W. Emerson 3. Freedom – Rabindranath Tagore Unit III: Drama The Comedy of Errors – William Shakespeare	Unit II: Poetry 1. I Believe – Robert Service 2. The Old Prison Judith Wright 3. Pine Tree in Spring – Chinua Achebe
Sept.-2023	Unit III: Grammar 1. Degrees of Comparison 2. Common Errors in Forming Sentences 3. Speech: Preparation and Presentation 4. Interview: Preparation and Conduct	Unit IV: Fiction As I Lay Dying – William Faulkner	Unit III: Drama The Strong Breed – Wole Soyinka Unit IV: Short Fiction Dancing Girls and Other Stories – Margaret Atwood
Oct -2023	Revision	Revision	Revision

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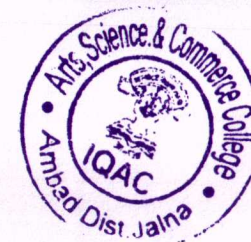
Month	Class: BASY Paper No: English [Comp.] IV Semester: IV	Class: BASY Paper No: English [Opt.] VII Semester: IV	Class: BASY Paper No: English [Opt.] VII Semester: IV
Jan- 2024	Prose Section: 1. Of Society and Civilization – Thomas Paine 2. My Greatest Olympic Prize – Jesse Owens 3. The Pleasures of Ignorance – Robert Lynd 4. The Lottery Ticket – Anton Chekhov 5. The Gift of the Magi – O Henry	Unit I: Periods of British Literature 1. Old English Period 2. Middle English Period 3. The Renaissance 4. Elizabethan Period 5. Romanticism	Unit I: Post-colonialism: A Background 1. Definition 2. Theory 3. Colonialism, Imperialism and Post-Colonialism
Feb-2024	Poetry Section: 1. To My Daughter – Balamani Amma 2. Amalkanti – Nirendrath Chakrabarty 3. Woman – Hira Bansode 4. And the Dream Bird – Sudhanya Tripura 5. Spring – Ezra Pound	Unit II: Poetry 1. A Ballad of Gentleness – Geoffrey Chaucer 2. An Ode to Himself – Ben Jonson 3. Death Be Not Proud – John Donne	Unit II: Poetry 1. A Far Cry from Africa – Derek Walcott 2. To New York – Leopold Sedar Senghor 3. Stone-Masons, My Father and Me – Namdeo Dhasal
Mar-2024	Grammar Section: 1. Use of Words in Sentences 2. The Sentence: Coordination and Subordination 3. Soft Skills: An Introduction 4. Indian English: A Brief Introduction	Unit III: Drama Duchess of Malfi – John Webster Unit IV: Prose Utopia – Thomas More	Unit III: Essays 1. Colonialist Criticism – Chinua Achebe 2. Orientalism – Edward Said 3. National Culture – Franz Fanon Unit IV: Fiction Tomb of Sand – Gitanjali Shree
Apr-2024	Revision	Revision	Revision


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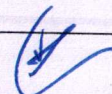
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Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2023-24)

Name of Teacher: Khoje S. K.

Department of English

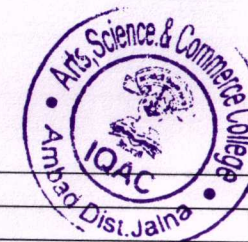


Month	Class: BATY	Class: BATY	Class: BATY
	Paper No: English [Opt.] IX	Paper No: English [Opt.] X	Paper No: English [Opt.] XI
	Semester: V	Semester: V	Semester: V
July-2023	UNIT ONE: Phonetics 1. Introduction to English 2. Articulators in Speech Mechanism 3. The I.P.A. Symbols	Unit I: Introduction to Literary Theory 1. New Criticism 2. Russian Formalism 3. Structuralism 4. Marxism 5. Feminism	UNIT ONE: POETRY 1. I Shall Someday – Kamala Das 2. Pestilence in 19th Century Calcutta – Keki N. Daruwalla 3. Australia – A. D. Hope 4. Your Attention Please – Peter Porter 5. A Negro Labourer in Liverpool – Davis Rubadiri
Aug-2023	4. Classification of the Consonants and Vowel Sounds 5. Phonemic Transcription Unit II: Grammar 1. Definition and Nature 2. Word Classes: Open and Closed	6. Post-structuralism 7. Post-colonialism 8. Modernism 9. Post-modernism	6. Letter from Pretoria Central Prison – Arthur Nortje 7. Song – Alexander McLachlan 8. The Future – George Frederick Cameron 9. The Age of Chains – E. McG. Keane 10. On An Asian Poet Fallen Among American Translators – Asmine Gooneratne 11. To the Indian Who Died in Africa – T. S. Eliot
Sept.-2023	3. The Verb Types 4. The Phrase and Its Analysis 5. The Sentence: Simple and Multiple	Unit II: Texts for Study 1. The Death of the Author – Roland Barthes 2. From "The Discourse in the Novel" – Mikhail Bakhtin 3. From "The Second Sex" – Simone de Bouvoir	Unit II: Short Fiction 1. A Child's Dream of Star – Charles Dickens 2. The Tell-Tale Heart – Edgar Allen Poe 3. White Nights – Fyodor Dostoevsky 4. The Necklace – Guy De Maupassant 5. Living or Dead - Tagore
Oct -2023	Revision	Revision	Revision


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Month	Class: BATY	Class: BATY	Class: BATY
	Paper No: English [Opt.] XIII	Paper No: XIV	Paper No: XV
	Semester: VI	Semester: VI	Semester: VI
Jan- 2024	Unit I: Phonetics 1. Received Pronunciation, BBC English and Network English 2. The Three-Term Label 3. The Syllable and Accent in Phonemic Transcription	Unit I: Introduction to Literary Theory and Terms 1. Psychoanalytic Criticism 2. New Historicism 3. Archetypal Criticism 4. Speech Act Theory 5. Point-of-View	Unit I: Poetry 1. Send My Boy to School – Waman Kardak 2. Indian Weavers – Sarojini Naidu 3. Epithalamium – A. R. D. Fairburn 4. The Monstrous Biped – Razia Khan 5. Elegy for my Son – Patrick Fernando
Feb-2024	4. Intonation/Tones and Weak Forms in Sentence Transcription 5. Assimilation	6. Metre 7. Repartee 8. Three Unities 9. Sublime 10. Stream-of- Consciousness	Unit II: Fiction Sula – Toni Morrison
Mar-2024	II. Grammar 1. The Clause: Elements and Types 2. Sentence Co-Ordination and Subordination 3. The Concord 4. Acceptability: Syntactic and Semantic 5. Major Question Types	Unit II: Texts for Study 1. New Ethnicities – Stuart Hall 2. Cultural Diversity and Cultural Differences – Homo Bhabha 3. Imaginary Homeland – Salman Rushdie	Unit III: Drama No Exit – Jean Paul Sartre
Apr-2024	Revision	Revision	Revision


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Name of Teacher: Khoje S. K.

Department of English



Month	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY
	Paper No: M-1001	Paper No: M-1002	Paper No: M-1003	Paper No: M-1005-A	Paper No: RM-1006
	Semester: I	Semester: I	Semester: I	Semester: I	Semester: I
Aug-2023	Unit I: Introduction to English Poetry Unit II: Poetical Types	Unit I: Varieties of English, Standard English Unit II: Verbs, NP, VP, Unit III. Adj. Phrase, Prep. Phrase	Unit I: Virginia Woolf and Modernism Unit II: Jacob's Room	Unit I: Introduction to Psychology and Psychoanalysis Unit II: The Second Sex by Simone De Beauvoir	Research Methodology: Unit I: Research Process Unit II: The Mechanics of Writing
Sep-2023	Unit III: Select Major Schools and Movements Metaphysical, Romantic etc Unit IV: Modern Poetry W. B. Yeats, T. S. Eliot	Unit IV: The Simple Sentence, Negation, Adjuncts, disjuncts, Conjuncts	Unit III: To the Lighthouse Unit IV: The Complete Short Fiction [First 10]	Unit III: Cry the Peacock by Anita Desai Unit IV: Psychoanalysis and Feminism	Unit III/IV: Research Methods in Literature
Oct-2023	Unit V: Post-Modern Poetry Dylan Thomas, Robert Lowell	Unit V: Co-ordination, Subordination, the Complex Sentence	Unit V: A Room of One's Own	Unit V: Lacan's Psychoanalysis	Unit V: Research methods in language
Nov - 2023	Revision	Revision	Revision	Revision	Revision

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Month	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY
	Paper No: VII Drama	Paper No: VIII	Paper No: IX Modern and Postmodern Literature	Paper No: XI-E-A Colonial and Postcolonial Literature	Paper No: XII
	Semester: II	Semester: II Pragmatics	Semester: II	Semester: II	Semester: II
Dec-2023	Unit I: Understanding Drama Types of Tragedy and Comedy	Unit I: Pragmatics Unit II: Reference and Inference	Unit I: Modernism and Post-modernism in literature Unit II: The Waste Land – T. S. Eliot	Colonial and Postcolonial Literature Unit I: Theory Unit II: Kanthapura – Raja Rao	Field Project
Jan-2024	Unit II: Understanding Tragedy The Spanish Tragedy Unit III: Understanding Comedy As You Like li	Unit III: The Politeness Principle	Unit III: Drama Tara – Mahesh Dattani	Unit III: Things Fall Apart – Chinua Achebe	Field Project
Feb-2024	Unit IV: Understanding Tragi-comedy Endgame by Samuel Becket	Unit IV: Austin's Theory of Pragmatics	Unit IV: Slaughterhouse Five	Unit IV: A House For Mr. Biswas	Field Project
Mar-2024	Unit V: The Importance of Being Earnest	Unit V	Unit V: Postmodernism or The Cultural Logic of Late Capitalism	Unit V: The Beautiful One's Are Not Yet Born – Ayi Kwei Armah	Writing Field Project

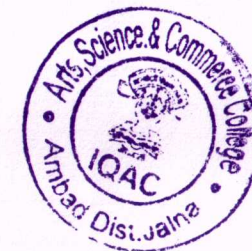

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Annual Teaching Plan (Year: 2023-24)

Name of Teacher: Khoje S. K.

Department of English



Month	Class: MASY	Class: MASY	Class: MASY	Class: MASY
	Paper No: IX Fiction	Paper No: X-F American Literature	Paper No: XI Literary Theory	Paper No: XII Research Methodology-Theory
	Semester: III	Semester: III	Semester: III	Semester: III
Aug-2023	Unit I: Time Machine – H. G. Wells Unit II: Home of the Spirits – Isabel Allende	Unit I: Poetry Walt Whitman, Langston Hughes and Joy Harjo	Unit : Neoclassicism An Essay of Dramatic Poesy – John Dryden	Unit I: Research Methods in Literature-I Marxism, Ambedkarism, Feminism
Sep-2023	Unit III: Travelling on One Log – Herta Muller Unit IV: Immortality – Milan Kundera	Unit II: Prose American Scholar – Ralph Waldo Emerson Of the Dawn of Freedom – W. E. B. Du Bois	Unit II: Biographia Literaria – S. T. Coleridge	Unit II: Research Methods in Literature-I Psychoanalysis, Post-colonialism etc
Oct-2023	Unit V: The Trial – Frantz Kafka Unit VI: Never Let Me Go – Kazuo Ishiguro Unit IX: Like the Flowering River	Unit III: Fiction Adventures of Huckleberry Finn The Way to Rainy Mountain	Unit III: Culture and Anarchy – Matthew Arnold Unit IV: The Function of Criticism – T. S. Eliot	Unit III/IV: Research Approaches in Language
Nov -2023	Thousand Faces of the Night – Gita Hariharan	Unit V: Drama All My Sons – Arthur Miller The Emperor Jones – Eugene O'Neill	Unit V: The Intentional Fallacy	Unit V: Writing Research Paper

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Month	Class: MASY	Class: MASY	Class: MASY	Class: MASY
	Paper No: XIII Non-Fiction	Paper No: XIV-F Diaspora Literature	Paper No: XV Critical Theory	Paper No: XVI Research Methodology-II Practice
	Semester: IV	Semester: IV	Semester: IV	Semester: IV
Dec- 2023	Unit I: Autobiography Long Walk to Freedom Unit II: Political Social Writings 1 to 2	Unit I: Introduction and Theory Unit II: Prose	Unit I: Annihilation of Caste – Dr. B. R. Ambedkar Unit II: Frederick Jameson	Unit I: Writing Research Dissertation Unit II: Review of Literature
Jan-2024	Unit III: Philosophical Writings	Unit III: Fiction 1 to 4	Unit III: Jacques Derrida	Unit III: Methodology
Feb-2024	Unit IV: Historical Writings	Unit IV: Poetry A. K. Ramanujan, Sujata Bhatt, Meena Alexander	Unit IV: What is an Author?	Unit IV
Mar-2024	Unit V: Scientific Writings	Unit V: Introduction to Writing-	Unit V: Feminist Criticism in Wildernessness4	Unit V

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Name of Teacher: INALE A.O.V.

Department: Political science



Month	Class: F.Y. B. A. Paper No: I st Semester: I I st	Class: S. F. B. A. Paper No: V Semester: III III rd	Class: T. F. B. A. Paper No: XI Semester: V V th	Class: T. F. B. A. Jalna Paper No: XI Semester: V V th
Jun-2023	<u>Principles of Political science</u> <u>Political Science -</u> Meaning Nature Scope.	<u>Government and Politics in Maharashtra</u> Sanyukta Maharashtra Movement: Historical and Political background of Maharashtra Akola Pact, Sanyukta Maharashtra Samiti, JVP Commission, Nagpur Pact, State Reorganization Commission	<u>Western political thinkers</u> Plato - views on Justice Communism Education Ideal state	<u>Political ideology</u> Nationalism Meaning scope Nature, Features Liberalism
Jul-2023	<u>State</u> It's elements & Nature Theories of origin of state A. Divine theory, B. Social contract Theory C. Evolution Theory	<u>State Executive</u> Governor - Appointment power & function Chief minister - Appointment powers and function Council of Minister Power and function.	<u>His title: views on</u> State, citizenship, Revolution.	<u>Democracy:-</u> Merits & Demerits. Kinds of Democracy features
Aug-2023	<u>Government</u> Meaning organs of government Legislative: Executive & Judiciary Types of Government: unitary, Federal Parliamentary and Presidential	<u>State Legislature</u> Legislative Assembly Legislative Council	<u>Niccolomachiavelli</u> Human Nature, Advice to prince views on Religion and Morality.	<u>Imperialism</u> Meaning scope Nature feature.
Sep-2023	<u>Communism</u> Meaning Features of Communism.	Composition, power and function composition power and function.	<u>Thomas Hobbes</u> Human Nature, social contract Theory and concept of sovereignty	<u>feminism</u> Meaning & Nature
Oct-2023	<u>Sovereignty</u> Meaning Features of Definition and Types.	<u>High Court:-</u> Structure Power and Function Judicial Activism.	<u>John Locke</u> Human Nature, Social Contract Theory - idea of Right.	scope, features of Feminism.

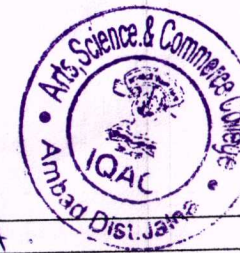
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Month	Class: F.P.B.A. Paper No: <u>IIIrd</u> Semester: II <u>IInd</u>	Class: S.P.B.A. Paper No: <u>VII</u> Semester: IV <u>IV</u>	Class: T.P.B.A. Paper No: <u>XIV</u> Semester: VI <u>VI</u>	T.P.B.A. <u>XV</u> <u>VI</u>
Dec-2023	Principles of Political Science Liberty, Equality, and Justice Meaning Types and Importance Democracy:- Meaning & features	Government and Politics in Maharashtra <u>Panchayat Raj system:-</u> 73rd Constitutional Amendment	Western Political thinkers Jean Jacques, Rousseau Human Nature Social Contract Theory Idea of general will	Political Ideology Socialism meaning development feature, criticism views.
Jan-2024	Direct & Indirect Democracy Merits and Demerits of Democracy <u>Nationalism:- Definition</u> Elements of Nationalism.	Gram Panchayat structure, power and function. Panchayat samiti: structure Power and function. Zilla Parishad: structure, Power function.	John Stuart Mill Idea of Liberty Representative Government and Jeremy Bentham view on state.	Communism: meaning development critical review Fascism: meaning development feature critical review
Feb-2024	Merits and Demerits of Nationalism. <u>Liberalism: Meaning</u> Types of Liberalism. Merits and Demerits of Liberalism.	<u>Ideology and Programme of Political parties</u> 1. Indian Political Party system	Government and Rights ideology Law and Reform and punishment Theory of Utilitarianism Karl Marx:-	Anarchism Meaning development feature critical review.
Mar-2024	<u>Feminism</u> Definition Characteristics of feminism. Purpose of feminism.	2. All India National Congress. 3. Nationalist Congress Party 4. Shantiy Janata Party 5. Shiv Sena 6. Republican Party of India	Dialectical Materialism & Materialistic interpretation of History Theory of class Karl id Laski views on liberty	Environmentalism Meaning development feature, critical review



Month	Class: F.Y.B.A. Paper No: II Semester: I Gover. & Pol. in India	Class: S.Y.B.A. Paper No: IV Semester: III Inte. Rela.	Class: T.Y.B.A. Paper No: IX Semester: V Indian Pol. Thaurm
Jun-2023	Discusses on Syllabus <u>Indian Constitution</u> : - Introduction - Preamble	Discuss on Syllabus <u>International Relation</u> : - Meaning & Nature - Scope	<u>Rasaram Mohan Roy</u> - - Views on Religion - Architect of Indian Renaissance
Jul-2023	Salient Features of Indian Constitution. - Fundamental Rights and Duties	Difference Between Int. Relation & Int. Politics - Significance of Inte. Rela. Approaches to the study of Inte. Rela. - Introduction	<u>Rasaram Mohan Roy</u> - - Social and Political Thought <u>Dayanand Saraswati</u> - Int.
Aug-2023	Directive Principles of State Policy. <u>Union Government</u> : President - power	Idealistic Approach - Realistic App. Decision Making Approach Game Theory National Interest - Intro.	<u>Sarawati</u> - Religion Thought - Social Thought, Political Thought <u>M.G. Ranade</u> - Introduction Idea on Social Reform - Political & Economics Ideas
Sep-2023	Vice President - Feature power Prime Minister & the Cabinet Parliament - Lok Sabha Rajya Sabha - power	<u>National Power</u> - Intro. - Meaning & Nature - Nat. Int. & Foreign Policy Types of National Power Balance of Power - meaning	<u>Lokmanya Tilak</u> - Views on Nationalism Political Ideas - Four Point program Views on Social Reform
Oct-2023	<u>Judiciary</u> :- Introduction - Lok Pol - - Public Interest Litigation - Judicial Activism	Techniques, Types, Relevance <u>Collective Security</u> : - meaning & Nature - Coll. Sec. & Balance of Power UN and collective security	<u>M.K. Gandhi</u> - Intro. - Views on Religion - Concept on Satya, Ahimsa & satyagraha. - Concept on Ram Rajya

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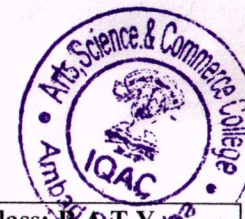


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Month	Class: <u>F.Y.B.A.</u> Paper No: <u>IV</u> Semester: II <u>Ind. Gov. & Politics</u>	Class: <u>S.Y.B.A.</u> Paper No: <u>VIII</u> Semester: IV <u>Inte. Rela.</u>	Class: <u>T.Y.B.A.</u> Paper No: <u>XIII</u> Semester: VI
Dec-2023	<u>Indian Federal System</u> - Characteristics - Centre-State Relation - Legislative, Administrative & Financial	<u>Deterrence</u> :- Introduction - Meaning & Nature - Feature of Deterrence - Types of Deterrence	<u>Maulana Azad</u> :- Intro. - Views on Religion & Politics - Views on Hindu-Muslim - Idea of Nationalism and Synthesis Nationalism
Jan-2024	<u>Election Commission</u> <u>A Electoral process in India</u> - Election Commission - Electoral process - Electoral Reforms in India	<u>Arms Race, Control and Disarmament</u> :- - Type of Arms race - Reasons of Arms race - Meaning & Types of Arms Control - Meaning of Disarmament - UN and India	<u>Jawaharlal Nehru</u> :- - Views on Nationalism - Democracy and Socialism - Idea of Secularism - Views on Internationalism <u>M.N. Roy</u> :- Intro; Critique of Marx
Feb-2024	<u>System of Political Parties in India</u> - Features of Multi-Party system in India - Functions of Political Parties	<u>Major Issues in Inte. Politics</u> - Terrorism & Environmentalism <u>International Justice</u> :- - Meaning & Nature - Obstacle to Inte. Justice - UN and Inte. Justice - International Court of Justice	<u>Radical or New Humanism</u> <u>Radical Democracy</u> <u>Dr. Babasaheb Ambedkar</u> :- - View on Religion & Society - Idea of Democracy - Economic Thought
Mar-2024	<u>Pressure Groups</u> :- - Types of Press. Groups - Politics of Pressure Groups - Difference - Political Parties & Press. Groups	<u>International and Regional Organization</u> :- Introduction - IMF, WTO - SAARC - ASEAN	<u>Jayaprakash Narayan</u> :- - Views on Socialism and Democracy - Idea of Total Revolution

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Department of History
Dr. R.J. Mane

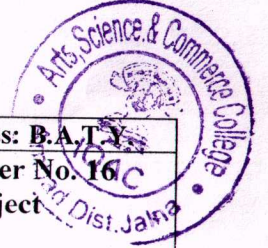


Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.	Class: B.A.T.Y.
	HIS - Core Course CC-1B: History of Ancient India (Beginning to 320 A.D.) Semester: I	His-05 CC-3 AHistory of Medieval India (A.D. 1526 to 1757 A.D.) Semester: III	<i>Fields of History</i> Semester: V <i>Paper no - 13</i>	Paper No. 12 Project Semester: V
July 2023	Chapter - 1 - Sources of Ancient India a. Archaeological Sources b. Literary Sources	Chapter I: Sources A) Literary B) Archelological	Chapter I : Introduction of Archaeology : a) Meaning and object b) Archaeology and Arthropology,	Project
August 2023	Chapter - 2 - Harappa Civilization and Transitions in Vedic Culture a. Polity b. Socio-Economy c. Religion	Chapter - II: Political And Administrative History a) A Brief Political History of Mughals b) Rise of Maratha Power Under Chhatrapati Shivaji Maharaj c) Administrate System Mughal and Maratha	Chapter II: Process in Archaeology: a) Search of Archaeological sites. b) Collection and classification of Archaeological material (remains) Museology: a) Definition of museum and Museology b) Aims and functions of History museums c) Documentation, identification, classification and indexing of the material. d) Use of History Museum.	
September 2023	Chapter - 3 - Second Urbanization and Rise of Heterodox Religions a. Process of urbanization and Mahajanpadas b. Jainism	Chapter - III: Religious Life a) Din-E- Ilahi b) Bhakti Movement, Sufism c) Sikhism, Nath Cult, Mahanubhav Cult	Chapter IV Tourism : a) Definition and object of Tourism, role of History in Tourism. b) Distinction between travelers and visitors, excursionist and business tour. c) Motivation of Tourism – Pleasure education, culture, Social, ethic, religion, health, history.	
October-2023	Chapter - 4 - Mauryan and Satvahana Dynasty a. Chandragupta Maurya and Currier and Achievements b. Ashoka and his Dhamma d. Satkarni I, Raja Hal, Gautamiputra Satkarni	Chapter - IV: a) Society - Slavery, Untouchability, Status of Women b) society, economy and cultural conditions under periods - c) Economic Conditions d) Art and Architecture	Chapter V Types and forms of Tourism : Domestic, regional, national and international.	

Dr. R.J. Mane

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Dr. R.J. Mane



Month	Class: B.A.F.Y. HIS-Core Course CC-2B: History of Ancient India (A.D. 320 to A.D. 1206)	Class: B.A.S.Y. His-08 CC-4B History of Europe	Class: B.A.T.Y. PAPER NO. ⁰⁹ 13- HISTORIOGRAPHY	Class: B.A.T.Y. Paper No. 16C Project
	Semester: II	Semester: IV	Semester: VI	Semester: V
December 2023	Chapter - 1 - Gupta and Vakataka Dynesty a. Gupta Dynasty - Chandragupta - I, Samudragupta, Chandragupta - II, Golden Periods Age, Decline of Gupta	Chapter - I: Political Condition in Europe a) The Concert of Europe b) Congress of Vienna c) Age of Metternich c) Agrarian Revolution	Chapter - I: History : Definition, Nature, Scope, Kinds of History, History as a Science and History as an Art	Project
January 2023	Chapter - 2 - Vardhan Dynasty a. Prabhakar Vardhan b. Rajvardhan c. Harshvardhan d. Administration and	Chapter - II: Age of Revolution a) French Revolution b) Industrial Revolution	Chapter - II: History and Other branches of Knowledge : History and Archaeology, History and Anthropology History and Geography, History and Sociology, History and Economics, History and Political	
February 2023	Chapter - 3 - Chalukyas and Rashtrakutas a. Chalukya: Pulkeshi -- - I, Kirtivarman, Manglesh, Pulkeshi -- II b. Raashtrakutas -	Chapter - III: Unification Process and Issues in Europe a) Unification Italy b) Unification of Germany c) Eastern Question	Chapter - III: Sources of History: Classification of Sources: Evaluation of sources -- Authenticity and credibility. Chapter - IV: Modern Thinkers of History: Ranke, Hegel, Karl Marx.	
March 2023	Chapter - 4 - Chalukyas of Kalyani a. Tailap - II c. Vikramaditya - II	Chapter - IV: World War a) World War I: Causes and Effects b) World War - II: Causes and	Chapter - V: Major trends in Indian History writing: Imperialist, Nationalist, Marxist, Subaltern. Use of History	

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Department of History

Mr. Nagwe K.A.



Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.	Class: B.A.T.Y.
	HIS-Core Course CC-1A: History of Marathas (1630 A.D. to 1707 A. D.)	His-06 CC-3B History of Colonial India (A.D. 1757 to A.D. 1857)	PAPER NO. 10 : HISTORY OF INDIAN NATIONAL MOVEMENT (A.D. 1885- A.D. 1947)	Paper No. 11 History of India (1757-1885)
	Semester: I	Semester: III	Semester: V	Semester: V
July 2023	Chapter 1 : Sources and Rise of Maratha Power A. Sources of Maratha History B. Rise of Maratha Power a. Causes b. Geography, Political, Socio-Religious and Economic background c. Shahaji Bhosle d. Shivaji - Adilshahi Relations	Chapter - I: Historical Background of India 18th Century a) Society b) Economy c) Military	Chapter I: Background : Nature, policies and administration of British rule in India	Chapter I: Advant in European Powers in India
August 2023	Chapter - 2 : Shivaji –Mughal Relations and Coronation of Shivaji a. Attack on Shahistakhan b. Invasion of Mirza Raja Jaising and Treaty of Purandar c. Shivaji's Visit to Agra and Back to Raigadh d. Coronation of Shivaji e. Chhatrapati Sambhaji	Chapter - II: Judiciary, Press and Education a) Evolution in Judiciary System b) Development of Press c) Development in Education System d) Rise to Reform Movements	Chapter II: Rise of Nationalism in India – Causes and Developments Indian National Congress and National movement : a) Origin of Indian National Congress, b) Leadership of moderates and extremists.	Chapter II: Expasion and Consolidation of British Power Chapter III: Early Phase of Briish Rule
September 2023	Chapter - 3 - Maratha War of Independency a. Chhatrapati Rajaram b. Maharani Tarabai	Chapter - III: Social Reform Movements b) BrahmoSamaj c) Wahabi and Devband	Chapter III: Revolutionary movement : Rise, nature and importance of the revolutionary movement. Chapter IV: Nationalist	Chapter IV: Economy Agririan Settlement Industry Femine
October-2023	Chapter - 4 - Administration of Maratha Power a. Civil b. Judicial c. Military	Chapter - IV: Resistance to the Colonial Rule a) Tribal Uprisings, Santhal (1856), Bhill, Koli and Ramoshi (1822), Uprisings in Maharashtra. b) Peasants Resistance, Panba Agrarian c) Revolt of 1857 Couses and effects	Chapter V: Rise of communalism leading partition, and independence of India	Chapter: VI: resistance of Colonial Rule Chapter: VII: Rise and Growth of Indian Nationalism

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Department of History
Mr. Nagwe K.A.



Month	Class: B.A.F.Y. HIS-Core Course CC-2A: History of Marathas (1707 A.D. to 1818 A. D.) Semester: II	Class: B.A.S.Y. His-07 - CC- 4A History of Modern India (A.D. 1857 to A.D. 1947) Semester: IV	Class: B.A.T.Y. PAPER NO. 14 – LANDMARKS IN THE HISTORY OF MODERN WORLD Semester: VI	Class: B.A.T.Y. Paper No. 15 : Glimpses of History of Marathwada Semester: VI
December 2023	Chapter - 1 - Transfer of Power from Chhatrapati to Peshwa a. Causes b. Chhatrapati Shahu c. Balaji Vishwanath	Chapter I: Revolts against Colonial Rule and Growth of Political Awakening a) Peasants, Tribal Uprising and Revolt of 1857. b) Contribution Provincial Association	Chapter I : Renaissance and Reformation in Europe	Chapter I: Political History of Marathwada
January 2023	Chapter - 2 - Peshwa Bajirao I and expansion of Maratha Power a. Peshwa Bajirao I b. Peshwa Nana Saheb c. Third Battle of Panipat	Chapter - II: Steps in Indian National Movement a) Moderates: 1858-1885 b) Extremists: 1885-1920 c) Organizations: 1947	Chapter II: American war of Independence : Causes, Course and consequences French Revolution : Causes, Course and Consequences.	Chapter II: Religious Movements Brahmanism 1. Buddhism 2. Jainism 3. Mahanubhav 4. Veer Shaiya 5. Varkari, 6. Sufism
February 2023	Chapter - 3 - Revival of Maratha Power a. Peshwa Madhav Rao b. Peshwa Bajirao II c. Anglo- Maratha Relation	Chapter - III: Anti-Colonial Rule Movement a) Non Co-operation Movement b) Civil Disobedience Movement c) Quit India Movement	Chapter III: Industrial Revolution : Background, Development, Significance. Chapter IV: First World War : Causes and Effects..	Chapter IV: Socio-Economical and Cultural History under Nizam Period.
March 2023	Chapter - 4 - Decline of the Maratha Power a. Causes and Consequences b. Administration of Peshwas	Chapter - IV: Constitutional Development and Partition a) Constitutional Development Mountbatten Plan Cripps Mission, Cabinet Mission, b) Partition of India c) Development Significance of Indian Constitution	Chapter V: Russian Revolution of 1917 : Causes, Course and Consequences. Chapter VI: Second World War : Causes, Course and effects.	Chapter V: Hyderabad Freedom Struggle

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Month	Class: BAFY	Class: BAFY	Class: BAFY
	Paper No: English [Comp.] II	Paper No: English [Opt.] III	Paper No: English [Opt.] IV
	Semester: II	Semester: II	Semester: II
Jan- 2024	Prose Section: 1. India's Message to the World – Swami Vivekananda 2. Are the Rich Happy – Stephen Leacock 3. I Have a Dream – Martin Luther King Jr. 4. Going Public: A Man of Wealth and Fame – Walter Issacson 5. Gold from the Grave – Anna Bhau Sathe	Unit I: A. Prose Types 1. The Essay 2. Autobiography 3. Biography B. Bacon's Essays 1. Of Truth 2. Of Death 3. Of Revenge 4. Of Parents and Children 5. Of Nobility	Unit I: A. Types of Poetry 1. The Epic 2. The Satire 3. The Idyll B. Samson Agonistes – John Milton
Feb-2024	Poetry Section: 1. Stopping by Woods on a Snowy Evening – Robert Frost 2. Poem of Serpents – Loknath Yashwant 3. Strange Meeting – Wilfred Owen 4. The Ballad of the Landlord – Langston Hughes 5. The Tiger and the Deer – Sri Aurobindo	Unit II: Autobiography The Race of My Life – Mikha Singh	Unit II: Bacon's Essays 1. Of Envy 2. Of Love 3. Of Adversity 4. Of Marriage and Single Life 5. Of Goodness and Good Nature 6. Of Boldness 7. Of Superstitions 8. Of Suspicion 9. Of Ambition 10. Of Beauty
Mar-2024	Grammar and Writing Skills: 1. Basic Sentence Types 2. Affixation and Word Formation 3. Phrases and Idioms 4. Antonyms and Synonyms 5. Translation Skills 6. Dialogue Writing 7. Blog Writing 8. Descriptive and Narrative Paragraph	Unit III: Drama Justice – John Galsworthy Unit IV: Fiction The Alchemist – Paulo Coelho	Unit III: Drama Doctor Faustus – Christopher Marlowe Unit IV: Fiction The English Patient – Machael Ondaatje

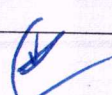
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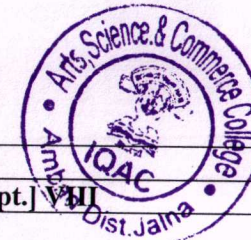
Name of Teacher: Khoje S. K.

Department of English

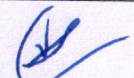
Month	Class: BASY	Class: BASY	Class: BASY
	Paper No: English [Comp.] III	Paper No: English [Opt.] V	Paper No: English [Opt.] VI
	Semester: III	Semester: III	Semester: III
July-2023	Prose Section: 1. Preamble, Fundamental Rights and Duties 2. Memorial Address to the Education Commission – Jyotirao Phooley 3. The Doll's House – Katherine Mansfield 4. How Tell a Story – Mark Twain 5. How Much Land Does a Man Need? – Leo Tolstoy	Unit I: Introduction to Types of Literature in English 1. British Literature 2. American Literature 3. Indian Literature	Unit I: Introduction to Types of Literature in English 1. Canadian Literature 2. Australian Literature 3. African Literature
Aug-2023	Poetry Section: 1. O Captain My Captain – Walt Whitman 2. The Leech Gatherer – William Wordsworth 3. Hope is the Thing With Feather – Emily Dickinson 4. The Conversation on a Magshar Night – Dalpat Chauhan 5. Money Madness – D, H. Lawrence	Unit II: Poetry 1. All the World's a Stage – Shakespeare 2. Give All to Love – R. W. Emerson 3. Freedom – Rabindranath Tagore Unit III: Drama The Comedy of Errors – William Shakespeare	Unit II: Poetry 1. I Believe – Robert Service 2. The Old Prison Judith Wright 3. Pine Tree in Spring – Chinua Achebe
Sept.-2023	Unit III: Grammar 1. Degrees of Comparison 2. Common Errors in Forming Sentences 3. Speech: Preparation and Presentation 4. Interview: Preparation and Conduct	Unit IV: Fiction As I Lay Dying – William Faulkner	Unit III: Drama The Strong Breed – Wole Soyinka Unit IV: Short Fiction Dancing Girls and Other Stories – Margaret Atwood
Oct -2023	Revision	Revision	Revision


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Month	Class: BASY Paper No: English [Comp.] IV Semester: IV	Class: BASY Paper No: English [Opt.] VII Semester: IV	Class: BASY Paper No: English [Opt.] VII Semester: IV
Jan- 2024	Prose Section: 1. Of Society and Civilization – Thomas Paine 2. My Greatest Olympic Prize – Jesse Owens 3. The Pleasures of Ignorance – Robert Lynd 4. The Lottery Ticket – Anton Chekhov 5. The Gift of the Magi – O Henry	Unit I: Periods of British Literature 1. Old English Period 2. Middle English Period 3. The Renaissance 4. Elizabethan Period 5. Romanticism	Unit I: Post-colonialism: A Background 1. Definition 2. Theory 3. Colonialism, Imperialism and Post-Colonialism
Feb-2024	Poetry Section: 1. To My Daughter – Balamani Amma 2. Amalkanti – Nirendrath Chakrabarty 3. Woman – Hira Bansode 4. And the Dream Bird – Sudhanya Tripura 5. Spring – Ezra Pound	Unit II: Poetry 1. A Ballad of Gentleness – Geoffrey Chaucer 2. An Ode to Himself – Ben Jonson 3. Death Be Not Proud – John Donne	Unit II: Poetry 1. A Far Cry from Africa – Derek Walcott 2. To New York – Leopold Sedar Senghor 3. Stone-Masons, My Father and Me – Namdeo Dhasal
Mar-2024	Grammar Section: 1. Use of Words in Sentences 2. The Sentence: Coordination and Subordination 3. Soft Skills: An Introduction 4. Indian English: A Brief Introduction	Unit III: Drama Duchess of Malfi – John Webster Unit IV: Prose Utopia – Thomas More	Unit III: Essays 1. Colonialist Criticism – Chinua Achebe 2. Orientalism – Edward Said 3. National Culture – Franz Fanon Unit IV: Fiction Tomb of Sand – Gitanjali Shree
Apr-2024	Revision	Revision	Revision

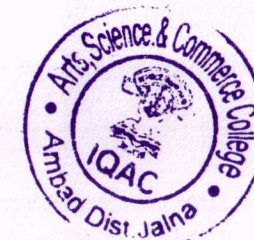

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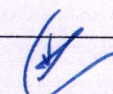
Annual Teaching Plan (Year: 2023-24)

Name of Teacher: Khoje S. K.

Department of English



Month	Class: BATY	Class: BATY	Class: BATY
	Paper No: English [Opt.] IX	Paper No: English [Opt.] X	Paper No: English [Opt.] XI
	Semester: V	Semester: V	Semester: V
July-2023	UNIT ONE: Phonetics 1. Introduction to English 2. Articulators in Speech Mechanism 3. The I.P.A. Symbols	Unit I: Introduction to Literary Theory 1. New Criticism 2. Russian Formalism 3. Structuralism 4. Marxism 5. Feminism	UNIT ONE: POETRY 1. I Shall Someday – Kamala Das 2. Pestilence in 19th Century Calcutta – Keki N. Daruwalla 3. Australia – A. D. Hope 4. Your Attention Please – Peter Porter 5. A Negro Labourer in Liverpool – Davis Rubadiri
Aug-2023	4. Classification of the Consonants and Vowel Sounds 5. Phonemic Transcription Unit II: Grammar 1. Definition and Nature 2. Word Classes: Open and Closed	6. Post-structuralism 7. Post-colonialism 8. Modernism 9. Post-modernism	6. Letter from Pretoria Central Prison – Arthur Nortje 7. Song – Alexander McLachlan 8. The Future – George Frederick Cameron 9. The Age of Chains – E. McG. Keane 10. On An Asian Poet Fallen Among American Translators – Asmine Gooneratne 11. To the Indian Who Died in Africa – T. S. Eliot
Sept.-2023	3. The Verb Types 4. The Phrase and Its Analysis 5. The Sentence: Simple and Multiple	Unit II: Texts for Study 1. The Death of the Author – Roland Barthes 2. From "The Discourse in the Novel" – Mikhail Bakhtin 3. From "The Second Sex" – Simone de Bouvoir	Unit II: Short Fiction 1. A Child's Dream of Star – Charles Dickens 2. The Tell-Tale Heart – Edgar Allen Poe 3. White Nights – Fyodor Dostoevsky 4. The Necklace – Guy De Maupassant 5. Living or Dead - Tagore
Oct -2023	Revision	Revision	Revision


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Month	Class: BATY	Class: BATY	Class: BATY
	Paper No: English [Opt.] XIII	Paper No: XIV	Paper No: XV
	Semester: VI	Semester: VI	Semester: VI
Jan- 2024	Unit I: Phonetics 1. Received Pronunciation, BBC English and Network English 2. The Three-Term Label 3. The Syllable and Accent in Phonemic Transcription	Unit I: Introduction to Literary Theory and Terms 1. Psychoanalytic Criticism 2. New Historicism 3. Archetypal Criticism 4. Speech Act Theory 5. Point-of-View	Unit I: Poetry 1. Send My Boy to School – Waman Kardak 2. Indian Weavers – Sarojini Naidu 3. Epithalamium – A. R. D. Fairburn 4. The Monstrous Biped – Razia Khan 5. Elegy for my Son – Patrick Fernando
Feb-2024	4. Intonation/Tones and Weak Forms in Sentence Transcription 5. Assimilation	6. Metre 7. Repartee 8. Three Unities 9. Sublime 10. Stream-of- Consciousness	Unit II: Fiction Sula – Toni Morrison
Mar-2024	II. Grammar 1. The Clause: Elements and Types 2. Sentence Co-Ordination and Subordination 3. The Concord 4. Acceptability: Syntactic and Semantic 5. Major Question Types	Unit II: Texts for Study 1. New Ethnicities – Stuart Hall 2. Cultural Diversity and Cultural Differences – Homo Bhabha 3. Imaginary Homeland – Salman Rushdie	Unit III: Drama No Exit – Jean Paul Sartre
Apr-2024	Revision	Revision	Revision

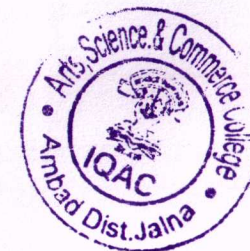

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Name of Teacher: Khoje S. K.

Department of English



Month	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY
	Paper No: M-1001	Paper No: M-1002	Paper No: M-1003	Paper No: M-1005-A	Paper No: RM-1006
	Semester: I	Semester: I	Semester: I	Semester: I	Semester: I
Aug-2023	Unit I: Introduction to English Poetry Unit II: Poetical Types	Unit I: Varieties of English, Standard English Unit II: Verbs, NP, VP, Unit III. Adj. Phrase, Prep. Phrase	Unit I: Virginia Woolf and Modernism Unit II: Jacob's Room	Unit I: Introduction to Psychology and Psychoanalysis Unit II: The Second Sex by Simone De Beauvoir	Research Methodology: Unit I: Research Process Unit II: The Mechanics of Writing
Sep-2023	Unit III: Select Major Schools and Movements Metaphysical, Romantic etc Unit IV: Modern Poetry W. B. Yeats, T. S. Eliot	Unit IV: The Simple Sentence, Negation, Adjuncts, disjuncts, Conjuncts	Unit III: To the Lighthouse Unit IV: The Complete Short Fiction [First 10]	Unit III: Cry the Peacock by Anita Desai Unit IV: Psychoanalysis and Feminism	Unit III/IV: Research Methods in Literature
Oct-2023	Unit V: Post-Modern Poetry Dylan Thomas, Robert Lowell	Unit V: Co-ordination, Subordination, the Complex Sentence	Unit V: A Room of One's Own	Unit V: Lacan's Psychoanalysis	Unit V: Research methods in language
Nov - 2023	Revision	Revision	Revision	Revision	Revision

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Month	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY	Class: MAFY
	Paper No: VII Drama	Paper No: VIII	Paper No: IX Modern and Postmodern Literature	Paper No: XI-E-A Colonial and Postcolonial Literature	Paper No: XII
	Semester: II	Semester: II Pragmatics	Semester: II	Semester: II	Semester: II
Dec-2023	Unit I: Understanding Drama Types of Tragedy and Comedy	Unit I: Pragmatics Unit II: Reference and Inference	Unit I: Modernism and Post-modernism in literature Unit II: The Waste Land – T. S. Eliot	Colonial and Postcolonial Literature Unit I: Theory Unit II: Kanthapura – Raja Rao	Field Project
Jan-2024	Unit II: Understanding Tragedy The Spanish Tragedy Unit III: Understanding Comedy As You Like li	Unit III: The Politeness Principle	Unit III: Drama Tara – Mahesh Dattani	Unit III: Things Fall Apart – Chinua Achebe	Field Project
Feb-2024	Unit IV: Understanding Tragi-comedy Endgame by Samuel Becket	Unit IV: Austin's Theory of Pragmatics	Unit IV: Slaughterhouse Five	Unit IV: A House For Mr. Biswas	Field Project
Mar-2024	Unit V: The Importance of Being Earnest	Unit V	Unit V: Postmodernism or The Cultural Logic of Late Capitalism	Unit V: The Beautiful One's Are Not Yet Born – Ayi Kwei Armah	Writing Field Project

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Name of Teacher: Khoje S. K.

Department of English



Month	Class: MASY	Class: MASY	Class: MASY	Class: MASY
	Paper No: IX Fiction	Paper No: X-F American Literature	Paper No: XI Literary Theory	Paper No: XII Research Methodology-Theory
	Semester: III	Semester: III	Semester: III	Semester: III
Aug-2023	Unit I: Time Machine – H. G. Wells Unit II: Home of the Spirits – Isabel Allende	Unit I: Poetry Walt Whitman, Langston Hughes and Joy Harjo	Unit : Neoclassicism An Essay of Dramatic Poesy – John Dryden	Unit I: Research Methods in Literature-I Marxism, Ambedkarism, Feminism
Sep-2023	Unit III: Travelling on One Log – Herta Muller Unit IV: Immortality – Milan Kundera	Unit II: Prose American Scholar – Ralph Waldo Emerson Of the Dawn of Freedom – W. E. B. Du Bois	Unit II: Biographia Literaria – S. T. Coleridge	Unit II: Research Methods in Literature-I Psychoanalysis, Post-colonialism etc
Oct-2023	Unit V: The Trial – Frantz Kafka Unit VI: Never Let Me Go – Kazuo Ishiguro Unit IX: Like the Flowering River	Unit III: Fiction Adventures of Huckleberry Finn The Way to Rainy Mountain	Unit III: Culture and Anarchy – Matthew Arnold Unit IV: The Function of Criticism – T. S. Eliot	Unit III/IV: Research Approaches in Language
Nov -2023	Thousand Faces of the Night – Gita Hariharan	Unit V: Drama All My Sons – Arthur Miller The Emperor Jones – Eugene O'Neill	Unit V: The Intentional Fallacy	Unit V: Writing Research Paper

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Month	Class: MASY	Class: MASY	Class: MASY	Class: MASY
	Paper No: XIII Non-Fiction	Paper No: XIV-F Diaspora Literature	Paper No: XV Critical Theory	Paper No: XVI Research Methodology-II Practice
	Semester: IV	Semester: IV	Semester: IV	Semester: IV
Dec- 2023	Unit I: Autobiography Long Walk to Freedom Unit II: Political Social Writings 1 to 2	Unit I: Introduction and Theory Unit II: Prose	Unit I: Annihilation of Caste – Dr. B. R. Ambedkar Unit II: Frederick Jameson	Unit I: Writing Research Dissertation Unit II: Review of Literature
Jan-2024	Unit III: Philosophical Writings	Unit III: Fiction 1 to 4	Unit III: Jacques Derrida	Unit III: Methodology
Feb-2024	Unit IV: Historical Writings	Unit IV: Poetry A. K. Ramanujan, Sujata Bhatt, Meena Alexander	Unit IV: What is an Author?	Unit IV
Mar-2024	Unit V: Scientific Writings	Unit V: Introduction to Writing-	Unit V: Feminist Criticism in Wildernessness4	Unit V

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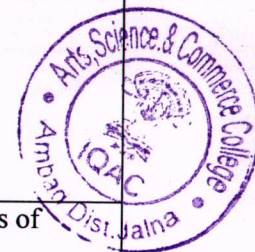
Name of Teacher: Dr. Sandip G Salve

Department Economics



Month	Class: B.A F.Y	Class: B.A S.Y	Class: B.A T.Y
	Paper No: MICRO ECONOMICS-I	Paper No: MICRO ECONOMICS-II	Paper No: INTERNATIONAL ECONOMICS (IX)
	Semester: I	Semester: III	Semester: V
Jun-2023	Unit-1 Introduction 1.1 Definitions of Economies: Adam Smith, Alfred Marshall and Lionel Robbins 1.2 Micro Economics: Meaning, Nature, Scope, Importance and Limitations 1.3 Difference between Micro Economics and Macro Economics	Unit 1: Theory of Production 1.1 Meaning of Production, Concept of Production Function. 1.2 The Law of Variable Proportions. It's economic implications. Diseconomies. 1.3 Law of Returns to Scale 1.4 Internal and External economics, Internal and External	Unit I – Importance OF Trade & Trade Theories:- Importance of the Study of International Economics,
Jul-2023	Unit-2 Demand and Supply Analysis 2.1 Demand-Meaning, Law of Demand, Determinants of Demand. 2.2 Demand Function-Linear and non-linear demand function. 2.3 Elasticity of demand - Meaning. Types of elasticity of demand: Price, Income and Cross elasticity, Methods of Measurement of price elasticity of demand	Unit 2: Analysis of Cost and Revenue 2.1 Concepts of cost- Money cost, Real cost, Opportunity cost. Fixed and Variable cost, Average cost and Marginal cost 2.2 Short run and Long run cost curves: Total, Average and Marginal 2.3 Relation between Marginal cost, Average cost and Total cost.	Inter-Regional & International trade, Absolute Advantage Theory Comparative advantage & opportunity cost, Heckscher-Ohlin theory of trade- main features, assumptions & limitations Unit II- Gains From Trade- Measurement & distribution, Trade as an engine of Economic growth,
Aug-2023	2.4 Supply - Meaning. Law of Supply, Supply Function, Elasticity of supply Unit 3 Theory of Consumer Behaviour 3.1 Meaning of Utility 3.2 Cardinal utility approach- Total and Marginal Utility, Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility	2.4 Concepts of Revenue and Revenue Curves: Total, Average and Marginal Revenue Unit-3: Market Structure 3.1 Meaning and classification of Market 3.2 Perfect Competition: Concept, Characteristics, Price Determination, Equilibrium of the Firm and Industry in short run and long run.	Concept of T. of T. & their importance in the theory of trade Unit III-Tariffs & Quotas- Types of tariffs & quotas, their impact in partial eq ^m analysis, Free trade & policy of tariff in relation to economic growth with special reference to India

Sep -2023	3.3 Ordinal Utility Approach - Indifference Curve - Meaning and properties of Indifference Curve 3.4 Consumer's Equilibrium with the help of Indifference curve, Income, Price and Substitution effects	3.5 Monopoly: Concept, Characteristics, Price and Output Determination Under Monopoly, Price Discrimination, It's types and conditions, 3.4 Monopolistic Competition: Concept, Characteristics, Price and Output Determination under Monopolistic Competition, Group Equilibrium, Concept of Selling cost 3.5 Oligopoly and Duopoly: Concept and Characteristics	Unit IV - Balance of Payments- Concept of BOP, in BOP, consequences of diseq^m in BOP, Various measures to correct deficit in the BOP,
Oct-2023	Unit-4 Analysis of Market Equilibrium 4.1 Meaning and Importance of Market Equilibrium. 4.2 Types of Equilibrium - Stable, Unstable and Neutral equilibrium. 4.3 Static and Dynamic Equilibrium, Partial and General Equilibrium	Unit -4: Theories of Distribution 4.1 Rent: Meaning, Ricardian and Modern Theory of Rent. 4.2 Wages. Meaning, Modern Theory of Wage, Wage differentiation and Collective Bargaining 4.3 Interest: Meaning, Loanable Fund Theory and Liquidity Preference Theory of Interest. 4.4 Profit: Meaning, Uncertainty Theory of Profit and Innovation Theory of Profit.	Relative merits, demerits & limitations of Devaluation 5th semester exam




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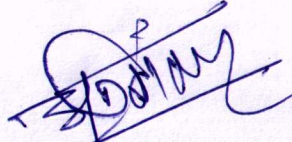


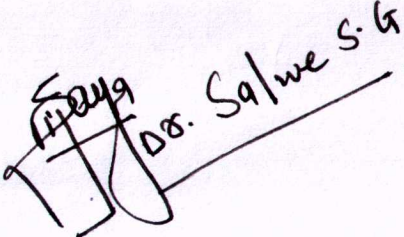
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Month	Class:	Class:	Class:	Class:
	Paper No: MICRO ECONOMICS-II	Paper No: DATA COLLECTION AND ANALYSIS	Paper No: Industrial Economics	Paper No: Project
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Dec- 2023	Unit 1: Theory of Production 1.1 Meaning of Production, Concept of Production Function. 1.2 The Law of Variable Proportions. It's economic implications. Diseconomies. 1.3 Law of Returns to Scale 1.4 Internal and External economics	Unit 1 Introduction: 1.1 Data: Meaning, Nature. Importance of Data for Research 1.2 Types Of Data: Qualitative & Quantitative 1.3 Types of Series: Sample, Direct and Continuous Series	Unit I: Introduction: Need, importance and role of industries in economic and social development, Industry and agriculture sector linkages, Industrial classification.	Project work
Jan-2024	Unit 2: Analysis of Cost and Revenue 2.1 Concepts of cost- Money cost, Real cost, Opportunity cost. Fixed and Variable cost, Average cost and Marginal cost 2.2 Short run and Long run cost curves: Total, Average and Marginal 2.3 Relation between Marginal cost, Average cost and Total cost. 2.4 Concepts of Revenue and Revenue Curves:	1.4 Technique of Sampling: Probable & Non-probable Unit-II- Collection of Data: 2.1. Primary Data: Meaning and Definition. 2.2. Methods of Collecting Primary Data. 2.3 Secondary Data, Meaning and Definition. 2.4 Sources of Secondary Data.	Unit II: Industrial Organization and Ownership Structure: Public, Private, Joint and Co-operative sectors, private corporate sector, MNCS and their role.	Project work
Feb-2024	Unit-3: Market Structure 3.1 Meaning and classification of Market 3.2 Perfect Competition: Concept, Characteristics, Price Determination, Equilibrium of the Firm and Industry in short run and long run. 3.3 Monopoly: Concept, Characteristics, It's types and conditions, 3.4 Monopolistic Competition: Concept, Characteristics, 3.5 Oligopoly and Duopoly: Concept and Character	Unit III Data Tabulation And Interpretation 3.1 Dimension Of Tabulation 3.2 Grapes & Diagrams 3.3 Classification and Tabulation of Data. 3.4 Frequency Distribution and Graphical Presentation of Data.	Unit III: Location and Dispersion: Location of industries - Theories of location, diversification, integration and merger of industrial units, Dispersion and problem of regional imbalance.	Project work

Mar-2024	Unit -4: Theories of Distribution 4.1 Rent: Meaning, Ricardian and Modern Theory of Rent. 4.2 Wages. Meaning, Modern Theory of Wage, Wage differentiation and Collective Bargaining 4.3 Interest: Meaning, Lovable Fund Theory and Liquidity Preference Theory of Interest. 4.4 Profit: Meaning, Uncertainty Theory of Profit and Innovation Theory of Profit.	Unit- IV-Measures of Central Tendency & Dispersion: 4.1 Central Tendency: Mean, Median & Mode Uses & Limitations 4.2 Desperation: Range, Standard Deviation, Variance, Co-efficient Of Variation:	Unit IV: Composition of Industrial Sector: Structure of large scale industries in India. Sugar, Cotton, Iron and Steel, Agro Processing Industries, Cottage and Village Industries and Rural industrialization.	Project work
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Dr. Salve S. G.


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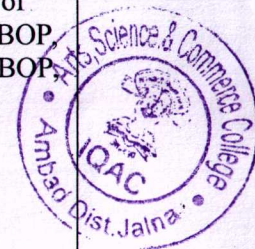
Name of Teacher: Dr. Sandip G Salve

Department Economics

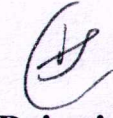


Month	Class: B.A F.Y	Class: B.A S.Y	Class: B.A T.Y
	Paper No: MICRO ECONOMICS-I	Paper No: MICRO ECONOMICS-II	Paper No: INTERNATIONAL ECONOMICS (IX)
	Semester: I	Semester: III	Semester: V
Jun-2023	Unit-1 Introduction 1.1 Definitions of Economies: Adam Smith, Alfred Marshall and Lionel Robbins 1.2 Micro Economics: Meaning, Nature, Scope, Importance and Limitations 1.3 Difference between Micro Economics and Macro Economics	Unit 1: Theory of Production 1.1 Meaning of Production, Concept of Production Function. 1.2 The Law of Variable Proportions. It's economic implications. Diseconomies. 1.3 Law of Returns to Scale 1.4 Internal and External economics, Internal and External	Unit I – Importance OF Trade & Trade Theories:- Importance of the Study of International Economics,
Jul-2023	Unit-2 Demand and Supply Analysis 2.1 Demand-Meaning, Law of Demand, Determinants of Demand. 2.2 Demand Function-Linear and non-linear demand function. 2.3 Elasticity of demand - Meaning. Types of elasticity of demand: Price, Income and Cross elasticity, Methods of Measurement of price elasticity of demand	Unit 2: Analysis of Cost and Revenue 2.1 Concepts of cost- Money cost, Real cost, Opportunity cost. Fixed and Variable cost, Average cost and Marginal cost 2.2 Short run and Long run cost curves: Total, Average and Marginal 2.3 Relation between Marginal cost, Average cost and Total cost.	Inter-Regional & International trade, Absolute Advantage Theory Comparative advantage & opportunity cost, Heckscher-Ohlin theory of trade- main features, assumptions & limitations Unit II- Gains From Trade- Measurement & distribution, Trade as an engine of Economic growth,
Aug-2023	2.4 Supply - Meaning. Law of Supply, Supply Function, Elasticity of supply Unit 3 Theory of Consumer Behaviour 3.1 Meaning of Utility 3.2 Cardinal utility approach- Total and Marginal Utility, Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility	2.4 Concepts of Revenue and Revenue Curves: Total, Average and Marginal Revenue Unit-3: Market Structure 3.1 Meaning and classification of Market 3.2 Perfect Competition: Concept, Characteristics, Price Determination, Equilibrium of the Firm and Industry in short run and long run.	Concept of T. of T. & their importance in the theory of trade Unit III-Tariffs & Quotas- Types of tariffs & quotas, their impact in partial eq ^m analysis, Free trade & policy of tariff in relation to economic growth with special reference to India

Sep -2023	33 Ordinal Utility Approach - Indifference Curve - Meaning and properties of Indifference Curve 3.4 Consumer's Equilibrium with the help of Indifference curve, Income, Price and Substitution effects	3.3 Monopoly: Concept, Characteristics, Price and Output Determination Under Monopoly, Price Discrimination, It's types and conditions, 3.4 Monopolistic Competition: Concept, Characteristics, Price and Output Determination under Monopolistic Competition, Group Equilibrium, Concept of Selling cost 3.5 Oligopoly and Duopoly: Concept and Characteristics	Unit IV - Balance of Payments- Concept of BOP, in BOP, consequences of diseq^m in BOP Various measures to correct deficit in the BOP
Oct-2023	Unit-4 Analysis of Market Equilibrium 4.1 Meaning and Importance of Market Equilibrium. 4.2 Types of Equilibrium - Stable, Unstable and Neutral equilibrium. 4.3 Static and Dynamic Equilibrium, Partial and General Equilibrium	Unit -4: Theories of Distribution 4.1 Rent: Meaning, Ricardian and Modern Theory of Rent. 4.2 Wages. Meaning, Modern Theory of Wage, Wage differentiation and Collective Bargaining 4.3 Interest: Meaning, Loanable Fund Theory and Liquidity Preference Theory of Interest. 4.4 Profit: Meaning, Uncertainty Theory of Profit and Innovation Theory of Profit.	Relative merits, demerits & limitations of Devaluation 5th semester exam




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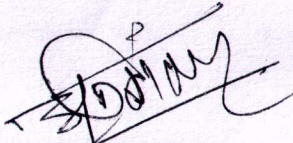
Annual Teaching Plan (Year: 2023-2024)

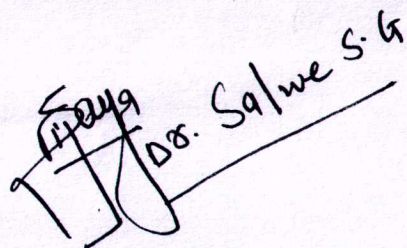


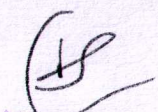
Month	Class:	Class:	Class:	Class:
	Paper No: MICRO ECONOMICS-II	Paper No: DATA COLLECTION AND ANALYSIS	Paper No: Industrial Economics	Paper No: Project
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Dec- 2023	Unit 1: Theory of Production 1.1 Meaning of Production, Concept of Production Function. 1.2 The Law of Variable Proportions. It's economic implications. Diseconomies. 1.3 Law of Returns to Scale 1.4 Internal and External economics	Unit 1 Introduction: 1.1 Data: Meaning, Nature. Importance of Data for Research 1.2 Types Of Data: Qualitative & Quantitative 1.3 Types of Series: Sample, Direct and Continuous Series	Unit I: Introduction: Need, importance and role of industries in economic and social development, Industry and agriculture sector linkages, Industrial classification.	Project work
Jan-2024	Unit 2: Analysis of Cost and Revenue 2.1 Concepts of cost- Money cost, Real cost, Opportunity cost. Fixed and Variable cost, Average cost and Marginal cost 2.2 Short run and Long run cost curves: Total, Average and Marginal 2.3 Relation between Marginal cost, Average cost and Total cost. 2.4 Concepts of Revenue and Revenue Curves:	1.4 Technique of Sampling: Probable & Non-probable Unit-II- Collection of Data: 2.1. Primary Data: Meaning and Definition. 2.2. Methods of Collecting Primary Data. 2.3 Secondary Data, Meaning and Definition. 2.4 Sources of Secondary Data.	Unit II: Industrial Organization and Ownership Structure: Public, Private, Joint and Co-operative sectors, private corporate sector, MNCS and their role.	Project work
Feb-2024	Unit-3: Market Structure 3.1 Meaning and classification of Market 3.2 Perfect Competition: Concept, Characteristics, Price Determination, Equilibrium of the Firm and Industry in short run and long run. 3.3 Monopoly: Concept, Characteristics, It's types and conditions, 3.4 Monopolistic Competition: Concept, Characteristics, 3.5 Oligopoly and Duopoly: Concept and Character	Unit III Data Tabulation And Interpretation 3.1 Dimension Of Tabulation 3.2 Grapes & Diagrams 3.3 Classification and Tabulation of Data. 3.4 Frequency Distribution and Graphical Presentation of Data.	Unit III: Location and Dispersion: Location of industries - Theories of location, diversification, integration and merger of industrial units, Dispersion and problem of regional imbalance.	Project work

Mar-2024	Unit -4: Theories of Distribution 4.1 Rent: Meaning, Ricardian and Modern Theory of Rent. 4.2 Wages. Meaning, Modern Theory of Wage, Wage differentiation and Collective Bargaining 4.3 Interest: Meaning, Lovable Fund Theory and Liquidity Preference Theory of Interest. 4.4 Profit: Meaning, Uncertainty Theory of Profit and Innovation Theory of Profit.	Unit- IV-Measures of Central Tendency & Dispersion: 4.1 Central Tendency: Mean, Median & Mode Uses & Limitations 4.2 Desperation: Range, Standard Deviation, Variance, Co-efficient Of Variation:	Unit IV: Composition of Industrial Sector: Structure of large scale industries in India. Sugar, Cotton, Iron and Steel, Agro Processing Industries, Cottage and Village Industries and Rural industrialization.	Project work
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Head of Dept


Dr. Salve S.G.


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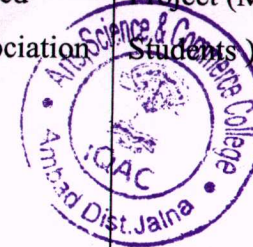
Name of Teacher: Dr. Belnur R. S.

Department Psychology

Month	Class: B.A. F.Y.	Class: B. A. S. Y.	Class: B.A. T. Y.	Class: B.A T.Y	Class: B.A F.Y	Class: B.A T.Y
	Paper No: CCPSY-3B (Bio Psychology)	Paper No:CCPSY-3 E (Abnormal Psychology)	Paper No: PSY 113 (Abnormal Psychology)	Paper: PSY 116 (Introduction Counseling)	Paper No: CCPSY3C (Experim.)	Paper: PSY 117 & 118 Practical
	Semester: I	Semester: III	Semester: V	Semester: V	Semest,: I	Semester: V
Jun-2023	Introduction to Biopsychology : 1 Biopsychology Defination, nature and scope, division of biopsychology a) physiological psychology psycho formacology, neuropsychology	Introduction of Abnormal Behavior: definition & Criteria of Abnormal Behavior, DSM Classification, DSM 5,	Abnormal Behaviour in our times : What is abnormal Psychology? LI Mental Disorders as Maladaptive behaviours. Mental Disorders as Maladaptive behaviours [DSM IV & ICD]- 10 classification of Mental Disorders The problem of Labeling	Definition of Counselling Psychology: ii. goals of counseling iii. Scope of counsel ing	Illusion	Small Research Project (Main Students)
Jul-2023	Brain and Its function: Structure of brain, neuron and nerves, function of neuron, the synapses	Anxiety Disorder: Definition & Symptom of Anxiety Disorder, Types of Anxiety Disorder, OCD	Causal Factors and Viewpoints in Abnormal Psychology: Cred it 1 What causes Abnormal Behavior? Necessary, sufficient and contributory causes - Models or view points for understanding	2) Building counseling relationship : a) Factors influencing the counseling process : b) Types of initial interview:	STM Rote and Recognitio n	Small Research Project (Main Students)

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Aug-2023	Organization of nervous system: CNS & PNS - structure and function, function abnormalities of neurotransmitters, dopamine function and effect serotonin hypothesis function and effect	Mood Disorder: Mood Disorder definition & Types, Causes of Mood Disorder, Treatment of Mood Disorder	Panic, Anxiety and their Disorders: The Fear and Anxiety Response patterns Anxiety Disorders Phobic Disorders Generalized Anxiety Disorder. Obsessive - Compulsive	Working in a counseling relationship: Counsellor skills in the understanding and action phases.	learning, Recall & paired association	Small Research Project (Main Students)
Sep - 2023	Endocrine system: Structure, functions, abnormalities of major glands thyroid,	Personality Disorder: Definition & Characteristics of Personality Disorder, Cluster A Personality Disorder, Cluster B Personality Disorder, Cluster C Personality Disorder,	Somatoform and Dissociative Disorders: Somatoform Disorder IJ Somatization Disorder Hypochondriasis.	Termination of counseling relationship: function after termination timing of termination Issues of	Retroactive Inhabitation & paired association	Small Research Project (Main Students)
Oct-2023	Endocrine system ; adrenal glands, pituitary, pancreas, pineal	Schizophrenia Disorder: Definition & Symptom of Schizophrenia Disorder, Subtypes Schizophrenia, types of other psychotic Disorder, etiology & treatment of Schizophrenia, Delusion Disorder	D Pain disorder. IJ Conversion disorder. Dissociative Disorders :	function of termination timing of termination Issues of	Size Consistency, figure and ground	Project work



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Annual Teaching Plan (Year: 2023-2024)



Name of Teacher: Dr. Belnur R. S.

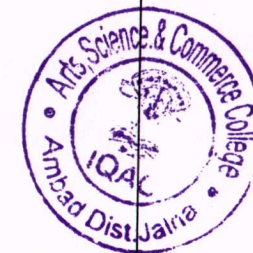
Department Psychology

Month	Class: B.A.F.Y	Class: B.A. S.Y.	Class: B.A. T.Y	Class: B.A T.Y	Class: B.A F.Y	Class: B.A T.Y
	Paper No: CCPSY-3E (Developmental psychology)	Paper No: SECPSY-3F (Psychological Testing)	Paper No: PSY 119 (Psychopathology)	Paper: PSY 122 (Counseling In Action)	Paper No: CCPSY-3E (Psychometric Test)	Paper: PSY 123 & 124 Practical
	Semester: II	Semester: IV	Semester: VI	Semester: VI	Semester: II	Semester: VI
Dec-2023	Introduction of Human Development : Defination, nature, scope, goals of human development, designs of studying development , improving development designs	Introduction to Psychological Testing: Definition of Psychological Testing, Characteristic Psychological Testing, Difference between Psychological Testing, assessment & measurement Classification of Psychological Testing, Uses of Psychological Testing, Administration of Psychological Testing, Controlling the use of Psychological Testing, Historical outline of Psychological Testing.	Mood Disorders: - Unipolar Mood Disorders: Normal Depression, Mild to Moderate Depressive Disorder, Major Depressive Disorder o Bipolar Disorder Cyclothymiacs,	Theories of counseling Psychoanalysis: Humanistic Behavioral counseling Cognitive therapy Bowen systems therapy Criscounseling	1. Standard Prograssive Material 2. NEO-PI (personality test)	Small Research Project (Main Students)
Jan-2024	Period of life of human development : 1) Life span a) Paental development, infancy	Test Development: Test Conceptualization, Test Construction, Item analysis, Test Standardization, Test revision &	Personality Disorders: Personality Disorders Clinical Features of Personality Disorders o Types of	2) The Importance of Career of counseling Career information Career development	3. Need of achievement 4. Frustration Test	Small Research Project (Main Students)

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Dr. Belnur R.S.

	and toddlerhood c) early Middle childhood, Early Middle Late childhood 2) Development conception : First, second, third stage	Documentation.	personality Disorders Paranoid, schizoid, Schizotypal Histrionic, Narcissistic, Antisocial, Borderline.	theories and counseling		
Feb-2024	Domains of human development : 1. Cognitive development Language Development 3. Physical Development, Emotional development moral development personality development	Reliability : Definition of Reliability, Classical test theory, Methods of estimating Reliability, Generalizability of test scores, Standard error of measurement, Factors affecting Reliability estimates, Reliability of speed tests, Difference Scores, Composite scores, behavioral measures, Interpretation of Reliability coefficient.	The Schizophrenias and Delusional Disorders: The clinical picture in schizophrenia Problems in Defining Sch subtypes of Schizophrenia Causal Factors and Treatment -	Marriage, Couple and Family Counseling: The changing forms of family life Family life and family life	5. Value Test 6. Family climate	Project work
Mar-2024	Socio cultural : contents for human development : 1. Family 2. Peer 3. Media and schooling	Validity: meaning & Definition of Validity, evolving concepts of Validity, Content Validity, Criterion-related Validity, Construct-related Validity.	Mental Retardation: Level of mental Retardation, Organic Brain Defects in Mental Retardation, Organic Retardation syndromes -, Cultural - Familial Mental Retardation, Treatment, outcome and prevention.	College Counseling and student life Counseling : College counseling Counseling with nontraditional students	7. Parents Child relationship 8. Color Progressive Materials(CPM)	Project work



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Dr. Belnur R. S.

Name of Teacher: Dr. S. P. Patil

Department : Psychology



	Class: B.A. F.Y	Class: B.A. S.Y.	Class: B. A. T. Y.	Class: B.A T.Y	B.A. S.Y.
	Paper No: CCPSY-3A	Paper No: SECPSY-3A	Paper No: Organizational Psychology	Paper: Practical	Paper: Practicum
	Semester: I	Semester: III	Semester: V	Semester: V	Semester : III
Jun-2023	The Science of Psychology: What is Psychology?- Historical Perspectives in Psychology, Modern Perspectives in Psychology, Scientific Methods, Application: How to enhance your academic performance	Introduction to Social Psychology: Social Psychology: An Overview- Is Scientific in Nature, Social Psychology Focuses on the Behavior of Individuals, Social Psychology Seeks to Understand the Causes of Social Behavior & thought, the search for basic principles in a Changing social World, Social Psychology: Advances at the Boundaries- Cognition & Behavior, two Sides of the same social Coin, the strengthen-or End, Social Neuroscience: where Social Psychology & research Meet, The role of Implicit processes, Taking Full Account of Social Diversity, How Social Psychology Answer the Questions They Ask: research as the Route to Increased Knowledge,	Historical context of organizational Behaviour :- J Definition of O.B. 1. Goals and elements of O.B. 2. Fundamental Concepts 3. Nature of Organization 4. Models of O.B.	Localization of Sound Depth Perception	Visit to Mental Hospital
Jul-2023	Sensation and Perception: Sensational. Definition of perception, Perceptual constancies: Size, shape and brightness Gestalt principles of perception, Perceptual illusion Application	Attitudes: Attitude formation: How Attitudes Develop, Classical conditioning: Learning Based on Association, instrumental Conditioning: Rewards for the Right Views, Observational Learning: Learning by Exposure to Others, When & Why Do Attitudes Influence Behavior? Role of the Social Context in the link Between Attitudes & Behavior, Strength of Attitudes, Attitude Extremity, Attitude Certainty,	Perspectives for understanding O.B.:- D Open system approach D Human Relations perspective D Socio-technical approach	3) Retroactive inhibition 4) Paired Associate Learning	Visit to Mental Hospital



Aug-2023	Learning: 1) Learning a) Defamation and nature 2. Types of Learning a) classical conditioning b) Operant conditioning c) observational conditioning	Interpersonal Attraction, Close Relationships & Love: Internal Sources of Attraction, External Sources of Attraction, Observable Characteristics of Others, Similarity, Reciprocal Liking or Disliking, Close Relationships, Romantic Relationships & the Mystery of Love	Person in the organization: - D Biographical characteristics Personality Definitions and Measurement C Major Personality attributes affecting O.B.	7) Effect of noise on performance 8) Bilateral Transfer of Training	Visit to Mental Hospital
Sep - 2023	Memory: 1) Definition nature of memory 2. Model of memory a) Level of Possessing b) Possessing Model c) Information possessing 3. Types of Memory a) sensory memory b) short term memory c) long term memory 4. forgetting a) curve of forgetting b) Causes of forgetting 5. improving memory	Groups and Individuals: Groups: when we Join... & when we leave, Groups: their key Concernments, the benefits & Costs-of-Joining, Effects of the presence of Others: From Task Performance to Behavior in Crowds,	Values, Attitudes and job satisfaction: - I Values: i. Importance of values ii. Types of values ii i. Values loyalty and ethical behaviour Attitudes:	12) Zeigarnik effect 13) Reaction time	
Oct-2023	Memory: 3. Types of Memory a) sensory memory b) short term memory c) long term memory 4. forgetting a) curve of forgetting b) Causes of forgetting 5. improving memory	Decision Making by Groups, How it occurs & the pitfalls it Faces, the decision-Making process, the Role of Leadership in Group Setting.			Writing a Visit Report

Matsyodari Shikshan Sanstha's
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Annual Teaching Plan (Year: 2023-2024)



	Class: B.A. F.Y.	Class: B.A. S.Y.	Class: B.A. T.Y.	Class: B.A. T.Y.	Class: B.A. S.Y.
	Paper No: CCPSY-2E	Paper No: CCPSY-3B	Paper No: Organizational behavior	Paper: Practical	Paper No. CCPSY-3G
	Semester: II	Semester: IV	Semester: VI	Semester: VI	Semester: IV
Dec-2023	Intelligence: - i. Definition of intelligenceii. Measurement of intelligenceiii. Individual difference in intelligenceiv. Theories of intelligence	What is Positive Psychology? Traditional Psychology, why the Negative Focus? Positive Psychology, Health psychology, Focus on Research: Living Longer Through Positive Emotions, Positive Psychology and the Status Quo.	The individual in the organization: Motivation concept Early theories or motivation Need hierarchy theory Theory x and y Two factor theory MBO Employ involvement programs	I) Adjustmeh Inventory 2) Value Test	Happiness Scale Resilience Scale
Jan-2024	Personality: Definition and nature Personality, biological foundations and factors of Persnality, Theories of Personality, psychoanalytical, humanistic,social learning theory Measurement of personality: interview and observation, paper pencil test, projective techniques	The Meaning and Measure of Happiness: why a psychology of Well-being? , Objective versus Subjective Measures, Focus on Research, Definition and causes of Happiness and well-being,	The group and organization: Nature, types, and stages group development D Conditions affecting group functioning of organizational structure 0 Group Structure :- A)Roles B) Norms C) Status D)Sings	16 PF . Personality y l nv.:ntcry	Optimism Scale



Feb-2024	Motivation and Emotion : Defination and nature, motivational psychology, classification of motivation, theorsys of motivation, Emotion, Defination and nature of emotion	Positive Emotions and Well-Being: what are positive Emotions? Focus on Theory, positive Emotions and well-being, psychological Resources,	Communication in organizations: Communication model, llBarriers and sources Directions & network Communications and decision	Achicvemc Sentence Compic Test	PGI Health Questionnaire
Mar-2024	Personality: Definition and nature Personality, biological foundations and factors of Personality, Theories of Personality, psychoanalytical, humanistic, social learning theory Measurement of personality: interview and observation, paper pencil test, projective techniques	Resilience: what is Resilience? Development perspectives, Clinical perspectives, positive Effects of Trauma.	Leadership in organizations: Nature and types, Behavioral theories, Contingency theories and contemporary issues in leadership Leadership and Power Bases of power.	Serial Lea:ninr Level of mental	Spiritual Intelligence Scal



Matsyodari Shikshan Sanstha's
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Department of Psychology Sem II, III & IV
Time-Table (Year: 2023-2024)

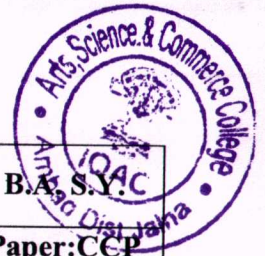
Day/ Time	9.00-9.50	9.50-10.00	10.00-10.50	10.50-11.40	11.40-12.30	12.30-1.20	1.20-2.10	2.10-3.00
Monday	S.Y. (Positive Psychology) PSP T. Y. (Counseling in Action) BRS	---	T.Y. (Psychopathology) BRS		---	S.Y. (Psychological Testing) BRS	---	F.Y. (Development Psychology) BRS
Tuesday	S.Y. (Positive Psychology) PSP T. Y. (Counseling in Action) BRS	--	T.Y. (Psychopathology) BRS		---	S.Y. (Psychological Testing) BRS	---	F.Y. (Development Psychology) BRS
Wednesday	T.Y. (Psychopathology) BRS	---	T.Y. (organizational Behavior) PSP		---	S.Y. (Positive Psychology) PSP	---	F.Y. (Psychology of Individual Differences) PSP T. Y. (Counseling)

[Signature]

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)

Name of Teacher: Dr. S. P. Patil

Department : Psychology

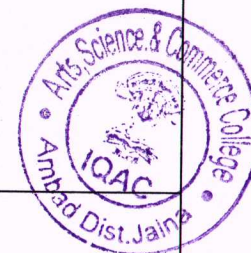


Month	Class: B.A. F.Y	Class: B.A. S.Y.	Class: B. A. T. Y.	Class: B.A T.Y	B.A. S.Y.C
	Paper No: CCPSY-3A Introduction to Psychology	Paper No: SECPSY-3A Social Psychology	Paper No: Organizational Psychology	Paper: Practical	Paper: CCP SY-3G Practicum
	Semester: I	Semester: III	Semester: V	Semester: V	Semester : III
Jun-2023	The Science of Psychology: What is Psychology?- Historical Perspectives in Psychology, Modern Perspectives in Psychology, Scientific Methods, Application: How to enhance your academic performance	Introduction to Social Psychology: Social Psychology: An Overview- Is Scientific in Nature, Social Psychology Focuses on the Behavior of Individuals, Social Psychology Seeks to Understand the Causes of Social Behavior & thought, the search for basic principles in a Changing social World, Social Psychology: Advances at the Boundaries- Cognition & Behavior, two Sides of the same social Coin, the strengthen-or End, Social Neuroscience: where Social Psychology & research Meet, The role of Implicit processes, Taking Full Account of Social Diversity, How Social Psychology Answer the Questions They Ask: research as the Route to Increased Knowledge,	Historical context of organizational Behavior:- J Definition of O.B. 1. Goals and elements of O.B. 2. Fundamental Concepts 3. Nature of Organization 4. Models of O.B.	Localization of Sound Depth Perception	Visit to Mental Hospital
Jul-2023	Sensation and Perception: Sensational. Definition of perception, Perceptual constancies: Size, shape and brightness Gestalt principles of perception, Perceptual illusion Application	Attitudes: Attitude formation: How Attitudes Develop, Classical conditioning: Learning Based on Association, instrumental Conditioning: Rewards for the Right Views, Observational Learning: Learning by Exposure to Others, When & Why Do Attitudes Influence Behavior? Role of the Social Context in the link Between Attitudes & Behavior, Strength of Attitudes, Attitude Extremity, Attitude Certainty,	Perspectives for understanding O.B.:- D Open system approach D Human Relations perspective D Socio-technical approach	3) Retroactive inhibition 4) Paired Associate Learning	Visit to Mental Hospital

Dr. S. P. Patil

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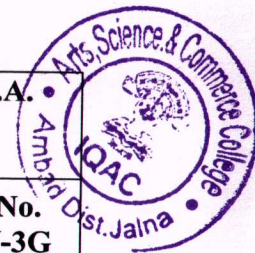
Aug-2023	Learning: 1) Learning a) Defamation and nature 2. Types of Learning a) classical conditioning b) Operant conditioning c) observational conditioning	Interpersonal Attraction, Close Relationships & Love: Internal Sources of Attraction, External Sources of Attraction, Observable Characteristics of Others, Similarity, Reciprocal Liking or Disliking, Close Relationships, Romantic Relationships & the Mystery of Love	Person in the Organization: - D Biographical characteristics Personality Definitions and Measurement C Major Personality attributes affecting O.B.	7) Effect of noise on performance 8) Bilateral Transfer of Training	Visit to Mental Hospital
Sep - 2023	Memory: 1) Definition nature of memory 2. Model of memory a) Level of Possessing b) Possessing Model c) Information possessing 3. Types of Memory a) sensory memory b) short term memory c) long term memory 4. forgetting a) curve of forgetting b) Causes of forgetting 5. improving memory	Groups and Individuals: Groups: when we Join... & when we leave, Groups: their key Concernments, the benefits & Costs-of-Joining, Effects of the presence of Others: From Task Performance to Behavior in Crowds,	Values, Attitudes and job satisfaction: - I Values: i. Importance of values ii. Types of values ii i. Values loyalty and ethical behaviour Attitudes:	12) Zeigarnik effect 13) Reaction time	
Oct-2023	Memory: 3. Types of Memory a) sensory memory b) short term memory c) long term memory 4. forgetting a) curve of forgetting b) Causes of forgetting 5. improving memory	Decision Making by Groups, How it occurs & the pitfalls it Faces, the decision-Making process, the Role of Leadership in Group Setting.			Writing a Visit Report




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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)



Month	Class: B.A. F.Y.	Class: B.A. S.Y.	Class: B.A. T.Y.	Class: B.A T.Y	Class: B.A. S.Y.
	Paper No: CCPSY-1 E Psychology of Individual Differences	Paper No: CCPSY-3B Positive Psychology	Paper No: Organizational behavior	Paper: Practical	Paper No. CCPSY-3G Practicum Testing
	Semester: II	Semester: IV	Semester: VI	Semester: VI	Semester: IV
Dec-2023	Intelligence: - i. Definition of intelligenceii. Measurement of intelligence iii. Individual difference in intelligenceiv. Theories of intelligence	What is Positive Psychology? Traditional Psychology, why the Negative Focus? Positive Psychology, Health psychology, Focus on Research: Living Longer Through Positive Emotions, Positive Psychology and the Status Quo.	The individual in the organization: Motivation concept Early theories or motivation Need hierarchy theory Theory x and y Two factor theory MBO Employ involvement programs	I) Adjustmeh Inventory 2) Value Test	Happiness Scale Resilience Scale
Jan-2024	Personality: Definition and nature Personality, biological foundations and factors of Persnality, Theories of Personality, psychoanalytical, humanistic,social learning theory Measurement of personality: interview and observation, paper pencil	The Meaning and Measure of Happiness: why a psychology of Well-being? , Objective versus Subjective Measures, Focus on Research, Definition and causes of Happiness and well-being,	The group and organization: Nature, types, and stages group development D Conditions affecting group functioning of organizational structure 0 Group Structure :- A)Roles B) Norms C) Status D)Sings	16 PF . Personality y l nv.:ntcry	Optimism Scale

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Ambad Dist. Jalna-431204

	test, projective techniques				
Feb-2024	Motivation and Emotion : Definition and nature, motivational psychology, classification of motivation, theorys of motivation, Emotion, Defination and nature of emotion	Positive Emotions and Well-Being: what are positive Emotions? Focus on Theory, positive Emotions and well-being, psychological Resources,	Communication in organizations: Communication model, llBarriers and sources Directions & network Communications and decision	Achicveme Sentence Compic Test	PGI Health Questionnaire
Mar-2024	Conflict and Frustration : definition of conflict, types of conflict, causes of conflict, frustration: definition and causes of frustration,	Resilience: what is Resilience? Development perspectives, Clinical perspectives, positive Effects of Trauma.	Leadership in organizations: Nature and types, Behavioral theories, Contingency theories and contemporary issues in leadership Leadership and Power Bases of power.	Serial Lea:ninr Level of mental	Spiritual Intelligence Scal



Dr. S. P. Patil

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Dr. S. P. Patil

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Annual Teaching Plan (Year: 2023-2024)

Name of Teacher: New Person.Department: Home Science

Month	Class: <u>B.A First Year</u> Paper No: <u>II Basic Nutrition</u> Semester: I	Class: <u>B.A Second year.</u> Paper No: <u>II Fundamentals of Textile & Clothing</u> Semester: III	Class: <u>B.A Third Year</u> Paper No: <u>XIV Housing & Interior Decoration</u> Semester: V
Jun-2023	unit I - Food. Concept, definition, Malnutrition	(Fiber to fabric) unit I st fundamentals of Textile Fibre.	fundamental of Art & design. unit I st - Introduction & foundation of Art.
Jul-2023	unit II Nutrients in Food i) Macro nutrition b) Micro nutrition Protein, Carbo & fat	unit II finishes i) Physical finishes. ii) chemical finishes.	unit II The colour. classification, determination
Aug-2023	unit III Micronutrition. Vitamin's & Mineral.	unit III Clothing dyes & Printing. classification dyes.	unit III colour & Scheme.
Sep-2023	unit IV Water. ii) fiber - iii) Medicinal Properties of food.	unit IV Type of Printing - Direct Printing Discharge Printing. Resist- Printing.	unit IV flower Arran- gement.
Oct-2023	unit V Methods of Cooking. ii) Food Preservation Methods.	unit V fundamental of Embroidery. History, Rules, Principle of design	unit IV floor Decoration Type of Rangoli



Principal

Miss S. Arts, Science & Commerce College

Ambad Dist. Jalna-431204

H.O. Dept.

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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)



Month	Class: Paper No: Semester: II	Class: <u>B.A Second Year.</u> Paper No: <u>VII Human development-</u> Semester: IV <u>(Late childhood &</u>	Class: <u>B-A Third Year.</u> Paper No: <u>VIII Human development-</u> Semester: VI <u>Adulthood &</u>
Dec- 2023		<u>Adolescence)</u> Unit I - Late childhood developmental task.	Unit-I <u>old age</u> <u>Early Adulthood-</u> <u>(18 to 40 years)</u>
Jan-2024		Unit II <u>Late childhood</u> <u>Cognitive & Language.</u>	Unit II <u>Middle adulthood</u> <u>Middle age (40 to 60 years)</u>
Feb-2024		Unit III <u>Early adolescence</u> <u>Puberty (12-16 years)</u> i) sex education ii) physical & physiological change.	Unit III <u>Late adulthood/</u> <u>old age age (60 to</u> <u>death)</u>
Mar-2024		Unit- IV <u>Adolescence,</u> <u>Cognitive Language &</u> <u>Moral Development.</u>	Unit- IV <u>Adjustment-</u> <u>to different areas.</u> i) retirement ii) Govt & non Govt- agencies working for elderly.



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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna



Name of Teacher: Dr. M. N. Gaikwad

Annual Teaching Plan (Year: 2023-2024)

Department: Home Science

Month	Class: <u>B. A F.Y.</u> Paper No: <u>I</u> Semester: I <u>Family Resource</u>	Class: <u>B. A S.Y. (Second year)</u> Paper No: <u>Human development</u> Semester: III	Class: <u>B. A F.Y. Third year</u> Paper No: <u>Marriage & family dynamic</u> Semester: V
Jun-2023	Management - Unit I st - Home Management - & Family Resource Management	Unit I Introduction to Human development	Unit I Marriage as an Institution. → function of Marriage → Type of Marriage
Jul-2023	Unit II Family Income & Saving and Investment A) Family Income B) <u>Saving & Investment</u>	Unit II The beginning of New life.	Unit II The family stages, Type, Role of husband & wife.
Aug-2023	Unit III factor motivating management - Value, Goal, standard & decision making.	Unit III Period of infancy to early childhood. (6 year)	Unit III Adjustment - Parenthood & family crises.
Sep-2023	Unit IV Work simplification Meaning, Importance. Mundel's Law of changes.	Unit IV childhood Problem. ① child rearing practices	Unit IV Law Related to women & counseling.
Oct-2023	Unit IV fatigue and avoidance of fatigue. & Revision.	b) Behavioral Problem. in early childhood - Thumb sucking - bed wetting. temper.	Unit IV Law Counse- ling scope, definition, importance premarital, post marital. counseling.

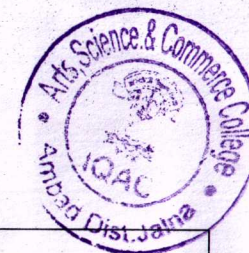


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Head of Dept.
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Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024) Home science -



Month	Class: B.A.F.Y. Paper No: <u>III</u> Semester: II <u>Extension</u>	Class: B.A.S.Y. Paper No: <u>Fundamental Textile</u> Semester: IV	Class: B.A.T.Y. Paper No: <u>X Housing and</u> Semester: VI <u>Interior Decoration</u>
Dec-2023	Unit <u>1st</u> Education. Education. Education & Ext. Education.	Unit I Principle of clothing Construction.	Unit I <u>1st</u> Housing.
Jan-2024	Unit <u>II</u> Home science Extension, Role of Extension worker.	Unit II Selection of fibres and influencing selection of fabrics.	Unit II lighting & ventilation.
Feb-2024	Unit <u>III</u> Extension Methods. → Individual Methods → Group Contact Methods.	Unit <u>III</u> Laundry science. a) Bleaching agents. b) Starches. c) Stain removers.	Unit <u>III</u> Furniture Arrangement.
Mar-2024	Unit <u>IV</u> Community development. Unit <u>V</u> Rural Rural Society & Rural Problem.	Unit <u>IV</u> Wardrobe management. a) Wardrobe for all age group. b) Care of clothing all type of fibre.	Unit <u>IV</u> Home furnishing. Curtain. Floor Covering - Rugs & Carpet.



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2023-2024)



Department ofPhysical Education.....

Month	Class: BAFY	Class: BASY	Class: BATY
	Paper: I (101) Philosophical, Sociological Foundations and History of Physical Education.	Paper: IV (201) Health Education and Recreation in Physical Education.	Paper: VII (301) Ancient and Modern History of Physical Education and Sports. Paper: VIII (302) (Main) Sports Psychology and Management in Physical Education.
	Semester: I	Semester: III	Semester: V
June-2023	Unit-I: Philosophical Foundations: (a) Meaning and Definition of Philosophy of Physical Education. (b) Component of Philosophy its Application in the field of Physical Education. (c) Traditional and Modern Philosophies their implication in the program of Education. (d) Philosophies of Education applied to Physical Education. (I) Idealism (II) Naturalism (III) Realism (IV) Humanism Unit Test-I	Unit-I: Health Education: (a) Concept and Objectives of Physical Education. (b) Importance of Health Education. (c) Principles of Health Education.	Unit-I: Introduction of Physical Education in Ancient India: (a) Vedic Period (b) Epic Period (c) Buddhist Period Unit-II: Physical Education in The State of Sparta and Athens. (a) Physical Education in Ancient Rome. (b) Physical Education and Moral Education. (c) Physical Education in Mughal Period. Unit Test -I Unit-III: Physical Education in India after Independence: (a) Physical Education in British Period. (b) Ancient Olympic Games, Historical Background. (c) Modern Olympic Games.

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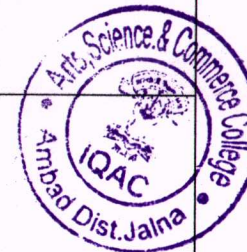
Kushtadikar J. W
 CPHY. Edu)

July-2023	Unit-II: Sociological Foundations: (a) Sociological Basis of Physical Education. (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) Integrations of Physical Education with History. (b) Integration of Physical Education with Psychology. (c) Integration of Physical Education with Sociology. Unit Test-II	Unit-II: Contemporary 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 Test – I Unit-III: Family and Health Education: (a) Meaning Functions and Importance of Family as a Social Institution. (b) Role of Parents in Child Health. (c) Health Care During Disasters.	Unit-IV: Government Bodies and Policies in Physical Education: (a) Nature and Educational system in Modern India. (b) Education and Physical Education Policies in India. (c) Central Advisory Board of Physical Education. Unit Test-II Unit-V: Scheme and Awards Related to Physical Education and sports: (a) Arjuna Award (b) Dronacharya Award (c) Rajiv Gandhi Khelratna Award Unit-VI: Institutions of Physical Education in India: (a) Y.M.C.A College of Physical Education of Madras. (b) LNIPE Gwalior and NSNIS Patiyala. (c) HVPM Amravati. Unit Test-III
Aug-2023	Unit-IV: Nature of Physical Education System: (a) Ancient India and Mediaeval India. (b) Physical Education in Ancient Civilization with reference to (I) India (II) Greece (III) Rome (IV) Egypt (c) Development of Physical Education with special reference to (I) U.S.S.R (II) U.S.A.	Unit-IV: Recreation in Physical Education and Sports: (a) Meaning, Need and Scope of Recreation. (b) Principles of Recreation. (c) Types of Recreation . Unit Test-II	Paper: VIII (302) Unit-I: Psychology in Physical Education and Sports: (a) Meaning, Nature and Scope of Sport Psychology. (b) Importance of Psychology in Sports. (c) Limitation of Psychology in Education. Unit-II: Growth and Development: (a) General Nature of Growth and Development. (b) Age and Behavior Characteristics. (c) Physical, Emotional and Social Development. Unit Test-I



	(III) Germany Unit-V: Physical Education in India during 20th Century. (a) Meaning, Definitions, Aims and Objectives of Physical Education. (b) Physical Education Training Institutions. (c) Physical Education after Independence. (I) Central Advisory Board of Physical Education (II) All India Council of Sports (AICS) (III) Netaji Subhash National Institute of Sports (NSNIS) (IV) Laxmibai National Institute of Physical Education (LNIPE) (V) Sports Authority of India (SAI) Unit Test-III		Unit-III: Motivation: (a) Meaning, Need and its Role in Physical Education. (b) Techniques of Motivation. (c) Psychological Factor Influencing Motivation. 
Sep -2023	Unit-VI: Historical Development of Ancient Olympic Games and Modern Olympic Games: (a) Philosophy of Olympism and its Impact on Sports Movements in India. (b) Current Trends in Physical Education (i) Role of Federations and Associations. (ii) Courses and Coaching Centres (iii) Policies of Central and State Governments for Physical Education and Sports.	Unit –V: Planning a Programme of Recreation: (a) Urban Recreation Programme. (b) Rural Recreation Programme. (c) Industrial Recreation Programme. Unit-VI: Agencies Promoting Recreation: (a) Facilities of Recreation . (b) Organization of Recreation. Unit Test -III	Unit-IV: Management in Physical Education: (a) Meaning, Definition and Philosophy of Management. (b) Aims, Objectives and Principles of Management. (c) Functions of Management. Unit Test-II Unit-V: Teaching methods 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 and Equipments.

	(c) Movements or Akhada and vyayam Shalas in Maharashtra. Unit Test-IV		(b) Principles of Purchasing Equipments. (c) Office Management, Meaning and Principles. Unit Test-III
Oct-	University Exams		



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)

Month	Class: BAFY	Class: BASY	Class: BATY
	Paper: II (102) Principles and Recent Development of Physical Education. Paper: III (103) Practical Physical Education.	Paper: V (202) Officiating, Coaching and Training Methods in Physical Education. Paper: VI (203) Practical Physical Education.	Paper: IX (303) Organization, Administration and Supervision in Physical Education Youth Welfare and Youth Services. Paper: X (304) (Main) Anatomy, Physiology and Kinesiology of Physical Education. Paper: XI (305) Practical Physical Education. Paper: XII (306) Practical (Main) Physical Education
	Semester: II	Semester: IV	Semester: VI
Nov-2023	Unit-I: Principles of Physical Education: (a) Biological Principles of Physical Education. (b) Sex Differences. (c) Principles of Exercise. (d) Body Types.	Unit-I: Officiating of Games and Sports: (a) Meaning and Definition of Officiating . (b) Importance of Officiating in Physical Education and Sports. (c) Qualities of Good Officials. (d) Duties and Responsibilities of Official. (e) Rules and Marking System of Indian and Foreign.	Unit-I: Organization, Administration and Supervision: (a) Meaning, Scope of Organization and Administration. (b) Objectives of Organization and Administration. (c) Guiding.

	Unit-II: Sociological Principles of Physical Education: (a) Social Values and Development of Traits. (b) Social Welfare. (c) Physical Education as Sociological Agency. Unit Test-I	Unit Test-I Unit –II: Coaching of games and Sports: (a) Meaning and Definition of Coaching. (b) Importance of Coaching in Games and Sports. (c) Qualities of Good Coach. (d) Duties and Responsibilities of Coaches. Unit Test-II	Unit-II: Organizing and Conducting Tournaments: (a) Deferent Types of Tournaments and Competition. (b) Knock Out League Tournament. (c) Merits and Demerits of Tournaments. Unit Test-I Unit-III: Intramurals Programme: (a) Need and Importance. (b) Objectives of Intramurals Programme. (c) Methods of Fixture.
Dec-2023	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 Physical Education and Sports in Educational Institutions. (b) Physical Education at Pre-Primary and Primary School Level. (c) Physical Education at Secondary and Higher Secondary School Level. (d) Physical Education at University at Professional Level. Unit Test-II	Unit-III: Origine and Development of Games and Sports: (a) Fundamental and Advanced Skills of Indian Games. (I) Kabaddi (II) Kho-Kho (III) Wrestling (I) Ball Badminton Unit-IV :Fundamental and Advance Skills of Foreign Games: (II) (a) Volley Ball (III) (b) Soft Ball (IV) (c) Badminton (V) (d) Table Tennis Unit Test-III	Unit-IV: Extramural Programme: (a) Need and Importance. (b) Selection and Coaching of Team. (c) Emotional Development of the Students. Unit Test-II Unit-V: Supervision in Physical Education: (a) Meaning, Purpose and Scope of Supervision. (b) Objectives and Features. (c) Qualities of Supervisor. Unit-VI: Youth Welfare and Youth Services: (a) Concept of Youth Welfare and Youth Services. (b) Youth Organization in India. (c) Social Services. Unit Test-III Paper: X (304) Unit-I: Introduction of Anatomy: (a) Meaning, Need and Importance of Anatomy. (b) Definition of Cell, Meaning in Structure. (c) Blood Composition, Function and Circulation.





Jan-2024	Unit-V: Sports and Game Organization in India: (a) District Level Organizations. (b) State Level Organizations. (c) National Level Organizations. (d) International Level Organizations. Unit-VI: Role of Association and Sports Bodies. (a) Indian Olympic Association (IOA). (b) International Olympic Association (IOA). (c) Sports Authority of India (SAI). (d) Central Advisory Board of Physical Education and Recreation. Unit Test-III	Unit-V: Training Methods in Games and Sports : (a) Need of Sports Training. (b) Principles of Sports Training. (c) Factors Affecting the Sports Training. (d) Procedure and planning of Specific Training. Unit-VI : Types of Training Methods in Games and Sports: (a) Weight Training. (b) Circuit Training. (c) Fartlek Training. (d) Interval Training. Unit Test-IV	Unit-II: Skeletal System: (a) Types of Bones and its Function. (b) Major Bones of the Body and there Location. (c) Tissue Definition, Structure, Function and Classification. Unit Test-I Unit-III: Introduction to Physiology: (a) Meaning, Need and Importance of Physiology. (b) Essential Properties of Living Organism. (c) Vital Capacity and 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 Test-II Unit-V: Respiratory System: (a) Structure of Respiratory Organs. (b) Function of Brain. (c) Effect of Exercise on Repertory System.
Feb-2024	Practical Physical Education: Track and Field Events (a) 100 mtrs. Sprint. (b) Long Jump. (c) Shot Put. Opted Game	Practical Physical Education: Track and Field Events (a) 200 mtrs. Running. (b) Triple Jump. (c) Discuss Throw. Opted Game (a) Volley Ball	Unit-VI: Introduction to Kinesiology: (a) Definition and Meaning of Kinesiology. (b) Fundamental and Applied Kinesiology. (c) Need and Importance of Kinesiology. Unit Test-III Practical Physical Education: Track and Field Events

(a) Kabaddi

Introduction
History of the Game
Fundamental Skills of the Game
Tactics of the Game
Rules and Regulations of the Games
Ground Marking System
Record Book

Introduction
History of the Game
Fundamental Skills of the Game
Tactics of the Game
Rules and Regulations of the Games
Ground Marking System
Record Book

- (a) 400 mtrs. Running.
- (b) High Jump.
- (c) Javelin Throw.
- (d)

Opted Game

- (a) Football

Introduction
History of the Game
Fundamental Skills of the Game
Tactics of the Game
Rules and Regulations of the Games
Ground Marking System
Record Book

Practical Physical Education:

Track and Field Events

- (a) 800 mtrs. Running
- (b) Officiating and Coaching and Rules of the Games.
- (c) Yogasanas.
 - (I) Tradasanas
 - (II) Chakrasanas
 - (III) Vajrasanas
 - (IV) Padmasanas
 - (V) Hallsanas
 - (VI) Shawasanas

- (d) Pranayama and Surya Namaskar.

Introduction
History of the Game
Fundamental Skills of the Game
Tactics of the Game
Rules and Regulations of the Games
Ground Marking System
Record Book



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2023-2024)

Name of Teacher: New Person.

Department: Home Science



Month	Class: <u>B.A First Year</u> Paper No: <u>II Basic Nutrition</u> Semester: I	Class: <u>B.A Second year.</u> Paper No: <u>II Fundamental of Textile & clothing</u> Semester: III	Class: <u>B.A Third Year</u> Paper No: <u>XIV Housing & Interior Decoration</u> Semester: V
Jun-2023	unit I - Food. Concept, definition, Malnutrition	(Fiber to fabric) unit I st fundamentals of Textile Fibre.	fundamental of Arts & design. unit I st - Introduction & foundation of Art.
Jul-2023	unit II Nutrients in Food i) Macro nutrition b) Micro nutrition Protein, Carbo & Fat	unit II finishes i) Physical finishes. ii) Chemical finishes.	unit II The colour. classification, dimension
Aug-2023	unit III Micronutrition. Vitamin's & Mineral.	unit III Clothing dyes & Printing. classification dyes.	unit III colour & Scheme.
Sep-2023	unit IV Water. ii) fiber - iii) Medicinal Properties of food.	unit IV Type of Printing - Direct Printing Discharge Printing. Resist Printing.	unit IV flower Arran gement.
Oct-2023	unit V Methods of Cooking. ii) Food Preservation Methods.	unit V fundamental of Embroidery. History, Rules, Principle of design	unit IV floor Decoration Type of Rangoli



Principal

Miss s Arts, Science & Commerce College
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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2023-2024)



Month	Class: Paper No: Semester: II	Class: <u>B.A Second Year.</u> Paper No: <u>VII Human development-</u> Semester: <u>IV (Late childhood & Adolescence)</u>	Class: <u>B-A Third Year.</u> Paper No: <u>VIII Human development-</u> Semester: <u>VI Adulthood & Oldage</u>
Dec-2023		Unit I - Late childhood developmental task.	Unit-I Early Adulthood- (18 to 40 years)
Jan-2024		Unit II Late childhood Cognitive & Language.	Unit II Middle adulthood Middle age (40 to 60 years)
Feb-2024		Unit III Early adolescence/ Puberty (12-16 years) i) sex education ii) physical & physiological change	Unit III Late adulthood/ old age age (60 to death)
Mar-2024		Unit-IV Adolescence, Cognitive Language & Moral Development.	Unit-IV Adjustment- to different areas. i) retirement ii) Govt & non Govt- agencies working for elderly.



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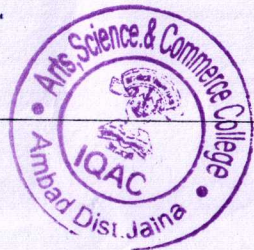
Arts, Science & Commerce College, Ambad Dist Jalna

Name of Teacher: Dr. M. N. Gaikwad

Annual Teaching Plan (Year: 2023-2024)

Department: Home Science

Month	Class: <u>B. A F.Y.</u> Paper No: <u>I</u> Semester: I <u>Family Resource</u>	Class: <u>B. A S.Y. (Second year)</u> Paper No: <u>Human development</u> Semester: III	Class: <u>B. A T.Y. Third year</u> Paper No: <u>Marriage & family</u> Semester: V <u>dynamic</u>
Jun-2023	Management - Unit I st - Home Management - & Family Resource Management	Unit I Introduction to Human development	Unit I Marriage as an Institution. → function of Marriage → Type of Marriage
Jul-2023	Unit II Family Income & Saving and Investment A) Family Income B) <u>saving & Investment</u>	Unit II The beginning of New life.	Unit II The family stages, Type, Role of husband & wife.
Aug-2023	Unit III Factor motivating management - Value, Goal, standard & decision making.	Unit III Period of infancy to early childhood. (6 year)	Unit III Adjustment - Parenthood & family crises.
Sep-2023	Unit IV Work simplification Meaning, Importance. Mundel's Law of changes.	Unit IV Childhood Problems. ① Child rearing practices	Unit IV Law Related to women & Counseling.
Oct-2023	Unit IV Fatigue and avoidance of fatigue & Revision.	b) Behavioral Problem. in early childhood - Thumb sucking - bed wetting. temper.	Unit IV Law Counse- ling scope, definition, importance premarital, post marital. counseling.

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Ambad Dist. Jalna-431204Head of Dept.
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Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024) Home science -



Month	Class: B.A.F.Y. Paper No: III Semester: II Extension	Class: B.A.S.Y. Paper No: fundamental Textile Semester: IV	Class: B.A.T.Y. Paper No: X Housing and Semester: VI Interior decoration.
Dec-2023	Unit 1 st Education. Education. Education & Ext. Education.	Unit I Principle of clothing Construction.	Unit I st Housing.
Jan-2024	Unit II Home science Extension, Role of Extension worker.	Unit II Selection of fibres and influencing selection of fabrics.	Unit II lighting & ventilation.
Feb-2024	Unit III Extension Methods. → Individual Methods → Group Contact Methods.	Unit III Laundry science. a) Bleaching agents. b) Starches. c) Stain removers	Unit III Furniture Arrangement
Mar-2024	Unit IV Community development- Unit V Rural Rural Society & Rural Problem.	Unit IV Wardrobe management. a) Wardrobe for all age group. b) Care of clothing all type of fibre.	Unit IV Home furnishing- Curtain. Floor Covering - Rugs & Carpet.



Matsyodari Shikshan Sanstha's
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 Annual Teaching Plan (Year: 2023-2024)



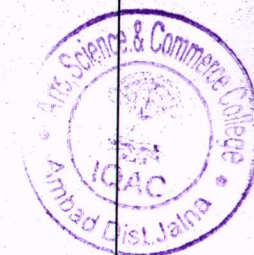
Department ofPhysical Education.....

Month	Class: BAFY	Class: BASY	Class: BATY
	Paper: I (101) Philosophical, Sociological Foundations and History of Physical Education.	Paper: IV (201) Health Education and Recreation in Physical Education.	Paper: VII (301) Ancient and Modern History of Physical Education and Sports. Paper: VIII (302) (Main) Sports Psychology and Management in Physical Education.
	Semester: I	Semester: III	Semester: V
June-2023	Unit-I: Philosophical Foundations: (a) Meaning and Definition of Philosophy of Physical Education. (b) Component of Philosophy its Application in the field of Physical Education. (c) Traditional and Modern Philosophies their implication in the program of Education. (d) Philosophies of Education applied to Physical Education. (I) Idealism (II) Naturalism (III) Realism (IV) Humanism Unit Test-I	Unit-I: Health Education: (a) Concept and Objectives of Physical Education. (b) Importance of Health Education. (c) Principles of Health Education.	Unit-I: Introduction of Physical Education in Ancient India: (a) Vedic Period (b) Epic Period (c) Buddhist Period Unit-II: Physical Education in The State of Sparta and Athens. (a) Physical Education in Ancient Rome. (b) Physical Education and Moral Education. (c) Physical Education in Mughal Period. Unit Test -I Unit-III: Physical Education in India after Independence: (a) Physical Education in British Period. (b) Ancient Olympic Games, Historical Background. (c) Modern Olympic Games.

July-2023	Unit-II: Sociological Foundations: (a) Sociological Basis of Physical Education. (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) Integrations of Physical Education with History. (b) Integration of Physical Education with Psychology. (c) Integration of Physical Education with Sociology. Unit Test-II	Unit-II: Contemporary 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 Test – I Unit-III: Family and Health Education: (a) Meaning Functions and Importance of Family as a Social Institution. (b) Role of Parents in Child Health. (c) Health Care During Disasters.	Unit-IV: Government Bodies and Policies in Physical Education: (a) Nature and Educational system in Modern India. (b) Education and Physical Education Policies in India. (c) Central Advisory Board of Physical Education. Unit Test-II Unit-V: Scheme and Awards Related to Physical Education and sports: (a) Arjuna Award (b) Dronacharya Award (c) Rajiv Gandhi Khelratna Award Unit-VI: Institutions of Physical Education in India: (a) Y.M.C.A College of Physical Education of Madras. (b) LNIPE Gwalior and NSNIS Patiyala. (c) HVPM Amravati. Unit Test-III
Aug-2023	Unit-IV: Nature of Physical Education System: (a) Ancient India and Mediaeval India. (b) Physical Education in Ancient Civilization with reference to (I) India (II) Greece (III) Rome (IV) Egypt (c) Development of Physical Education with special reference to (I) U.S.S.R (II) U.S.A.	Unit-IV: Recreation in Physical Education and Sports: (a) Meaning, Need and Scope of Recreation. (b) Principles of Recreation. (c) Types of Recreation . Unit Test-II	Paper: VIII (302) Unit-I: Psychology in Physical Education and Sports: (a) Meaning, Nature and Scope of Sport Psychology. (b) Importance of Psychology in Sports. (c) Limitation of Psychology in Education. Unit-II: Growth and Development: (a) General Nature of Growth and Development. (b) Age and Behavior Characteristics. (c) Physical, Emotional and Social Development. Unit Test-I



	(III) Germany Unit-V: Physical Education in India during 20th Century. (a) Meaning, Definitions, Aims and Objectives of Physical Education. (b) Physical Education Training Institutions. (c) Physical Education after Independence. (I) Central Advisory Board of Physical Education (II) All India Council of Sports (AICS) (III) Netaji Subhash National Institute of Sports (NSNIS) (IV) Laxmibai National Institute of Physical Education (LNIPE) (V) Sports Authority of India (SAI) Unit Test-III		Unit-III: Motivation: (a) Meaning, Need and its Role in Physical Education. (b) Techniques of Motivation. (c) Psychological Factor Influencing Motivation.
Sep -2023	Unit-VI: Historical Development of Ancient Olympic Games and Modern Olympic Games: (a) Philosophy of Olympism and its Impact on Sports Movements in India. (b) Current Trends in Physical Education (i) Role of Federations and Associations. (ii) Courses and Coaching Centres (iii) Policies of Central and State Governments for Physical Education and Sports. (c) Movements of Akhada and Vyayam	Unit -V: Planning a Programme of Recreation: (a) Urban Recreation Programme. (b) Rural Recreation Programme. (c) Industrial Recreation Programme. Unit-VI: Agencies Promoting Recreation: (a) Facilities of Recreation . (b) Organization of Recreation. Unit Test -III	Unit-IV: Management in Physical Education: (a) Meaning, Definition and Philosophy of Management. (b) Aims, Objectives and Principles of Management. (c) Functions of Management. Unit Test-II Unit-V: Teaching methods 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 and Equipments.



	Snaias in Maharashtra. Unit Test-IV		(b) Principles of Purchasing Equipments. (c) Office Management, Meaning and Principles. Unit Test-III
Oct-	University Exams		



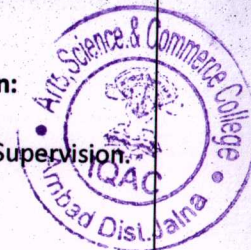
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)



Month	Class: BAFY	Class: BASY	Class: BATY
	Paper: II (102) Principles and Recent Development of Physical Education. Paper: III (103) Practical Physical Education.	Paper: V (202) Officiating, Coaching and Training Methods in Physical Education. Paper: VI (203) Practical Physical Education.	Paper: IX (303) Organization, Administration and Supervision in Physical Education Youth Welfare and Youth Services. Paper: X (304) (Main) Anatomy, Physiology and Kinesiology of Physical Education. Paper: XI (305) Practical Physical Education. Paper: XII (306) Practical (Main) Physical Education
	Semester: II	Semester: IV	Semester: VI
Nov-2023	Unit-I: Principles of Physical Education: (a) Biological Principles of Physical Education. (b) Sex Differences. (c) Principles of Exercise. (d) Body Types. Unit-II: Sociological Principles of Physical Education: (a) Social Values and Development of Traits. (b) Social Welfare. (c) Physical Education as Sociological Agency. Unit Test-I	Unit-I: Officiating of Games and Sports: (a) Meaning and Definition of Officiating . (b) Importance of Officiating in Physical Education and Sports. (c) Qualities of Good Officials. (d) Duties and Responsibilities of Official. (e) Rules and Marking System of Indian and Foreign. Unit Test-I Unit -II: Coaching of games and Sports: (a) Meaning and Definition of Coaching. (b) Importance of Coaching in Games and Sports. (c) Qualities of Good Coach. (d) Duties and Responsibilities of Coaches. Unit Test-II	Unit-I: Organization, Administration and Supervision: (a) Meaning, Scope of Organization and Administration. (b) Objectives of Organization and Administration. (c) Guiding. Unit-II: Organizing and Conducting Tournaments: (a) Deferent Types of Tournaments and Competition. (b) Knock Out League Tournament. (c) Merits and Demerits of Tournaments. Unit Test-I Unit-III: Intramurals Programme: (a) Need and Importance. (b) Objectives of Intramurals Programme. (c) Methods of Fixture.
Dec-2023	Unit-III: Classification of Children: (a) Psychological Bases of Classification.	Unit-III: Origine and Development of Games and Sports: (a) Fundamental and Advanced Skills of	Unit-IV: Extramural Programme: (a) Need and Importance. (b) Selection and Coaching of Team.

	(b) Biological Characteristics of Children. (c) Physiological and Sociological Characteristics of Children. Unit-IV: Recent Development of Physical Education: (a) Status of Physical Education and Sports in Educational Institutions. (b) Physical Education at Pre-Primary and Primary School Level. (c) Physical Education at Secondary and Higher Secondary School Level. (d) Physical Education at University at Professional Level. Unit Test-II	Indian Games. (I) Kabaddi (II) Kho-Kho (III) Wrestling (I) Ball Badminton Unit-IV :Fundamental and Advance Skills of Foreign Games: (II) (a) Volley Ball (III) (b) Soft Ball (IV) (c) Badminton (V) (d) Table Tennis Unit Test-III	(c) Emotional Development of the Students. Unit Test-II Unit-V: Supervision in Physical Education: (a) Meaning, Purpose and Scope of Supervision. (b) Objectives and Features. (c) Qualities of Supervisor. Unit-VI: Youth Welfare and Youth Services: (a) Concept of Youth Welfare and Youth Services. (b) Youth Organization in India. (c) Social Services. Unit Test-III Paper: X (304) Unit-I: Introduction of Anatomy: (a) Meaning, Need and Importance of Anatomy. (b) Definition of Cell, Meaning in Structure. (c) Blood Composition, Function and Circulation.
Jan-2024	Unit-V: Sports and Game Organization in India: (a) District Level Organizations. (b) State Level Organizations. (c) National Level Organizations. (d) International Level Organizations. Unit-VI: Role of Association and Sports Bodies. (a) Indian Olympic Association (IOA). (b) International Olympic Association	Unit-V: Training Methods in Games and Sports : (a) Need of Sports Training. (b) Principles of Sports Training. (c) Factors Affecting the Sports Training. (d) Procedure and planning of Specific Training. Unit-VI : Types of Training Methods in Games and Sports: (a) Weight Training. (b) Circuit Training. (c) Fartlek Training. (d) Interval Training.	Unit-II: Skeletal System: (a) Types of Bones and its Function. (b) Major Bones of the Body and there Location. (c) Tissue Definition, Structure, Function and Classification. Unit Test-I Unit-III: Introduction to Physiology: (a) Meaning, Need and Importance of Physiology. (b) Essential Properties of Living Organism. (c) Vital Capacity and its Measurement. Unit-IV: Muscular System:



	(c) Sports Authority of India (SAI). (d) Central Advisory Board of Physical Education and Recreation. Unit Test-III	Unit Test-IV	(a) Meaning, Structure Function of Skeletal Muscles. (b) Major Muscles of the Body. (c) Location of Major Muscles. Unit Test-II Unit-V: Respiratory System: (a) Structure of Respiratory Organs. (b) Function of Brain. (c) Effect of Exercise on Repertory System.
Feb-2024	Practical Physical Education: Track and Field Events (a) 100 mtrs. Sprint. (b) Long Jump. (c) Shot Put. Opted Game (a) Kabaddi Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book	Practical Physical Education: Track and Field Events (a) 200 mtrs. Running. (b) Triple Jump. (c) Discuss Throw. Opted Game (a) Volley Ball Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book	Unit-VI: Introduction to Kinesiology: (a) Definition and Meaning of Kinesiology. (b) Fundamental and Applied Kinesiology. (c) Need and Importance of Kinesiology. Unit Test-III Practical Physical Education: Track and Field Events (a) 400 mtrs. Running. (b) High Jump. (c) Javelin Throw. (d) Opted Game (a) Football Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book Practical Physical Education:



Track and Field Events

- (a) 800 mtrs. Running
- (b) Officiating and Coaching and Rules of the Games.

(c) Yogasanas.

- (I) Tradasanas
- (II) Chakrasanas
- (III) Vajrasanas
- (IV) Padmasanas
- (V) Hallsanas
- (VI) Shawasanas



(d) Pranayama and Surya Namaskar.

Introduction

History of the Game

Fundamental Skills of the Game

Tactics of the Game

Rules and Regulations of the Games

Ground Marking System

Record Book

Kuntadikar J.W
(HOD)
Physical Education

(Signature)
Principal
Mss s Arts. Science & Commerce College
Ambad Dist. Jalna-431204

Arts, Science & Commerce College, Ambad Dist Jalna

Name of Teacher: Dr. S.L. Gadhekar.

Annual Teaching Plan (Year: 2023-2024)

Department: Sociology.



Month	Class: <u>BATY</u> Paper No: <u>I</u> Semester: <u>I</u>	Class: <u>BATY</u> Paper No: <u>V</u> Semester: <u>III</u>	Class: <u>BATY</u> Paper No: <u></u> Semester: <u>V</u> <u>IX</u>
Jun-2023	<u>Topic I Introduction to sociology.</u> Definitions, nature and subject matter of sociology. sociological imagination, monthly test	<u>Indian society,</u> (i) Ideas of India, * Mahatma Gandhi - Nation Building, Hind Swaraj, * test.	<u>Sociological Traditions.</u> (i) Emergence of sociological thought * Period of Enlightenment. * French Revolution * test
Jul-2023	<u>Diverses fields and areas of opportunities in sociology,</u> Social structure monthly test.	* Jawaharlal nehru - state Building, Planning Development * Dr. Babasaheb Ambedkar - social reconstruction, critique on caste * test.	* Recent trends in sociological theory (ii) The pioneers. * August Comte - Positivism Law of three stages * test
Aug-2023	<u>Social system groups.</u> monthly test.	<u>II mobilization and change.</u> * middle class phenomena - Rise of middle class in Maharashtra * mobility and change among the scheduled caste * test.	* Herbert Spencer - Theory of organism, Evolution, * Durkheim - Theory of suicide, social fact. * test.
Sep-2023	<u>Culture</u> <u>social exclusion</u> monthly tes.	* Women's participate in various field, <u>III Challenges to Indian society</u> * Religious fundamentalism, communalism, problems of Nationalism, * test.	(iii) The classical Tradition * Karl Marx - Historical materialism, class struggle * test.
Oct-2023	<u>social inequality.</u> <u>semester Exam.</u>	* Cast atrocities against Women <u>semester Exam.</u>	* Max Weber - Theory of Authority, Analysis of spirit of capitalism, and Protestant Ethics <u>semester Exam.</u>

Matsyodari Shikshan Sanstha's
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Month	Class: BA-4 Paper No: III Semester: II	Class: BASU Paper No: VII Semester: IV	Class: BA-4 Paper No: VIII Semester: VI
Dec-2023	Basic concepts in Sociology. ① Society. * Definition and meaning of society, * Types of society, * Test.	Indian society - Issues and concerns. ① Introduction. * meaning of social problems. * Approaches to study of social problems (conflict, symbolic) * Test	Sociological Intro Theories. ① functionalism. * Talcott Parsons - Theory of social action, pre-requisites of social system - * Test.
Jan-2024	* community - meaning and types. ② Social process. * meaning. * Integrative social process - co-operation, accom - Assi * Test.	* Theory of Deviance. ② Indian Social Problems. * crime - meaning, Nature, causes, Types of effects of measures. * Juvenile Delinquency - meaning, Nature, causes. * Test.	* Robert Merton - Role set, Reference group ② conflict Theory. * Lewis Cozer - functions of social conflict, violence Test.
Feb-2024	* Disintegration social process - Competition and conflict. ③ Social Change * meaning, Nature Test	* child labour - Nature, causes, Effects and measures. ③ Current challenges. * Problem of unemployment * Problem of Alcoholism and Drug Abuse. Test.	* Ralf Dahrendorf - class conflict in Industrial society. Power and Authority. ③ Symbolic Interaction * Ch. Colley - Looking Glass Self Primary group - Test.
Mar-2024	* Factors Responsible to social changes Ideology, Demography. Semester Exam.	* Problems of communalism and terrorism. Semester Exam.	* E. H. Mead - self - self consciousness, functions of self. Semester Exam.

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 Dr S. C. Gadhekar
 Secretary

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

Department--CHEMISTRYp

Name of Teacher: Dr.S.N.Sinkar



Month	Class: B.Sc. F. Y. Paper No: CHE-111 Semester: I	Class: B.Sc. S. Y. Paper No: CHE-311 Semester: III	Class: B.Sc. T. Y. Paper No: P-XIII Semester: V
Jun-2023	<u>UNIT I- Atomic structure and periodicity of element</u> Bohr theory and its limitation idea of de Broglie matters waves Heisenberg uncertainty principle quantum number and its types significance of quantum number shape of s and p atomic orbital nodal planes rules for filling electrons rules in various orbitals	<u>UNIT I- Aldehyde and ketone:</u> introduction , IUPAC nomenclature , Preparation : from acid chlorides and nitriles. Reactions of aldehyde and ketones with HCN, ROH, NaHSO ₃ , NH-G derivatives. Iodoform test, Aldol Condensation, Cannizzaro's reaction, Wittig reaction, Benzoin Condensation, Clemenson reduction, Wolff-Kishner reduction and Meerwein-Ponndorf Verley reduction.	<u>UNIT I- Elementary Quantum Mechanics</u> 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.
Jul-2023	i) Aufbau's principle ii) Hund's rule of maximum multiplicity iii) Pauli's exclusion principle electronic configuration of element from hydrogen to zinc stability of d and f orbitals definition and trends in periodic table of the following properties i) atomic radii and ionic radii ii) ionization energy iii) electron affinity iv) electronegativity Factors affecting ionization energy Pauling's and Mulliken's scale of electronegativity <u>UNIT II- Chemical bonding and molecular structure (I) ionic bonding</u> Definition and general characteristics of ionic bonding factors affecting ionic bonding formation lattice energy solution energy and their importance Born-Landé equation to calculate lattice energy Born-Haber cycle for	<u>UNIT II- Carboxylic acids and their derivatives</u> Carboxylic acids (aliphatic and aromatic): Introduction and IUPAC nomenclature, factors affecting acidity of carboxylic acids. Preparation: Acid chlorides, Anhydrides, Esters and Amides from acids and their inter conversion . Reaction: Comparative study of nucleophilicity of acyl derivative. Reformatsky reaction, Perkin Condensation. <u>UNIT III- Amines and Diazonium Salts:</u> Amines(aliphatic and aromatic): Introduction and IUPAC nomenclature, Preparation from alkyl halides, Gabriel's Phthalimide synthesis, Hofmann Bromamide reaction. Reactions: Hofmann vs. Saytzeff elimination . Nitration, bromination and sulphonation of aniline. Preparation of p-bromoaniline from aniline,	<u>UNIT II- Spectroscopy</u> 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.



	NaCl and its application Fajans rule application of Fajans rule for polarizing power and Polaris ability Ionic character in covalent compound Dipole moment and percentage ionic character	Diazotization reaction, Sandmeyer reaction	
Aug-2023	UNIT III- Chemical bonding and molecular structure (II) covalent bonding Concept of hybridization different type of hybridization and geometry of following molecules on the basis of valence bond theory Linear geometry BeCl_2 SP hybridization Planar trigonal geometry BF_3 SP^2 hybridization Tetrahedral geometry CH_4 SP^3 hybridization Trigonal by pyramidal geometry PCl_5 sp^3d hybridization	UNIT IV- Heteronuclear Aromatic Compounds : Introduction , Classification of heteronuclear compounds , Structures of pyrrole, thiophene, furan and pyridine and their aromaticity . Basicity of pyrrole, furan, thiophene, pyridine and pyrrolidine. Preparation and electrophilic substitution of furan, pyrrole, thiophene and pyridine. Chichibabin reaction.	UNIT 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.
Sep -2023	Octahedral geometry SF_6 sp^3d^2 hybridization Pentagonal by pyramidal geometry I have 7 SP^3d^3 hybridization VSEPR theory assumption of theory explain the geometry of following irregular molecules on the basis of VSEPR theory Linear geometry XeF_2 sp^3d hybridization T-shaped geometry ClF_3 SP^3D hybridization Irregular tetrahedral geometry SF_4 sp^3d^3 Hybridization Square pyramidal geometry IF_5 sp^3d^2 hybridization	UNIT V- Stereochemistry of Cyclohexane : Bayer's strain theory, structure of cyclohexane, axial and equatorial H atoms, heat of combustion of cycloalkanes, conformations and stabilities of methyl cyclohexane, t-butyl cyclohexane, 1,1 dimethyl cyclohexane, 1,2 dimethyl cyclohexane, 1,3 dimethyl, 1,4 dimethyl cyclohexane.	UNIT 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.
Oct-2023	UNIT IV- Chemical bonding and molecular structure (III) molecular orbital theory (MOT) Rules for the lcao method formation of bonding antibonding and nonbonding	UNIT VI- Active Methylene Compounds Defination, Preparation of Ethyl acetoacetate and synthesis uses of acetoacetate. Preparation of diethyl malonate and synthetic uses of diethyl malonate	UNIT 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)

molecular orbital, types of overlap s-s, s-p and p-p. combination of atomic orbital energy level sequence for molecular orbital when $n = 1$ and 2 molecular orbital diagram for H_2^{+} nuclear diatomic molecule of first and second period

Molecular orbital diagram for heteroatomic diatomic molecule bond order and its significance

Micro emulsion. Synthesis using micro-organisms and plant extract.



Matsyodari Shikshan Sanstha's
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Annual Teaching Plan (Year: 2023-2024)



Month	Class: B.Sc. F. Y.	Class: B.Sc. S. Y.	Class: B.Sc. T. Y.
	Paper No: CHE-211	Paper No: CHE-411	Paper No: P-XVI
	Semester: II	Semester: IV	Semester: VI
Dec- 2023	<u>UNIT I- Chemical energetics</u> A) Thermodynamics Basic concept of thermodynamics system surrounding boundary type of system state and path function thermodynamic processes intensive and extensive properties first law of thermodynamics spontaneous and non spontaneous processes statement of second law of thermodynamics cannot cycle and its efficiency entropy physical significance of entropy first law of thermodynamics calculation of absolute entropy of substance B) Thermochemistry Concept of standard state standard enthalpy of formation. Hess's law of constant heat summation and its application bond dissociation energy and its calculation from thermodynamic ideas temperature dependence of enthalpy kirchhoffs equation	<u>UNIT I- Coordination Compounds</u> Double salt, coordination compound, coordinate bond, ligand, types of ligands, chelate, central metal ion, charge on complex ion, calculation of oxidation state of central metal ion, metal ligand ratio ; werner's theory, Effective atomic number, equilibrium constant. Chelate effect, IUPAC nomenclature. Cationic and anionic complexes, Isomerism in coordination compounds; polymerization, isomerism, hydrates isomerism, linkage isomerism, coordination isomerism, coordination position isomerism, geometric isomerism, optical isomerism.	<u>UNIT I- Metal-Ligand Bonding in</u> <u>Transition Metal Complexes</u> 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

Jan-2024	UNIT II- Chemical equilibrium free energy change in chemical reaction thermodynamic derivation of the law of chemical equilibrium relation between K_p and K_c for reaction involving ideal gases Le Chatelier's principle	UNIT II- Valence Bond Theory of Coordination Compounds Aspects and assumptions of VBT, applications of VBT. Hybridization, structure and bonding in inner orbital complexes $[\text{Ag}(\text{NH}_3)_2]^+$, $[\text{Ni}(\text{CN})_4]^{2-}$, $[\text{Cr}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Fe}(\text{CN})_6]^{3-}$ and outer orbital complex $[\text{Cr}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Cu}(\text{NH}_3)_6]^{2+}$, $[\text{FeF}_6]^{3-}$. Limitations of VBT. UNIT IV- Oxidation and Reduction Introduction, oxidation number, Galvanic cells, Single electrode potentials, Electrochemical series, Nernst equation, Application of Electrochemical series, Source of electric energy in a Galvanic cell, Hydrogen over voltage, Oxygen over voltage, Redox stability in water, Oxidation by atmospheric oxygen, Latimer diagram, Frost Diagram, Pourbaix diagram	UNIT II- Electronic Spectra of Transition Metal Complexes Types of Electronic Transitions Selection rules for d-d transitions Spectro-chemical series Orgel Energy level diagram for d_1, d_5 and d_9 Electronic Spectrum of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ complex ion.
Feb-2024	UNIT III- Gaseous state Postulate of kinetic theory of gases and derivation of the Kinetic gas equation in deduction of gas law Boyle's law Charles law Graham's law of diffusion Avogadro's hypothesis derivation of real gases from ideal behaviour van der Waals equation of state for ideal gases critical phenomena P-V isothermal of real gases	UNIT III- Crystal Field Theory Shapes of d-orbitals, Assumption of Crystal Field Theory (CFT), splitting of d orbitals Oh ligand field, effect of weak and strong ligand fields, spectrochemical series, crystal splitting energy, Crystal field stabilization energy and factors affecting it, tetragonal distortion in $\text{Cu}(\text{II})$ complexes. Crystal field splitting in octahedral, tetrahedral and square planar complexes, application of CFT.	UNIT III- 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.
Mar-2024	UNIT IV- Chemical kinetics Rate of reaction definition and units of rate constant factors affecting rate of reaction nature of reactants concentration pressure temperature and catalyst order and molecularity of reaction zero order reaction first order reaction characteristics of first order reaction examples in molecular reaction example second order reaction derivation of rate constant for equal and unequal concentration of reaction characteristics of second order reaction numerical on first order and second order reaction concept of energy of activation	UNIT V- Volumetric analysis Introduction, Terminology, Basic requirement of titration reaction, Standard solution, Primary Standards, Expressing concentration of Standard solution, Volumetric titration co-relation, P-fraction, Acid-base titration, Theory of acid-base indicators, Mathematical treatment, Redox titration, Complexometric titration, polydentate titrants for complexometric titration, EDTA titration, Indicators for EDTA titration, Titration curves, EDTA titration methods, Cautions of volumetric titrimetry, Correction for unavoidable errors. UNIT VI- The Chemistry of Elements in Medicine Introduction, Chelation Therapy, Cancer treatment, Anti-arthritis drugs, Imaging agents.	UNIT IV- 4. Bioinorganic Chemistry Essential and trace elements in biological processes Metalloporphyrins with special reference to hemoglobin and myoglobin Biological role of alkali (Na^+, K^+) and alkaline earth metal ions (Mg^{2+}, Ca^{2+}). Nitrogen fixation UNIT V- Chromatography Definition and classification of chromatography Paper and Thin Layer Chromatography Method of Development (Ascending, Descending Chromatography) Locating Technique (UV-light / Chemicals)



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R f value
Comparison between paper and TLC
Applications.



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna

Annual Teaching Plan (Year: 2023-2024)

Department Chemistry

Name of Teacher: Dr.S.S. Katkar



Month	Class: B.Sc. F. Y. Paper No:CHE-112 Semester: I	Class: B.Sc. S. Y. Paper No: CHE-312 Semester: III	Class: B.Sc. T. Y. Paper No: P-XIV Semester: V
Jun-2023	<u>UNIT I- Fundamentals of organic reaction mechanism</u> Electronic displacement inductive effect, electromeric effect, resonance and hyperconjugation, cleavage of bonds, homolysis and heterolysis, structure, shape and reactivity of organic molecules, nucleophiles and electrophiles, reactive intermediates, formation, structure, reactivity and stability of carbocations, Carbonion and free radicals, strength of organic acids and bases, comparative study with emphasis on factor affecting pK value.	<u>UNIT I-Phase Equilibrium</u> Introduction, definition of phase, components and degree of freedom of a system, stability of phase, criteria of phase Equilibrium. Gibbs phase rule and its Thermodynamics Derivation, phase diagram of one component system-water, carbon dioxide emissions and Sulphur system, Numerical.	<u>UNIT I- Spectroscopy</u> Nuclear magnetic resonance (NMR) spectroscopy. Proton magnetic resonance (1H 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 Woodward-Fischer rule)
Jul-2023	<u>UNIT II- Isomerism and stereochemistry</u> Concept of isomerism, types, structural, chain position, functional groups, representation of organic molecule, zigzag structure, projection formulae, sawhorse, Newman, Fischer and dotted wedge, inter conversion of wedge formula, Newman sawhorse and Fischer representation, concept of chirality up to carbon atom, element of symmetry, configuration, geometrical and optical isomerism, inomerism, diastereomerism and meso compound, threo and erythro, d and l isomerism, nomenclature, CIP rule, R/S and E/Z nomenclature.	<u>UNIT II-Quantum Chemistry</u> Introduction, de Broglie hypothesis, the Heisenberg's uncertainty principle, quantization of energy, operators, Schrodinger wave equation, well behaved function, Particle in a one, two and three dimensional box (no Derivation), Physical interpretation of the ψ and ψ^2 , sketching of wave function and probability densities for 1D box, degeneracy, application to conjugated system, zero-point energy and quantum tunnelling, Numerical. <u>UNIT III- Surface Chemistry</u> Introduction to surface chemistry- some basic terms related to surface chemistry, Adsorption, adsorption material, factors affecting adsorption, characteristics of adsorption, types of adsorption, classification of adsorption, Langmuir adsorption.	<u>UNIT II-Organometallic Compounds</u> Organomagnesium - compounds: Alkyl Magnesium halides-ethyl magnesium bromide, formation, structure and chemical reactions. Organozinc compounds, dialkyl zinc, formation and chemical reactions, organolithium compound- n-butyllithium, formation and chemical reactions.



		isotherm Freundlich's adsorption isotherm B theory application of adsorption, Numerical	
Aug-2023	UNIT III- Benzene and its reaction Aromaticity benzenoids and hakele rule structure of benzene Kekule structure stability of benzene reaction of benzene aromatic character hakele rule nomenclature of benzene derivative sulphonation halogenation Friedel craft reaction of benzene	UNIT IV- Photochemistry Introduction, difference between thermal and photochemical processes, Laws of photochemistry: i) Grothus-Draper law ii) Stark-Einstein law, quantum yield, Reason for high and low quantum yield factors affecting quantum yield, experimental method for the determination of quantum yield types of photochemical reactions- photosynthesis, photolysis, photocatalysis, photosensitization, Jablonski diagram depicting various processes occurring in the excited state. Qualitative description of fluorescence and phosphorescence, Chemiluminescence, Numericals	UNIT III-Organic Synthesis via Enolates. Definition, Active methylene compounds, Preparation of Acetoacetic 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, ketoenol tautomerism. Preparation of diethyl malonate, properties and reactions involved in alkylation, formation of mono, di and unsaturated carboxylic acids, and also synthesis of amino acid and barbituric acids from diethyl malonate.
Sep -2023	UNIT IV- Alkyl and Aryl halide Alkyl halides type of nucleophilic substitution SN1 SN2 and SNi reaction preparation from alkene and alcohol Reactions :- nitrites hydrolysis and nitro formation nitrile and isonitrile formation Williamson ether synthesis elimination versus substitution Aryl halide:- preparation chloro bromo and iodine case from phenol Sandmeyer or and Gettman reaction reactions chlorobenzene aromatic nucleophilic substitution replacement by OS group and effect of nitro substituent benzene mechanism $\text{kmh}_2 / \text{NH}_3$ and any $\text{NaNH}_2 / \text{NH}_3$ reactivity and relative strength of sea halogen bond in alkyl Allen benzene vinyl and aryl halide	UNIT V- Conductometry Introduction, Electrolytic conductance, Resistance, conductance, Ohm's law, cell constant, specific and equivalent conductance, molar conductance, variation of equivalent and specific conductance with concentration, Kohlrausch's law and its application, conductivity cell, conductivity meter, Wheatstone bridge, determination of cell constant, conductometric titration (strong acid- strong base, strong acid- weak base, weak acid – strong base) and Numericals.	UNIT 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 animal fats and oils and definition of saponification value, iodine value, and acid value. Detergents: Definition, Introduction and preparation of sodium alkyl sulphate, alkyl benzene sulphate, and amide sulphate, (one example each), Cleansing action of detergent.

Oct-2023

UNIT V- Alcohol phenol

Alcohol preparation preparation of primary secondary and tertiary alcohol using grignard reagent Ester hydrolysis reduction of aldehyde ketone carboxylic acid and ester Reactions with sodium HX history esterification, oxidation with PCC alk.KMnO₄ acidic dichromate concentrate HNO₃ opener oxidation dioles oxidation of dioles Pinnacle pinocolon rearrangement Phenols:- preparation cumene hydroxide method from diazonium salt reaction with mechanism electrophilic substitution nitration halogenation and sulphonation reaction Reimer-tiemann reaction getterman coach reaction Schotten baumann reaction Houben, Hoesch Condensation Schotten baumann reaction.

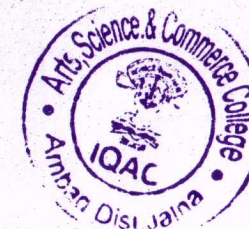
UNIT VI- Colorimetry

Introduction, interaction of electromagnetic radiation with matter, essential terms, radiant power, transmittance, absorption, molar, Lamberts law, Beers law, Lamberts-Beers law, molar absorptivity, Derivation from Beers law, Colorimeter: principle, construction and components, working. Application -unknown conc. By calibration curve method, determination of unknown concentration of Fe(III) by thiocyanate method, Numericals.



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

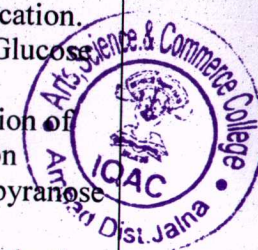


Name of Teacher: Mr.R.B. Bibe

Department: Chemistry

Month	Class: B.Sc. F. Y.	Class: B.Sc. S. Y.	Class: B.Sc. T. Y.
	Paper No: CHE-212	Paper No: CHE-412	Paper No: P-XVII
	Semester: II	Semester: IV	Semester: VI
Dec- 2023	<u>UNIT I- Principle of chromatography</u> introduction basic principle of chromatography Basic terms classification of chromatography Paper chromatography principle types of paper chromatography treatment of sample loading choice of solvent development of ascending descending circular chromatography location of spot determination of RF value application advantage and disadvantage Thin layer chromatography principal solvent system stationery phase preparation of TLC plate detecting reagent methodology sample loading development detection of spot RF value application advantage and disadvantage comparison of paper chromatography and TLC	<u>UNIT I- Infrared Spectroscopy</u> Introduction, Simple harmonic oscillator, moles of vibration, force constant, Vibrational spectrum of a diatomic molecules vibrational energy expression, allowed vibrational energies, zero point energy, selection rule, Vibration-rotation spectra, Born Oppenheimer approximations, Energy expression for vibrational rotor, interpreting IR spectra functional group and fingerprint region. Infrared spectroscopy in organic molecules, IR spectra of alkane, alkene and simple alcohol, aldehyde ketone, carboxylic acid and their derivatives and Numericals.	<u>UNIT I- Heterocyclic Compounds</u> Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. Condensed Heterocycles: Introduction, Preparation of Quinoline (Skraups Synthesis), Isoquinoline (Bischler - Napirlaski) and Indole (Fischer indole Synthesis).

Jan-2024	<u>UNIT II- Study Of drugs</u> Introduction and classification of drugs properties of ideal drug synthesis and properties of aspirin paracetamol Ibuprofen and chloromycetin <u>UNIT V- Analysis of fertilizer</u> Introduction types of fertilizer necessity and requirement of good fertilizer sampling and sample preparation analysis of nitrogen by Kjeldahls method analysis of phosphorus by posphomolybdate method analysis of potassium by sodium Tetraphenyl borate method	<u>UNIT II- Raman spectroscopy</u> Introduction, classical and Quantum theory of Raman effect, Raleigh, stokes and anti-stokes lines, pure rotational Raman spectra of linear diatomic molecules. <u>UNIT V- Cosmetics</u> A general study including chemical composition preparation and use of the following:- hair dye, hair spray, suntan Loshion, face powder, lipstick talcum , nail enamels creams, cold, vanishing and shaving creams, eye makeup, mascara eyeshadow, eyeliner, eyebrow pencil anti persperant perfumes	<u>UNIT II- Carbohydrates</u> Defination, Introduction and Classification. Monsaccharides-Interconversion of Glucose and Fructose, chain lengthening, chain shortening of aldoses. Conversion of Glucose in to mannose. Determination of openchain structure of glucose & pyranose ring structure of glucose . Mechanism of Mutarotation and Introduction to disaccharides (maltose, sucrose and lactose) and Polysaccharides (Starch and cellulose) without involving structure determination.
Feb-2024	<u>UNIT III- Study of glass</u> introduction physical properties of glass chemical properties of glass characteristics of glass raw material used in the manufacturer of glass process of manufacturer of glass varieties of glass	<u>UNIT III- Dyes and Pigments</u> Dyes:- Introduction, qualities of good dye, Color constituent (chromophore and auxochrome) classification of dyes according to their application, Synthesis and use of following dyes: Nitroso dye- martius yellow, Azo dyes- Methyl orange and aniline yellow, Triphenylmethane dye-cryastal violet, phthalein dye-Phenolphthelein, xanthene fluorescein, Anthraquinone Alizarin and indigo dyes-indigo. Pigments: Introduction, classification and general properties of pigments. Inorganic pigments I)zinc oxide pigment (fundamentals and properties, raw materials, direct processes, precipitation procesPrecipitation ii)iron oxide pigment (fundamental and properties, production of iron oxide pigment by precipitation process.	<u>UNIT III-Synthetic Polymers.</u> Introduction, Classification based on nature of synthesis (without mechanism) with examples. (Addition and condensation polymers). Properties, uses and synthesis of polyvinyl chloride, polyvinyl acetate, polystyrene, polyacrylonitrile, Nylon 6, Nylon 66. Introduction to synthetic and natural rubber, properties, uses and synthesis of Buna N., Neoprene and silicon rubber.
Mar-2024	<u>UNIT IV- Principle and application of ultraviolet spectroscopy</u> introduction theory of electronics spectroscopy types of electronic transition transition probability concept of Croma 4 of the Chrome absorption and intensity shift absorption band conjugated dyings old word fisher rules for calculating	<u>UNIT IV- Polymerization</u> Classification of polymerization process, mechanism of step , radical chain growth, ionic chain (both cationic and anionic) and coordination polymerization. polymerization techniques bulk, solution, suspension, emulsion and interfacial condensation Molecular weight of polymers, Average molecular weight of polymer number	<u>UNIT IV- Synthetic Dyes and Drugs</u> Synthetic Dyes - Definition, colour and constitution (electronic concept) of dye, classification based on chemical constitution, synthesis of methyl orange, Congo red, malachite green, crystal violet, Alizarin and indigo dyes. Synthetic Drugs - Defination, introduction, c



absorption maximum in dienes Alpha bita unsaturated carbonyl compound application of UV spectroscope	average molecular weight, weight average molecular weight, number average molecular weight by end group analysis, viscosity average molecular weight by viscometric method, molecular weight distribution and its significance, Poly dispersity index.	lassification of drugs. Properties of ideal drug. Synthesis of chloromycetien,paracetamol,phenacetien, sulphaguainidine.
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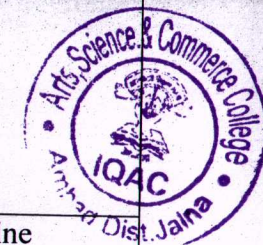
Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2023-2024)

Name of Teacher: Mrs. P.B. Gorde

Department----Chemistry- (Practical)-----

Month	Class: B.Sc. S.Y. Paper No: CHE-121 Semester: I	Class: Paper No: CHE-321 Semester: III	Class: Paper No: P-XV Semester: V
Jun-2023	Inorganic Chemistry Semi micro qualitative analysis of inorganic salt mixture containing two acidic radical and two basic radical of same or different group. Analysis of basic radical to be done by using spot test reagent. Following radical to be given carbonate, nitrile, sulphate, sulphide, chloride, bromide, Iodide, nitrate and sulphate silver(I) copper(II) Bismat(III) cadmium(II) tin(II) arsenic(III) antimony(III) iron(III) chromium(III) aluminium(III) nickel(II) Cobalt(II) manganese(II) zinc(II) calcium(II) strontium(II) barium(II) magnesium(II)	Chemical Kinetics: 1. To Study the Acid catalyzed hydrolysis of an ester (methyl acetate) and determine the rate constant(k). (frist order reaction) 2. To study the kinetics of saponification reaction between sodium hydroxide and ethyl acetate. 3. To compare the relative strength of HCl and H2SO4 or HNO3 by studying the kinetics of hydrolysis of methyl acetate.	Separation and Identification of both components i) Benzoic Acid + β -naphthol ii) Salicylic Acid + P- nitro aniline iii) β -naphthol + Acetanilide
Jul-2023	volumetric analysis 1. estimation of sodium carbonate and sodium hydrogen carbonate present in a mixture 2. Estimation of oxalic acid by titrating it with KMnO4	4. To determine energy of activation of the reaction between K2S2O8 and KI with unequal initial conc. 5. To determine the order of the reaction w.r.to K2S2O8 by fractional life method following the kinetics of per sulphate –iodide reaction.	iv) m-nitroaniline + Naphthalene v) α -naphthol + O-nitroaniline vi) Cinnamic Acid + Naphthalene vii) Salicylic Acid + Naphthalene viii) β -naphthol + m-dinitrobenzene

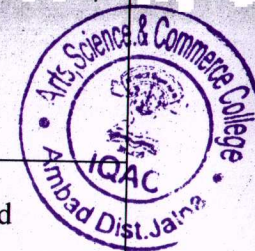


	in Mohr's salt by titrating with KMnO_4 - Estimation of Fe(II) iron by titrating it with $\text{K}_2\text{Cr}_2\text{O}_7$ using internal indicator - Estimation of copper(II) ion iodometrically using $\text{Na}_2\text{S}_2\text{O}_3$ A)	To determine equivalence point of neutralization of acetic acid by pH-metric titration with NaOH.	
Aug-2023	Organic chemistry Organic qualitative analysis detection of physical constant, types, functional group, element and confirmatory test - Acid : oxalic acid, benzoic acid, cinnamic acid - Phenol: Beta-naphthol, Resorcinol - Base: aniline, para-nitro aniline - Neutral: acetone, acetanilide, chloroform, meta-nitro benzene, thiourea, bromobenzene	Conductometry: - To determine the cell constant of the given cell using 0.01 M KCl solution and determine dissociation constant of a given monobasic weak acid. - To investigate the conductometric titration of strong acid against strong base. - To investigate the conductometric titration of weak acid against strong base	- Cinnamic Acid + P- nitro aniline - Salicylic Acid + β-naphthol - Inorganic Qualitative Analysis (Semi-Micro Analysis) (Atleast five mixtures) - Separation of calcium and Barium and estimation of Ca-volumetrically .
Sep -2023	Organic Preparation - Preparation of acetanilide.(acetalization) - Preparation of benzanalid4e. (benzoylation) - Preparation of m-di-nitro benzene. (nitration) - Preparation of tri-bromoaniline from aniline bromination - Preparation of benzoic acid from benzamide. (hydrolysis) - Preparation of Phynylazo-α-beta-Napthol Dye.(Diazotisation)	Colorimetry ; - Prepare standard solutions KMnO_4 / CuSO_4, record their absorbance and verify Beer's Law and determine unknown conc. - Prepare solution of Fe (III) and SCN^- of in different molar proportion, record their absorbance and calculate equilibrium constant of $[\text{Fe}(\text{SCN})]2^+$ complex. - Prepare solution of Fe(III)/Cu(II) and salicylic acid in different molar proportion and determine metal ligand ratio in Fe(III) or Cu(II)-Salicylic acid complex.	- Separation of Cu and Ni from binary mixture solution and estimation of Cu-volumetrically . - Estimation of oxalic acid and H_2SO_4 in a given mixture - Estimation of Fe by potassium dichromate using diphenyl ammine indicator. - Estimation of available chlorine in the given sample of bleaching powder.
Oct-2023		Potentiometry: - Potentiometric titration of strong acid vs strong base - Potentiometric titration of weak acid vs. strong base. - Potentiometric titration of potassium dichromatic vs. Mohr's salt.	- Separation of calcium and Barium and estimation of Ba-gravimetrically. - Separation of Cu and Ni from binary mixture solution and estimation of Ni-gravimetrically

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)



Month	Class: B.Sc. S.Y.	Class: B.Sc. S.Y.	Class:
	Paper No: CHE-221	Paper No: CHE-421	Paper No: P-XVIII
	Semester: II	Semester: IV	Semester: VI
Dec- 2023	Physical Chemistry 1. Determination of heat capacity of calorimeter for different volumes 2. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide 3. Determination of enthalpy of ionization of acetic acid 4. Determination of integral enthalpy of solution of salt $\text{CaNO}_3 \cdot \text{NH}_4\text{Cl}$ 5. Definition of enthalpy of hydration of copper sulphate	Chromatography: 1. Separation of binary mixture of cations by column chromatography by ion exchange resins/ cellulose of (Co+Al) mixture, separation of cations must be confirmed by qualitative test. 2. Separation of binary mixture of cations by column chromatography by ion exchange resins/ cellulose of (Co+Mg) mixture, separation of cations must be confirmed by qualitative test. 3. Separation of binary mixture of cations by column chromatography by ion exchange resins/ cellulose of (Zn+ Mg) mixture, separation of cations must be confirmed by qualitative test. 4. Separation and Identification of metal ions Ni and Cr by Paper Chromatography.	Organic Estimation i) Estimation of Carbonyl group by hydrazone formation method ii) Estimation of vitamin C in commercial soft drink / Glucon D iii) Estimation of ascorbic acid iv) Estimation of Saponification value of oil
Jan-2024	6. Study of solubility of benzoic acid in water and determination of ΔH 7. determination of equivalent weight of MG by Eudiometer. 8. To determine viscosity of given liquid water ethanol by viscometer 9. To determine surface tension 10. of given liquid by Staganometer 10. Chemical kinetics to study	Synthesis of Coordination compounds 5. Synthesis of sodium cobaltinitrite from Co (II) salt and NaNO_2 salt. 6. Synthesis of potassium Tris (oxalate) aluminium(III) using Al metal powder (Scrap aluminium). 7. Synthesis of Tris (acetylacetonate)iron(III) by green chemistry method by reaction between Fe(OH)_3 and acac. 8. Synthesis of Tris(ethylenediamine)nickel(II) from Ni(II) salt, ethyldiamine and sodium thiosulfate. 9. Synthesis of $\text{K}[\text{Cr}(\text{C}_2\text{O}_4)_2 \cdot (\text{H}_2\text{O})_2]$ potassium dioxalatodiaquachromate(III).	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. iv) To prepare picrate of Naphthalene. v) To prepare picrate of Anthracene. Vi) preparation of p – bromo acetanilide from acetanilide



	on the hydrolysis of an ester	$\text{Cu}(\text{NH}_3)_4[\text{SO}_4 \cdot \text{H}_2\text{O}]$	
Feb-2024	Applied chemistry Separation of mixture by chromatography A) Measure the R_f value in each case (combination of two compound to be given) 1. Identify and separate the components of a given mixture of two amino acid (glycine, aspartic acid, glutamic acid, tyrosine or any other amino acid by paper chromatography.	Gravimetric estimation 11. Estimation of nickel (II) using Dimethylglyoxime (DMG). 12. Estimation of copper as CuSCN 13. Estimation of iron as Fe_2O_3 by precipitating iron as $\text{Fe}(\text{OH})_3$. 14. Estimation of Al (III) by precipitating with oxine and weighing as $\text{Al}(\text{oxine})_3$	Instrumental 1. Determine the Strength of HCl and CH_3COOH in a given mixture by titrating against strong base conductometrically. 2. Determine the strength of oxalic acid conductometrically using sodium hydroxide solution. 3. To determine empirical formula of ferric - 5-sulphosalicylate 4. Determine the amount of Fe^{2+} in the given solution potentiometrically 5. To determine the refractive indices of series of salt solutions and to find out concentration of the salt in given unknown solution.
Mar-2024	2. Identify and separate the cation by paper chromatography technique from the following mixture a) $\text{Ni}^{+2} + \text{Cu}^{+2}$ B) $\text{Ni}^{+2} + \text{Co}^{+2}$	15. Estimation of Ba as Barium Chromate	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. 3. To determine the standard free energy change ΔG_0 and equilibrium constant for the reaction. $\text{Cu} + 2 \text{Ag}^+ = \text{Cu}^{+2} + 2 \text{Ag}$

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: V

Month	Paper-XVII (17) [theory]	Paper-XVIII (18) [theory]	Paper-XIX (19) [practical]	Paper-XX (20) [practical]
Jun-2023	➤ Basic classical mechanics ➤ Origin of quantum theory			
Jul-2023	> Basic classical mechanics > quantum theory > De Broglie wave	> Electrostatics >	➤ Thermal conductive of bad conductor ➤ Steafns constant using thermocouple	> filed along the circular coil > to find the mutual conductance of two coil.
Aug-2023	➤ De Broglie wave ➤ Test	> Electrostatics > time varying field	➤ Study of absorption spectra of iodine. ➤ Temperature of sodium flame	➤ Bridge rectifier ➤ BH curve using magnetometer
Sep-2023	➤ Schrodinger equation ➤ test	➤ Electromagnetic wave ➤ Test	➤ Y by Koeings method ➤ Surface tension by ripples method	➤ Surface tension by ripples method ➤ Finding BH and BV using earth inductor.
Oct-2023	➤ Schrodinger equation ➤ test	➤ Interaction of em wave with matter ➤ test	➤ temperature coefficient of resistance of semiconductor. ➤	➤ determination of AC mains frequency.



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

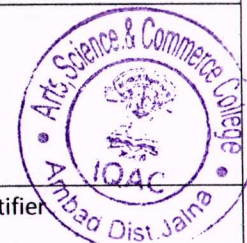
Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: VI

Month	Paper-XXI (21) [theory]	Paper-XXII (22) [theory]	Paper-XXIII (23) [practical]	Paper-XXIV (24) [practical]
Dec-2023	Exam	Exam	Exam	Exam
Jan-2024	➤ Atomic physics ➤ Vector atom model	➤ Introduction to fiber optics ➤ Introduction to fiber optics	➤ Cauchy constant ➤ Lambda by Diffraction grating	➤ Full wave rectifier ➤ E by Millikan's oil method
Feb-2024	➤ Molecular physics ➤ Test.	➤ Fiber fabrication ➤ Optical fiber communication	➤ Hartsman dispersion formula ➤ Calibration of bridge by using Cray Foster bridge.	➤ RI of optical fiber
Mar-2024	➤ Molecular spectra ➤ Raman spectroscopy	➤ Optical fiber communication ➤ Transmission characteristics of optical fiber	➤ To measure the numerical aperture of optical fiber.	➤ Maxwell bridge ➤ Phase difference between current and voltage in RC circuit using CRO.
Mar-2024	➤ Raman spectroscopy	➤ Transmission characteristics of optical fiber	➤ Comparison of capacitor using D' Saughy method	➤ Regulated power supply using Zener diode.
	Exam	Exam	Exam	Exam



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: III

Month	Paper-IX (9) [theory]	Paper-X (10) [theory]	Paper-XI(11) [practical]	Paper-XII (12) [practical]
Jun-2023	➤ Basic concept in statistical physics ➤ Thermodynamics probability			
Jul-2023	➤ Classical statistics ➤ Quantum statistics-I	➤ Photoelectric effect.	➤ RP of telescope. ➤ Thermal conductivity probe method.	➤ Owens bridge ➤ Study of CRO.
Aug-2023	➤ Quantum statistics-II	➤ Photoelectric effect. ➤ X-ray	➤ Id curve by spectrometer. ➤ Wavelength by newtons ring. ➤ Determination of B_h and B_v.	➤ Viscosity of liquid. ➤ Stefan's constant.
Sep-2023	➤ Statistical mechanics. ➤ Maxwell boltzman statics	➤ Basic principle of laser. ➤ Types of laser.	➤ IV characteristics of solar cell. ➤ High resistance leakage method.	➤ Divergence of laser beam. ➤ Carry foster bridge.
Oct-2023	➤ Maxwell boltzman statics	➤ Nuclear forces and model.	➤ PI filter	➤ Diffraction due to cylindrical obstacle.

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

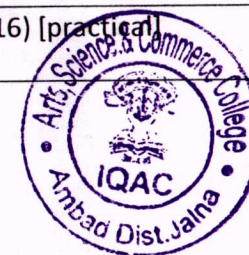
Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: IV

Month	Paper-XIII (13) [theory]	Paper-XIV (14) [theory]	Paper-XV (15) [practical]	Paper-XVI (16) [practical]
Dec-2023	Exam	exam	exam	exam
Jan-2024	➤ Semiconductor devices ➤ CE, CB configuration .	➤ Crystal physics ➤ Test.	➤ Coefficient of viscosity. ➤ e/m Thomson method.	➤ Searle's viscometer ➤ Find sum and series by "C"
Feb-2024	➤ Digital electronics ➤ Test.	➤ Bonding in solid ➤ Thermal properties of solid ➤	➤ Thermocouple experiment. ➤ Gaussiun curve.	➤ Rydberge constant. ➤ Study of laser.
Mar-2024	➤ Gates ➤ Test.	➤ Free electron theory of metal ➤ Free electron in crystals.	➤ Convert given no. in to binary and vice versa.	➤ Mutual inductance. ➤ Carry foster bridge.
Mar-2024	➤ Diffraction. ➤ Test.	➤ Theory of relativity. ➤ Test.	➤ Sine and cosine series. ➤ Test.	➤ Owne's bridge.
	exam	exam	Exam	exam



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (F.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: I



Month	Paper-I (1) [theory]	Paper II (BIS)	Paper-III(3) [practical]
Jun-2023	➤ Mechanics ➤ gravition	➤ basic measurement ➤ voltmeter, Am meter and multimeter	
Jul-2023	➤ Gravitation ➤ elasticity	➤ use to CRO ➤ dual trace oscilloscope	➤ Keters pendulum ➤ Y by bending of beam.
Aug-2023	➤ elasticity	➤ signal and pulse generator ➤ signal and pulse generator	➤ Y by cantilever. ➤ M .I of flywheel.
Sep-2023	➤ vescosity ➤ surface tension	➤ digital multimer	➤ S.T by jeagers method. ➤ MI by annular disk
Oct-2023	➤ Surface tension	➤ voltmeter, Am meter and multimeter	➤ Bar pendulum ➤ Torsional pendulum

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (F.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: II

Month	Paper- I (5) [theory]	Paper II theory (skill)	Paper-VII(7) [practical]	
Dec-2023	Exam	➤ Basic measurement of instrument	Exam	
Jan-2024	➤ Optics and optical instrument ➤ Optics and optical instrument ➤	➤ Measurement technique ➤ Measurement technique ➤ Basic measurement of instrument ➤	➤ Study of telescope, microscope and spectrometer. ➤ Angle of minimum deviation	
Feb-2024	> optical instrument test. >	➤ Electrical devices	➤ Resolving power of telescope ➤ Resolving power of prism	
Mar-2024	➤ interference	➤ Electrical devices	➤ resolving power of grating. ➤ Specific rotation of sugar	
Mar-2024	➤ diffraction	➤ Electrical devices	➤ to determine the angle of prism	



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: V

Month	Paper-XVII (17) [theory]	Paper-XVIII (18) [theory]	Paper-XIX (19) [practical]	Paper-XX (20) [practical]
Jun-2023	> Basic classical mechanics > Origin of quantum theory			
Jul-2023	> Basic classical mechanics > quantum theory > De Broglie wave	> Crystal structure > test	> Energy band gap	> voltage regulation by zeener
Aug-2023	> De Broglie wave > Test	> crystal structure > Bonding in solid	> Edsar "A" pattern > IH curve by excels	> Study of bridge rectifier
Sep-2023	> Schrodinger equation > test	> Semiconductor devices > Test	> Surface tension by ripples method	> Study of transistor. > Study of CE
Oct-2023	> Schrodinger equation > test	> DC circuits > test	> Determination of e/m(cro)	> Rydberg constant



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

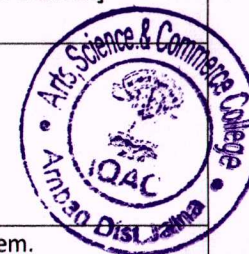
Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: VI

Month	Paper-XXI (21) [theory]	Paper-XXII (22) [theory]	Paper-XXIII (23) [practical]	Paper-XXIV (24) [practical]
Dec-2023	Exam	Exam	Exam	Exam
Jan-2024	> Atomic physics > Molecular physics	> Thermal properties of solid	> Op amp as adder > Diffraction grating	> Thevenin theorem.
Feb-2024	> Molecular physics > Test.	> Nano physics > Transistor biasing.	> Hartsman dispersion formula > Calibration of bridge by using cray foster bridge.	> Study of JFET.
Mar-2024	> Nuclear physics. > Particle accelerator	> Transistor biasing > Operational amp	> H by photocell.	> Study of hartly oscillator. > Study of absorption spectra.
Mar-2024	> Particle accelerator.	> Operational amplifier	> Constant B.G	> Study of LCR.
	Exam	Exam	Exam	Exam



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

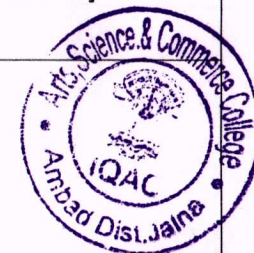
Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: III

Month	Paper-IX (9) [theory]	Paper-X (10) [theory]	Paper-XI(11) [practical]	Paper-XII (12) [practical]
Jun-2023	➤ Basic concept in statistical physics ➤ Thermodynamics probability			
Jul-2023	➤ Classical statistics ➤ Quantum statistics-I	➤ Photoelectric effect.	➤ RP of telescope. ➤ Thermal conductivity probe method.	➤ Owens bridge ➤ Study of CRO.
Aug-2023	➤ Quantum statistics-II	➤ Photoelectric effect. ➤ X-ray	➤ Id curve by spectrometer. ➤ Wavelength by newtons ring. ➤ Determination of Bh and Bv.	➤ Viscosity of liquid. ➤ Steafan's constant.
Sep-2023	➤ Statistical mechanics. ➤ Maxwell boltzman statics	➤ Basic principle of laser. ➤ Types of laser.	➤ IV charecteristics of solar cell. ➤ High resistance leakage method.	➤ Divergence of laser beam. ➤ Carry foster bridge.
Oct-2023	➤ Maxwell boltzman statics	➤ Nuclear forces and model.	➤ PI filter	➤ Diffraction due to cylindrical obstacle.



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: IV

Month	Paper-XIII (13) [theory]	Paper-XIV (14) [theory]	Paper-XV (15) [practical]	Paper-XVI (16) [practical]
Dec-2023	Exam	exam	exam	exam
Jan-2024	➤ Semiconductor devices ➤ CE, CB configuration .	➤ Crystal physics ➤ Test.	➤ Coefficient of viscosity. ➤ e/m Thomson method.	➤ Searle's viscometer ➤ Find sum and series by "C"
Feb-2024	➤ Digital electronics ➤ Test.	➤ Bonding in solid ➤ Thermal properties of solid ➤	➤ Thermocouple experiment. ➤ Gaussiun curve.	➤ Rydberge constant. ➤ Study of laser.
Mar-2024	➤ Gates ➤ Test.	➤ Free electron theory of metal ➤ Free electron in crystals.	➤ Convert given no. in to binary and vice versa.	➤ Mutual inductance. ➤ Carry foster bridge.
Mar-2024	➤ Diffraction. ➤ Test.	➤ Theory of relativity. ➤ Test.	➤ Sine and cosine series. ➤ Test.	➤ Owne's bridge.
	exam	exam	Exam	exam



Matsyodari Shikshan Sanstha's

Name of Teacher: Madan Nagre

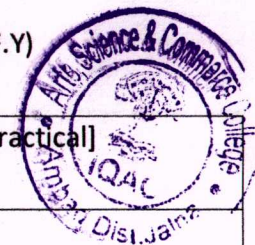
Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (F.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: I



Month	Paper-I (1) [theory]	Paper-II(2) [theory]	Paper-III(3) [practical]	Paper-IV (4) [practical]
Jun-2023				
Jul-2023	➤ Gravitation ➤ Moment of inertia.	➤ Real gases.	➤ Keters pendulum ➤ Y by bending of beam.	➤ Poiseuille's method. ➤ Lee's disc metnod.
Aug-2023	➤ Moment of inertia.	➤ Real gases ➤ Thermometry.	➤ Y by cantilever. ➤ M .I of flywheel.	➤ Thermal conductivity. ➤ Thermo emf.
Sep-2023	➤ Elasticity ➤ Kinematics of moving fluid.	➤ Thermodynamics. ➤ Black body radiation.	➤ S.T by jeagers method.	➤ J by callenders method.
Oct-2023	➤ Kinematics of moving fluid.	>black body radiation.	> y by flat spiral spring.	> Y by searles method.

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (F.Y)

Department: Physics

Annual Teaching Plan year 2023-24

Semester: II



Month	Paper- V (5) [theory]	Paper-VI (6) [theory]	Paper-VII(7) [practical]	Paper-VIII (8) [practical]
Dec-2023	Exam	exam	Exam	exam
Jan-2024	➤ Electrostatics ➤ Dielectrics.	➤ Free oscillation and damped oscillation.	➤ Study of temperature. ➤ Carry foster bridge.	➤ Velocity of sound
Feb-2024	> Electricity > test.	> Forces oscillation. > Wave motion.	> B.G for capacity. > field along circular coil.	> I-H curve
Mar-2024	➤ Magnetostatics.	➤ Wave motion ➤ Sound.	➤ Velocity of sound.	➤ Dispersion power of prism. ➤ RC constant.
Mar-2024	➤ Magnetostatics.	➤ Sound.	Comparison of capacitance.	➤ Find even odd number.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Dept. of Environmental-Science , Annual Teaching Plan (Year: 2023 -2024)



Month	Class: B.Sc.F.Y Paper: Paper-I EVS-111 Semester: I	Class: : B.Sc.F.Y Paper: Paper-II EVS-112 Semester: I	Class: B.Sc.F.Y Paper: Paper-III EVS-113 Lab course-I Semester: I PRACTICAL
July	Unit-I:- Ecosystem Dynamics: Concept of ecosystem. A biotic and biotic components, Energy in ecological system, Concept of productivity, Energy flow in ecosystem, Food chain. Food web, Ecological pyramids, Biogeochemical cycles of nitrogen, oxygen and carbon	Unit-I: Basic Concepts of Environmental Chemistry: Energy-definition, types (kinetic and potential), Forms of energy: Laws of thermodynamics (First & Second), Stoichiometry, Gibbs energy, Chemical potential, chemical equilibrium, Acid-base reactions. Solubility product, Solubility of gases in water.	Lab Course-I (Practical paper based on paper I & II) 1. To study the 'Laboratory Safety Rules'. 2. To study the cleaning methods of glass wears.
Aug	Unit-II: Ecological succession: hypothesis. Concept of habitat. Ecological niche. Guild, concept of ecotone, Edge effect. Types of ecological succession, Mechanism of succession, Concept of climax, Concept of Gaia Significance of ecological adaptation. Ecological adaptation in plant- Hydrophytes, Xerophytes, Mesophytes and Halophytes	Unit-II: Chemical Agents in Environment: Introduction, definition, Scope, Importance. Role of chemical agents in environment. Basic water chemistry, Impurities, Basic principles and sources, Cases solubility in water, Heat influencing chemical reactions, Solubility of impurities, Characteristics of sanitary spent water. Concentration, Normality, Molarity, concept of dilution. Serial dilution, Single step and multiple step dilution, Sample collection guidelines, Sample preservation, Sample order.	3. To study the First-Aid and emergency treatment in laboratory. 4. Collection and Preservation of phytoplankton and zooplankton samples from different water bodies (river, pond, lake etc)
Sept	Unit-III: -Restoration of Degraded Ecosystems: Degraded ecosystems such as, Forest, grassland. Desert ecosystem, Lentic and Lotic ecosystems, Coastal ecosystems, etc. Role of pioneer species in restoration, Major biomes of world	Unit-III: Chemistry of Air Classification of elements, Composition of air, Chemical speciation, particles, ions and radicals in the atmosphere. Chemical processes for formation of inorganic and organic particulate matter. Toxic chemicals in environment, Pesticides, Insecticides, Arsenic, Cadmium, Lead. Mercury. Carbon monoxide and Ozone, MIC and other carcinogens in air and water. Chemistry of Ozone layer, Ozone layer depletion, Causes and effects. Greenhouse effect: Major greenhouse gases, Causes and effects. Global Warming. Causes and effects.	5. The qualitative study the phytoplankton's (any 10 specimens). 6. The qualitative study the zooplanktons (any 10 specimens). 7. The quantitative study of zooplanktons - Percentage composition study 8. Collection of hydrophytes, xerophytes, mesophytic and halophytic plants / animals specimens.
Oct	Unit-IV:- Population and Community Ecology: Concept of population ecology, Population dynamics. Characteristics of population: Natality. Mortality. Fecundity. Density, Age distribution, Prey predator Relationship, Population explosion: Concept of community. Interspecific and intraspecific competition. Concept of carrying capacity. Unit-V: Tutorials, seminars and Assignments	Unit-IV:-Chemistry of Water and Soil: Chemistry of water, Structure of water molecule, Solubility of compounds in water, dissociating constant, Water quality parameters and standards, Chemistry of soil, Composition of soil, Biogeochemical cycles (nitrogen, oxygen, carbon, Sulphur, phosphorus etc.), Micronutrients of soil, Factors affecting the soil quality. Adsorption of contaminant in soil, Toxic chemicals present in soil. Unit V: Tutorials, seminars and Assignments	9. Study of xeric adaptation in plants, morphometrically and histologically. 10. Study of xeric adaptations in animal (at least 5 specimens morphometrically) 11. To study the aquatic adaptations in plants morphometrically and histological (at least 5 specimens) 12. Study of mesophytic specimens (at least 5 specimens)



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Arts, Science & Commerce College, Ambad Dist. Jalna
Dept. of Environmental-Science, Annual Teaching Plan (Year: 2023 -2024)

Month	Class: B.Sc.F.Y	Class: B.Sc.F.Y	Class: B.Sc.F.Y
	Paper: EVS-211.Paper-III	Paper: EVS-212.Paper-IV	Paper: EVS-221. Lab course-2
	Semester: II	Semester: II	Semester: II
Dec	Unit 1: Natural Resources: Definition: Classification. Concept of renewable and nonrenewable resources; their conservation and importance, Role of Individuals and NGOs in Resource Conservation: Environmental movements such as 'Chipko', Western Ghats, and Silent valley, Narmada, Project agitation etc.; Role of individuals and NGO's in natural resource conservation.	Unit 1- Introduction: Introduction to MSW, Composition and Waste characteristics of MSW, Collection, Segregation and Transfer Operation, Waste system, current scenario, MSW generation in India, Model for appropriate waste collection and segregation, reference model, mode of collection, micro-route planning and maps, transfer stations, Management and Handling Rules of MSW.	1. To study the laboratory equipments and instruments (Oven, Microscope, Incubator, Inoculation chamber, Autoclave, Electronic balance, pH meter, Colorimeter, Turbidity meter, etc). 2. To study the preparation of reagents of different Normality and Molarities (i.e. 1 N, 0.1N, 1M, etc).
Jan	Unit II: Energy Resources: Renewable and non-conventional energy resources like solar, wind, geothermal, tidal and wave energy, biomass, biogas and biodiesel, hydroelectric energy: Atomic energy, on-renewable and conventional energy resources like coal, petroleum, fuel gases; Environmental impacts of energy exploitation, Energy conservation.	Unit II-Treatment Method for MSW: B. Anaerobic Digestion, 2. Aerobic Digestion, 3. Vermicomposting. 4. Incineration, 4) Mass Burn and Refuse-Derived Fuel, 5. Waste To Energy (WTE), Dioxin and furans, heavy metals, 6. Landfill (Basic Landfill Constructions and operations, Decomposition and phases in Landfill) Types landfills (Secured Landfill, Sanitary Landfill).	3. To study the species area curve of plant species from terrestrial ecosystem / college campus. 4. To study the relative density of plant/animals species by quadrat method (by field work or by simulation). 5. To study the relative frequency of plant / animal species by quadrat method (by field work or by simulation).
Feb	Unit IV: Forest and Wildlife Resources: Importance of forests and wildlife; Types of forest resources: Overexploitation of forests; Deforestation; Forest management and conservation; Wildlife conservation; National parks and sanctuaries; Biosphere reserves.	Unit III-Integrated Solid Waste Management Source Reduction, Green. Material Selection, Product System Life Extension, Material Life Extension, Reduced Material Intensiveness, Process Management, Efficient Distribution, Eco-labels. Lifecycle Assessment. The 5 R's-Reduce, Recycle (Paper & Paperboard, Plastics. Glass Containers, Aluminum), Reuse, Remanufacture, Recovery (Energy Recovery & Material Recovery) Hazardous Waste Management: Definition and identification of hazardous wastes-sources and characteristics-hazardous wastes in Municipal Waste Hazardous waste regulations sources and disposal.	6. To study the relative abundance of plant / animal species by quadrat method (by field work or by simulation). 7. To determine the total population of avifauna from unit area of habitat by direct count of their nests and artifacts.



Mar	Unit IV: Water Resources and conservation: Water resources on the earth: Consumption and uses of water: Management and conservation of water resources; Rain water harvesting, drip irrigation. b) Mineral and Soil Resources: Types and Importance of minerals and soil; Important minerals of India; Mineral extraction and environmental problems; Conservation of mineral resources; Reclamation of mining areas. Soil erosion, conservation of soil. Unit V: Tutorials, seminars and Assignments	Unit-IV- Hazardous waste Sources and Management: - minimization of Hazardous Waste-compatibility, handling and storage of hazardous waste-collection and transport, e- waste sources, collection, treatment and reuse management. Hazardous waste treatment: Hazardous waste treatment technologies, Biomedical Waste management: Biomedical (Handling and Management) Rules 2008, Unit-V-Tutorials, seminars and Assignments.	8. Determination of chlorine by chloroscope 9. Determination of redox potential of water samples 10. Determination Hydrogen Sulphide in sewage sample. 11. Determination of moisture content of municipal solid waste. 12. Percent composition study of solid waste for organic and inorganic matter.
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Matsyodari Shikshan Sanstha's
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Month	Class: B.Sc.S.Y Paper: EVS-311, Paper-V (Microbial aspects of environmental) Semester: III	Class: B.Sc.S.Y Paper: EVS-312, Paper-VI (Soil Health and remediation measure) Semester: III	Class: B.Sc.S.Y Paper: EVS-321 Semester: III	Class: B.Sc.S.Y Paper: EVS-322 Semester: III
July	Unit –I: Introduction:- Definition, Branches of microbiology, (Industrial, Medical, Mycology, Environmental microbiology). History of microbiology b) Kingdom protista: concepts and classification of : Prokaryotes (Bacteria and Cynobacteria) Eukaryotes (Algae, Fungi and Protozoans)	Unit-I Origin of earth, Pedagogical and edaphological concepts, earth crust composition, types of rocks and minerals, Components of soil, soil nutrients and its types.	1) To study the principle and applications of instruments used for microbiological study- Incubator, Inoculation chamber, Microscope. 2) To study the morphological characters of bacteria by simple staining method. 3) Study of bacteria by Gram staining method.	1) Collection and preservation of samples. 2) Determination of Lime by titration 3) Determination of Electrical Conductivity of soil samples.
Aug	Unit-II: Bacteria:- Morphology and general characteristics, Classification of bacteria based on temperature, pH, Oxygen requirement, Carbon and energy source, Growth of bacteria. Unit-III: Viruses:- Morphology, General characters of viruses, Distribution (Animal, Plant and Bacteriophage Viruses.	Unit-II Factors affecting soil formation, soil forming processes, weathering of rocks, soil profile, composition of soil, physical, chemical and biological properties of soil.	4) Study of bacteria by negative staining method. 5) IMViC Test 6) Qualitative analysis of water by MPN technique.	4) Determination of organic carbon from soil samples by Ignition/ Walkley method. 5) To study the pH of solid waste and soil. 6) Determination of NPK of solid waste/ soil samples. 7) To study water holding capacity of soil.
Sept	Unit-III: Viruses:- Diseases caused by contaminated water:- Introduction and sources- water borne bacterial disease with their causal organisms, symptoms, prevention and control measures: Cholera, typhoid, Shigellosis. Unit-IV: A) Pure culture: Concept, Preparation and Preservation. B) Control of microorganisms: Sterilization and disinfection, Physical agents (Heat, Radiation, Filters), Chemical agents (Acid, Ethylene oxide, Alcohol and Heavy metals)	Unit-III: Soil:- Importance of organic fertilizers, green manure, vermi-composting, bio-composting, soil microbiology, types of soil in India, standard or soil quality required for various crops.	7) Identification of bacterial growth by streak plate, pour plate and spread plate method. 8) Motility of bacteria by hanging drop technique. 9) Sterilization of culture media. 10) Preparation of pure culture.	8) Demonstration of vermicompost bed for organic solid waste. 9) To study the percentage composition of degradable and non- bio-degradable waste.

Oct	Unit-IV: C) Definition and concept of vaccinations: Antigen and antibodies as preventive measures against microbial diseases. Unit-V: Tutorials, Seminars and Assignments.	Unit- IV: Soil erosion, Types of soil erosion, Conservation of soil, Types of soil pollution, Soil pollution causes and remedies. Unit -V: Tutorials, Seminars and Assignments.	11) Membrane technique (Demonstration) 12) Study of Standard plate count (SPC).	10) Determination of total acidity of soil sample. 11) Determination of total alkalinity of soil sample.
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Matsyodari Shikshan Sanstha's
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Dept. of Environmental-Science, Annual Teaching Plan (Year: 2023 -2024)



Month	Class: B.Sc.S.Y Paper: EVS-411, Paper-VII (Air Pollution control technology) Semester: IV	Class: B.Sc.S.Y Paper: EVS-412,Paper-VIII (Water Management) Semester:IV	Class: B.Sc.S.Y Paper: EVS-421 Semester: IV	Class: B.Sc.S.Y Paper: EVS-422 Semester: IV
Dec	Unit-I : Introduction to air pollution:- Definition, Composition and Chemistry of Earth atmosphere, Sources and classifications of air pollutants: Sources of air Pollutants, Classification of air pollutants, Factors affecting air pollution	Unit-I: Water resources: - Global Water Balance (GWB) - Surface water sources : Lakes, Streams, Rivers - Underground water sources : Infiltration galleries, Infiltration wells. - Types of Lake, (Oligotrophic, Mesotrophic and Eutrophic)	1. Study of various equipments used in air pollution. 2. Detection and identification of Pollen grains.	1. Study of instruments used in water analysis :- pH meter, Conductivity meter, Turbidity meter,colorimeter. 2. Study of penetration of light in water reservoir by Secchi disk. 3. Determination of pH and temperature of water sample.
Jan	Unit-II: Effect of air pollution: a) On human health, Vegetation, Historical monuments and on Materials. b) Episodes : London smog, Bhopal Disaster, Los Angeles, Chernobyl disaster	Unit-II: Uses of Water and Water Supply: - Uses : Domestic, Industrial, Agricultural, Recreational, etc. - Types of Water : Fresh and Marine. - Patterns of Drinking water supply Unit-III: Restoration of Water : - Rain Water harvesting, - Roof Water harvesting, - Watershed management.	3. Dust fall measurement by sedimentation method (tiles). 4. Detection of SO ₂ gas and its effect on plants. 5. Detection H ₂ S gas and its effect on plants.	4. Determination for total Alkalinity of water sample. 5. Measurement of Rain fall by Rain gauge meter. 6. Determination of residual chlorine from treated water by titration. 7. Determination of total Acidity of water sample.
Feb	Unit-III: Air sampling and analysis: Principle and Functioning of: High Volume Air Sampler, Sedimentation, Tilak Air Sampler, Ambient air quality Monitoring : SO _x , NO _x , SPM, RSPM Unit-IV: Pollution control methods: Sedimentation, Filters, Cyclone,	Unit-IV: Management : - Self purification of rivers, - Integrated Water Resource Management (IWRM), - Integrated Lake Basin Management (ILBM) - Stockholm Water Prize, - Water Act 1974	6. Detection of NH ₃ gas and its effect on plants. 7. Measurement of atmospheric temperature by maximum and minimum thermometer. 8. Preparation of PDA, 9. Detection and Identification of fungal spores/ colonies by PDA. 10. Study of various sampling techniques (Rotorod, High volume, Volumetric) 11. Demonstration of HVAS (High Volume Air Sampler).	8. Determination of Dissolved oxygen content from water. 9. Determination of Hardness from ground water. 10. Determination of Chlorides from water / waste water sample

Mar	Electrostatic Precipitator, Scrubbers. Unit-V: Air Pollution Act 1981 Air pollution standards – Indian ambient air quality standards and United States Standards	Unit-V: Case Study : - Aurangabad Municipal Water Supply. - Water Purification Treatment Plant at Pharola, Aurangabad. - Nath sagar reservoir (Jaikwadi dam).	12.Determination of SPM and RSPM by using High volume Air Sampler.	11. Study of primary productivity of water body. 12. Study of endangered species i.e. wild animals (any five).
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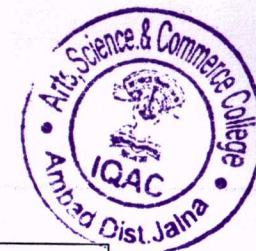


Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
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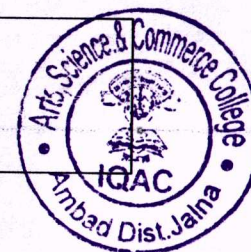
Month	Class: B.Sc.T.Y Paper: EVS-351, Paper-XV Semester: V	Class: B.Sc.T.Y Paper: EVS-352, Paper-XVI Semester: V	Class: B.Sc.T.Y Paper: EVS-353, Paper-XVII Semester: V-Lab course	Class: B.Sc.T.Y Paper: EVS-354, Paper-XVIII Semester: V- V-Lab course
July	Introduction : Unit:I .water pollution	Introduction: Unit:I . Treatment Technology,Waste water Defination.	1. Study of sampling techniques. 2. Study of preservation of water samples.	1. Estimation of sulfate from water sample
Aug	Unit:I .Meaning of the terms : potability,sewage,effluent,Effluent Sample,Contamination,Eutrophication ,Pollution,Pollutants. Sources of water pollution: Domestic, Industrial,Agriculture.	Unit:I . Types and sources of waste water,Needs of wastewater treatment,collection of waste water. Unit:II . Principal, working mechanism,advantages and disadvantages of following sewage treatment methods:	3. Determination of BOD of water sample. 4. Determination of COD of water sample. 5. Determination of Suspended solids of water sample.	2. Estimation of phosphates from water samples 3. Estimation of nitrates from water sample 4. Estimation of nitrites from water samples
Sept	Unit:II . Types of water pollution- Introduction ,Sources and effects of pollutants on aquatic flora and fauna a)Fresh water pollution:River,Ponds and lakes, b)Ground water pollution c)Marine water pollution Unit:III . Analysis of water Physical parameter and chemical parameter	Unit:II . Preliminary treatment: Grite chamber. Skimming tank. Screening. Primary treatment: sedimentation (clarifier) Coagulation(chemical precipitation tank) Unit:III . Secondary treatment(biological treatment) Aerobic: Trickling filter, Activated sludge, oxidation ponds,lagoons. Anaerobic treatment: septic tank, sludge digestion and disposal	6. Determination of dissolved solids of water sample. 7. Determination of total solids of water samples. 8. Determination of Oil & Grease in polluted water. 9. Determination of Free CO ₂ in water sample.	5. Estimation of ammonia in water samples 6. Determination of conductivity of water sample 7. Jar test demonstration
Oct	Physical parameter: color , odour, taste,TS,SS,DS,Turbidity chemical parameter: pH,Hardness,chlorides,residual chlorine,DO,BOD,COD,oil and grease,Ammonia,Nitrates,Nitrites,sulphates, phosphates. Unit:IV . Biological parameter: Planktons,Algae. MPN/100ml,IMViC test,SPC. Unit:V . Quality of water: Meaning of pure water. Standard of Potable water.	Unit:IV . Tertiary treatment or chlorination: Aim, need, dose of chlorine. Ozonation Unit:V . Water purification methods: Collection of raw water, sedimentation, Unit:V . Filtration, disinfection	10. Estimation of abundance Phytoplankton's from water samples. 11. Quantitative techniques in aquatic microbiology – SPC 12. The presumptive, confirmatory and completed tests for determination of sewage contamination. 13. Determination of Water Quality Index (WQI).	8. Determination of chlorine by chloroscope 9. Determination of redox potential of water samples 10. Determination Hydrogen Sulphide in sewage sample. 11. Determination of dissolved oxygen from polluted water sample by using azide modification. 12. Determination of Turbidity from given water sample.

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Month	Class: B.Sc.T.Y Paper: EVS-361, Paper-XIX Semester: VI	Class: B.Sc.T.Y Paper: EVS-362, Paper-XX Semester: VI	Class: B.Sc.T.Y Paper: EVS-363, Paper-XXI Semester: VI, Lab course	Class: B.Sc.T.Y Paper: EVS-364, Paper-XXII Semester: VI
Dec	Unit: I Introduction: Toxicology: Definition. Concept of toxicology, movement of toxicants in the Environment, Classification of toxic substances, i.e. Toxic gases, Organic poison, Inorganic poison.	Unit: I. Introduction to safety and safety management. Need for integration of safety, Health and Environment (S, H & E) Common safety tips- personal protection Lockout, Accident prevention signs, Occupational noise, Fire safety, Ladder safety.	1) Estimation of Zn from provided contaminated water sample 2) Determination of iron content from contaminate 3) Estimation of Pb from provided contaminated water d water.	Project work, Industrial visit report and Seminars. i) Project report: One project has to be completed during the third year as a part of practical paper of sixth semesters Lab course
Jan	Unit: II. a) Factors affecting Toxicity: Chemical factors- Polarity, Molecular weight, Nature of chemical. Biological factors: Sex, Age, Body weight, Heredity and genetic characters. b) Dose response relationship. c) Acute exposure and chronic exposure. Unit: III. Occurrence, pollution source, use, effect and remedial measure of: a) Gases- CO, CO ₂ , H ₂ S, SO ₂ , NO ₂ b) Heavy metals- As, Pb, Hg, Cu.	Unit: II. Industrial safety: Introduction. Hazard checklist- House keeping (meaning & methods) Machine Hazard, fire hazard, Protective equipments, Electrical equipments, tools. General safety rules. Unit: III. Safety Management- Safety management – principal of safety management. Fire preservation- Accident prevention (Principal, Basic terms)	4) Estimation Cu from provided contaminated sample 5) Estimation Mn from provided contaminated water sample 6) Effect of pesticides on seed germination. 7) Effect of Heavy metals of seed germination 8) To study the effects of gaseous pollutant SO ₂ on plant (Leaves and flowers).	ii) Industrial visit report: At least one industrial visit is to be arranged during each semester. The industrial visit report is to be submitted along with project report.
Feb	Unit: IV. Environmental Toxicant- Occurrence, source, effect and remedial measure : a) Toxicant in water- Hydrocarbons in water. b) Toxicant in soil- Pesticides. c) Toxicant in Air- Atmospheric Lead. Unit: V. Carcinogenic, Chemistry of Carcinogenic compounds, Carcinogens, Mutagens and Teratogens. Cancer causing agents- Drug, tobacco, Narcotic.	Unit: IV. Hazardous Waste. Definition. Sources of Hazardous waste, Classification of Hazardous Waste- Biomedical Waste, Radioactive waste, chemical waste, Household Hazardous waste, Characteristics of hazardous waste- Ignitability (Flammable), Reactivity, Corrosivity, Toxicity. Unit: V. Disposal of Hazardous waste: Recycling, Neutralization, Incineration, Pyrolysis, Hazardous waste Landfill.	9) To study the effects of gaseous pollutant H ₂ S on plant (Leaves and flowers). 10) To study the bioaccumulation of heavy metals and pesticides in living organisms.	iii) Study tour report: The study tour is to be arranged for understanding environment in total. The participation in study tour and industrial visit is compulsory. The study report is to be submitted. iv) Seminar presentation.

Mar	Unit: VI. Toxicity assessment method, Lethal concentration (LC), Lethal dose (LD).	Unit: VI. Effects of hazardous waste, Bhopal Gas Tragedy.	11) Qualitative detection of pesticides from waste water. 12) Estimation of Hg from provided contaminated water	
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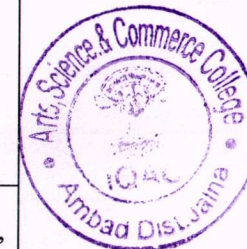
Name of Teacher: **Mr. M. B. Kharat**

Department of Microbiology



Month	Class: FY	Class: SY	Class: TY
	Paper No: MCB 112	Paper No: MCB 311	Paper No: XVI
	Semester: I	Semester: III	Semester: V
Aug-2022	Unit-I: Sterilization-contribution of (10) Richard J. Petri: Petri plates and their types Schroeder and Dusch: Cotton plug C. Salomonsen: Hot air oven Wire loop: Introduction, diameter, Connors transfer loop, Roux and Yersin, Platinum needle. Agar: Discovery, introduction, structure classification of agar and agar gels. Uses of agar. Agar slant apparatus: Introduction, diagram and angles used in slant preparation. Incubators: Types of incubators (Anaerobic incubator, Perfusion incubator, Pocket incubator, Thermal gradient incubator) Pasteurizer: Beer pasteurizing apparatus. Autoclave: Hot air oven Radiations: (Gamma rays, X rays, Ultra violet rays)	Unit 1: Microbiology of air: (10) Composition of air. Number and kinds of microorganisms in air (indoor outdoor Distribution and sources of airborne microorganisms. Air as a carrier of microorganisms Droplet, droplet nuclei, Dispersal of Microorganisms in air. Techniques for microbiological analysis of air. Significance of air flora in human health, hospitals, industries. Air sanitation-dust control, UV radiation, bactericidal vapors, filtration, Laminar airflow system (HEPA filters)	Unit: I - Enzymes: Definition, properties, specificity, active site, activation of Mechanism of action of enzymes (lock and key, Induced fit, ping-pong) (10) enzymes, - Nomenclature and classification of enzymes. - Factors affecting catalytic activity of enzymes substrate concentration metal ions, time) (pH, temperature, enzyme concentration, - Michaelis-Menten equation; derivation and significance - Transformation of Michaelis Menten equation - Types of enzymes extracellular, intracellular, constitutive and inducible,
Sep-2022	Chemical sterilizing agents (Spectrum, Mode of action, Application, A. Sterilization- introduction b. Definition and concept: Disinfection, Germicide, Antiseptics, Bacteriostatic, Bactericidal b. Limitations) Phenolic, Alcohols, Halogens, Heavy metals Quaternary ammonium Compounds, Aldehydes. C Sterilization using gases (Spectrum, Mode of action, Application, Limitations) Sulfur dioxide, Ethylene oxide and Beta propiolactone d. Evaluation of disinfectants: Phenol coefficient	Unit2. Microbiology of Water and Wastewater: (10) Sources of microbes in water. Determining sanitary quality of water indicators of fecal pollution Fecal and nonfecal coliforms (IMVIC & elevated temperature tests). Bacteriological examination of water Presumptive, confirmed, completed test SPC, MPN and Membrane filter technique. Water purification methods Disinfection of potable water supplies. Definition of sewage and chemical composition. transpiration Microbiology of sewage treatment septic tank evapotranspiration, Imhoff's tank Municipal sewage treatment process: Primary Secondary, (aerobic and anaerobic process).	Unit: II - Enzyme inhibition: Irreversible, reversible (competitive, uncompetitive, noncompetitive) and metabolic antagonism, feedback inhibition. - Co-enzymes and respective enzymes, (NAD, FAD, Lipoic acid. Vitamin B12, Thiamine pyrophosphate) - Elementary knowledge and uses of isoenzymes - Commercial uses of enzymes (any five) (food, leather, textile, environment, pharmaceuticals Is and clinical)

		Chemical treatment chlorination. Disposal of treated sewage. (Sludges fertilizer, imitation and dilution)	Enzyme Immobilization
Oct-2022	Unit-III Pure Culture Techniques A. Development of pure culture B. Single Cell Isolation (10) C. Methods for isolation of pure culture- Streak plate method, pour plate method, Spread plate methods D. Handling of pathogenic microorganisms E. Methods for disposal of microbial wastes F. Techniques for enumeration of microorganisms Cell count by Direct Microscopic Count, Colony count Measurement of turbidity, Measurement of cell mass Cultivation of microorganisms A Properties of a good culture medium. B. Definition and concept a. Living media: Embryonated chicken eggs, Tissue culture & Animals b. Nonliving media: Natural, Semi-synthetic & Synthetic Types of culture media on the base of their specific use w.r.t. role of media ingredients (with examples) Selective, Differential, Enriched, Enrichment, Assay, Minimal, Maintenance and Transport media D. Role of Buffers in culture media. E. Media used for cultivation of bacteria, fungi, actinomycetes, yeasts, algae and photosynthetic bacteria (at least two) F. Techniques for cultivation of anaerobes: John H. Brewer Instrument and Anaerobic Jar closure assembly G. Method for detecting microscopic organisms using bacteriophage: Kent J. Voorhees Apparatus. H. Measurement of gas production by Wilkins et al method.	Unit3. Microbiology of Soil: Soil as an environment, as a culture medium. (10) Brief account and definition of microbial interactions with examples Symbiosis, mutualism, commensalism, competition, synergism, satellitism, predation. parasitism with example: I Microbe-microbe interactions (any one example) II. Plant-microbe interactions (Phyllo sphere) III. Animal-microbe interactions [Rumen; Bioluminescence) Major biogeochemical cycles Carbon, nitrogen, phosphorus, Sulphur (cyclic turnover with microbiology). General account of microbes used as biofertilizers, phosphate solubilizers, (Definition, Types, advantages, disadvantages) Rhizosphere definition, rhizosphere and non-rhizosphere microflora and R:S ratio, significance for fertility.	Unit: III Definitions: Metabolism, anabolism, catabolism, free energy, Bioenergetics: chemical links between catabolism and biosynthesis, energy coupling through ATP and through pyridine nucleotides, Central role of ATP-ADP system. Modes of energy yielding metabolism: Definition and features of fermentation, Respiration and photosynthesis. Fermentation of carbohydrates EMP, HMP, ED, Phosphoketolase pathway (pentose, hexose) with stricture • Alcoholic, homolactic, mixed acid, butanediol, butyric, acetone-butanol fermentations,



Nov -2022	Unit IV- Stains and Staining Fundamentals of microbial staining (10) a. Definition: stain, dye, chromogen, chromophore, auxochrome, b. Types of stains: Acidic, basic C Staining reagent: Primary stain, Secondary stain, Mordant and Decolorizer d. Fixation of Smear: Physical and Chemical methods Physicochemical basis of staining. B. Staining methods a. Staining (Principle, application and methodology) Monochrome staining and Negative staining b. Differential staining (Principle, application and methodology) Gram's staining and Acid-fast staining Structural/Special staining procedures C. Cell wall, Capsule, Spore, Flagella, Metachromatic granule, d. Staining of Fungi. C. Micrometry d. Hanging drop technique e. microscopic photograph	Unit4.Environmental Pollution (10) Air pollution sources, causes. Health hazards, airborne diseases any list of causative agents) Water pollution: sources, causes, health hazards, waterborne diseases any (list of causative agents). Waste water pollution: sources, causes, health hazards, Eutrophication and Acid mine drainage basic concept. Soil sources, causes. Health hazards,	UNIT IV • Aerobic respiration: •RETC: location functions, components, redox carriers, oxidative phosphorylation artificial electron acceptor, bacterial cytochrome systems TCA cycle, glyoxylate cycle, anaplerotic sequences. Catabolism of saturated (16 carbon) and unsaturated fatty acids (16 carbon) by Beta Oxidation Degradation of proteins and amino acids: proteolysis, putrefaction, Transformation of amino acids: oxidation, reduction, decarboxylation, deamination (one • Nucleic acid catabolism: DNA, RNA depolymerization, degradation of nitrogenous bases example of each) (mention end products without pathway) • Biosynthesis of nucleotides: Purine and pyrimidine nucleotides, conversion of ribonucleotides to deoxyribonucleotides.
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Matsyudari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-24)



Month	Class: FY	Class: SY	Class: TY
	Paper No: 211	Paper No: 411	Paper No: XX
	Semester: II	Semester: IV	Semester: VI
Dec- 2022	Unit-1: Basic of atoms and molecules (10) I. Concepts of Atom, Molecule, pH, Acids, Bases, Buffer, Solvent, Solute, Types of solutions (hypotonic, hypertonic, isotonic) and redox potential II. Types of Isomers and their importance in biology. III. Types of bonds and their importance: Electrovalent, covalent, non-covalent, Ester, Phospho-diester, Thio-ester, Peptide, Glycosides	Unit1: Dairy Microbiology Definition and composition of milk. Sources of microorganisms in milk. Desirable and undesirable changes carried out by microorganism in milk Types of microorganisms: Biochemical types, temperature characteristic and pathogens (bovine and human origin). Antimicrobial substances in milk Microbiological examination of milk: SPC, DMC, Reductase test (MBRT and Resazurin) Phosphatase test. Pasteurization and sterilization of milk National and international microbiological standards for dairy products (BIS, ICMSF, CODEX, Alimentary standards.	Unit: I Introduction to Industrial Microbiology. 10 Brief history and developments in Industrial Microbiology Lay out of a fermentation Industry- Different units and functions (Stock, production and fermentation, QA, QC, R & D, Packaging) Importance of sterility maintenance and checking Types of fermentation processes, bioreactors and measurement of fermentation Types of fermentation processes- solid state, liquid state, batch, fed batch and continuous Design of a typical fermenter, control of pH, temperature, dissolved oxygen, foaming and aeration
Jan-2023	Unit II: Amino acids and Proteins (10) Amino Acids: Definition, General structure and features of amino acids, amphoteric nature, List of 20 amino acids. Classification of amino acids: based on R-group, Uncommon amino acids and their functions. Proteins: Definition. Classification of Proteins, Primary, secondary, tertiary, quaternary structures of proteins (outline). Biological significance of proteins. Classification of Proteins, Primary, secondary, tertiary, quaternary structures of proteins. Biological significance of proteins	Unit 2. Food Microbiology. Food as a substrate for microorganisms' Major groups of bacteria, fungi, yeasts important in food microbiology. Sources of contamination of food, factors affecting kind and number of microorganisms in food. Principles of food preservation: Micro biostatic and microbicidal methods: Asepsis, removal of microorganisms, anaerobic conditions, high temp, low temp, drying, chemical preservatives, high osmotic pressure, radiation, smoking Microbial spoilage of foods. Classification of foods by ease of spoilage, chemical changes caused by microorganisms in Types of spoilage of canned and non-canned foods with organisms involved. (Tabular form).	Unit II: Isolation of industrially important microbial strains and fermentation media 10 - Sources of industrially important microbes and methods for their Screening and isolation - Preservation and maintenance of industrial strains - Strain improvement Development of inoculum - Fermentation media Crude and synthetic media, molasses, SWL, CSL, whey

Feb-2023	Unit-III: Carbohydrates (10) a) Definition and Classification. b] Monosaccharides, Triose, Tetrose, Pentose, Hexose (Examples and structures). c) Disaccharides: Glycoside Linkage (Lactose, Maltose and Sucrose). Oligosaccharides: Trisaccharide's (Structure of raffinose).] Polysaccharides: Homo and heteropolysaccharides, structure of (Starch, Cellulose, Hyaluronic acid)., Biological Significance of carbohydrates.	Unit 3. Foodborne Diseases, Intoxication and Quality Assurance (No. of hours: 10) Food borne diseases: Food infections, indicators of food pathogens associated with food. Food intoxication: Staphylococcal, Clostridial, Mycotoxins, Salmonellas and Shigellosis Relevance of microbial standards for food safety Government regulatory practices and policies: FDA. EPA/WHO, HACCP, FSSAI ISO, ICMSF	Unit III: Downstream processing • Cell disruption • Filtration • Centrifugation • Solvent Extraction • Precipitation Lyophilization
Mar-2023	Unit IV: Lipids and Nucleic acids Definition and Classification. Types of Lipids: Simple Lipids-Triglycerides. Conjugated Lipids- Phospholipids, Phosphatidic acid, and Cholesterol. (12) Biological importance of Lipids. Purine, pyrimidine bases, Ribose and Deoxyribose sugars, phosphodiester bonds, m-RNA, t-RNA and r-RNA.	Unit 4. Fermented Food and Probiotics Cheese: Classification and production Sauerkraut, Butter, Idly, Criterion for probiotics: Yoghurt and Curd Mushroom as SCP. Unit V: Tutorials, Seminars and Assignments (05 Periods)	Unit IV: Microbial production of industrially products (Microorganism involved, media. Fermentation conditions, downstream processing and uses) • Citric acid production • Ethanol production • Wine • Beer Penicillin • Amylase



HOD

Teacher


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Month	Class: FY	Class: SY	Class: TY
	Paper No: MCB 111	Paper No: MCB 312	Paper No: XV
	Semester: I	Semester: III	Semester: V
Aug-2022	Unit: I History of Microbiology 1. Definition and concepts (10) 1. Discovery of microorganisms: Contribution of Antony Van Leeuwenhoek. 2. Spontaneous generation theory Aristotles view, Charles Darwin view. 3. Controversy over spontaneous generation 4. Recognition of the microbial role in diseases: Koch's postulates, Koch's direct stimulation theory, Aseptic surgery 5. Discovery of microbial effects on organic and inorganic matter. 3. 5. Recognition of the microbial role in fermentation: Contribution of Louis Pasteur Stahls theory of fermentation, 6 Pure culture concepts 7. Patenting of microorganisms: contribution of Louis Pasteur and Anand Chakraborty	Unit-1. Normal flora and Immunity (10) Normal flora of human body and its significance Definition and classification: Innate / Acquired, Barriers and types with examples Cellular/Humoral immunity, Humoral factors of Immunity: complement, interferon. Antigens (Immunogens): Definition, determinants of antigenicity, a) size, b) chemical, c) nature, d) susceptibility to tissue enzymes, foreignness, specificity of antigens. Types of antigens: species specific antigen, Isoantigen, autoantigen, organ specific antigen, MHC antigen, Heterogenetic (Heterophile) antigen, antigens in relation to bacterial cell. Antibodies (Immunoglobulins): Structure, classes and functions, Types of antibodies: antitoxin, precipitin, agglutinin, bacteriolysin, bacteriocidin, bacteriotropin, complement fixing, neutralizing. • Hybridoma Technology and Monoclonal Antibodies	Unit 1 Genome Organization and Mutations. No. of Hours: 10 Genome organization: E. coli, Saccharomyces, Drossophila Mutations and mutagenesis: Definition and types of Mutations, Physical and chemical mutagens; Molecular basis of mutations, Functional mutants (loss and gain of function mutants); Uses of Mutations. Reversion and suppression. True revertants, Intra- and inter-genic suppression; Ames test; replica plating, and fluctuation test. Mutator genes.
Sep-2022	Unit: II Microscopy (10) 1. Introduction of Magnification, resolving power, depth of focus, focal length, numerical aperture. 1 Electron Microscope: [SEM and TEM). 2 Phase contrast microscope. 3 Dark field microscopes. 4. Fluorescence Microscope. 5. Atomic Force Microscope	Unit-2. Immune system, Antigen-Antibody reactions, Vaccines and hypersensitivity (10) Immune system: organs and cells involved and functions, types of cells their differentiation and functions. General features. Mechanisms, methods & applications of Antigen-Antibody reactions. - Precipitation - Agglutination: - Complement fixation - Neutralization - Immunofluorescence - ELISA Vaccines and toxoids: types, principles of	Unit 2 Plasmids. No. of Hours: 10 Types of plasmids-F plasmid, R Plasmids, colicin genic plasmids, Ti plasmids, linear plasmids, yeast 2 plasmid, Plasmid replication and partitioning. Host range, plasmid incompatibility, plasmid amplification, Regulation of copy number, curing of plasmids

		methods of BCG, TAB, OPV, T.T, DPT, Covid-19 vaccines production, Immunization schedule. Hypersensitivity (Four types with one example in brief) Autoimmunity and Autoimmune diseases: Myasthenia gravis and Rheumatoid arthritis	
Oct-2022	1. Taxonomic rank. 2. Major characteristics used in taxonomy (Morphological, Physiological, Immunological, Metabolic). Compositions of proteins, Composition of nucleic acids, Nucleic acids hybridization, 3. Nucleic acid sequencing, 16S rDNA. 4. Classification system Numerical taxonomy. 5. Bergey's manual of systematic Bacteriology, General characteristics enlisting all parts with major characters and examples in brief.	Unit-3. Study of Human Diseases caused by bacteria. (10) Study of following diseases w. r. t. morphology, classification, staining reactions, cultural & biochemical characters, antigenic structure, pathogenesis, Laboratory diagnosis epidemiology, prophylaxis and chemotherapy • Staphylococcus aureus • Mycobacterium tuberculosis • Salmonella typhi • Streptococcus pneumonia • Clostridium tetani • Treponema Pallidum • Neisseria gonorrhoeae	Unit 3 Mechanisms of Genetic Exchange. No. of Hours: 10 Transformation-Discovery, mechanism of natural competence. Conjugation-Discovery, mechanism, Hir and F strains, Interrupted mating technique and time of entry mapping Transduction Generalized transduction, specialized transduction, LFT & HFT lysates, Mapping by recombination and co-transduction of markers.
Nov -2022	Unit: IV General characteristics of Microorganisms (10) 1. Fungi 2 Actinomycetes 3 Algae 4 Mycoplasma 5. Rickettsia. 6 Archaeobacteria 7. Protozoa	Unit-4. Study of Human Diseases caused by fungi, protozoa and viruses 10 Study of following diseases w. r. t morphology, classification, staining reactions, cultural & biochemical characters, antigenic structure, pathogenesis, Laboratory diagnosis, epidemiology, prophylaxis and chemotherapy. • Fungal diseases Dermatophytosis and candidiasis • Protozoal Diseases-Malaria, Amoebiasis • Viral diseases-HIV, Hepatitis, Covid-19, Chikungunya.	Unit IV Transposable elements. No. of Hours: 10 Prokaryotic transposable elements Insertion Sequences, composite and non-composite transposons, Replicative and Non replicative transposition, Mu transposon Eukaryotic as posable elements Yeast (Ty retrotransposon), Drosophila (P elements), Matre (Ac Tho Uses of transposons and transpositam



Matsyodari Smikshan Sanshodhan
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-24)

Month	Class: Paper No: 212 Semester: II	Class: Paper No: 412 Semester: IV	Class: Paper No: XI Semester: VI
Dec- 2022	Unit-1: Bacterial morphology and outer ultra structures of cell. (10) 1. Cytology of a typical bacterial cell. Prokaryotic and Eukaryotic cell structure. 2. Morphology - size and arrangement of bacterial cells. 3. Structure, chemical composition and functions of: i. Capsule and slime layer ii. Flagella: Arrangement, Structure, mechanism of flagellar movement, Chemotaxis, phototaxis, Magneto taxis. iii. Pili iv. Cell wall: Gram positive and Gram-negative bacteria V. Cell membrane/Unit membrane	Unit-1. Bacterial Photosynthesis Photosynthetic bacteria, Photosynthetic apparatus. ii. Photosynthetic pigments, Organization of photosystem I and II, cyclic and non-cyclic flow of electrons, Z scheme, Hill reaction, photolysis of water and generation of reducing power by cyclic and non-cyclic photophosphorylation (Light reactions of photosynthesis) iii. Electron transport chain (ETC) in photosynthetic bacteria, Carbon dioxide fixation pathways. Oxygenic and Anoxygenic mechanisms. iv. Calvin cycle (Dark reactions of photosynthesis) and its regulation.	Unit 1: DNA- Molecular structure, properties, replication. (No. of hours: 10) • Molecular biology: Definition, concept • Flow of genetic information within a biological system- Central dogma of molecular biology (Francis Crick) • Molecular structure of DNA • Molecular properties of DNA • Melting, Breathing, Flexibility, Linking number. Major and Minor grooves • DNA replication: Semi conservative mode of DNA replication: Meselson and Stahl experiment • Replication assembly, role of components and process of replication (continuous and discontinuous synthesis of DNA) • DNA polymerases: Types and characteristics Post replication modification: Methylation
Jan-2023	Unit 2: Bacterial morphology and inner ultra structures of cell. (10) 1. Bacterial Endospores: Structure, Formation and Germination process H Ribosomes. Nuclear material iv. Mesosomes V Reserved food material: Nitrogenous, Non-nitrogenous (Starch and Glycogen, Poly beta hydroxy butyric acid), polyphosphate, Sulfur granules. 4. Bacterial cell division: Binary fission	Unit-2. Respiration i. Laws of thermodynamics, Concepts of free energy, entropy, high energy compounds Pyrophosphate, enolic phosphates, acyl phosphates, thioester compounds, guanidinium compounds and guanidinium compound. ii. Aerobic and anaerobic Mitochondrial electron transport chain, structure and function of ATPase (bacterial and mitochondrial), generation and maintenance of proton motive force, oxidative phosphorylation. iii. Anaerobic Respiration: Concept of anaerobic respiration, components of electron transport system and energy generation of bacteria where nitrate, sulfate and carbonate act as terminal electron acceptors, Hydrogen,	Unit II: Gene expression and regulation. (No. of hours: 10) • Salient features of genetic code • Protein synthesis: Central dogma Assembly, transcription and translation processes • Regulation of gene expression: Lac and Ars operon



		carbon monoxide, Ammonia, Nitrite, Sulphur, and Iron oxidizing bacteria. iv. Biochemistry of biological nitrogen fixation, properties of nitrogenase and its regulation, Ammonia assimilation with respect to glutamine synthetase, glutamate dehydrogenase, glutamate synthetase, their properties and regulation.	
Feb-2023	Unit -3: Viral Morphology and Genomic structure (10) 1. Introduction and General characteristics 2. Discovery and Early development of Virology 3. Virions, Viroid's, Virusoids, Prions. 4. Structure of viruses: Size, Shape, Proteins, Capsids and capsomers. 1) The structure of filamentous viruses and nucleoproteins the structure of isometric viruses (tetrahedron, cube, octahedron, dodecahedron, icosahedrons) iii) Enveloped (membrane bound) viruses iv) Viruses with head-tail morphology 5. Viral genomes 1) Positive-Sense Single stranded RNA Viruses Negative-Sense Single stranded RNA Viruses Double-Stranded RNA Viruses iv) Retroviruses Double-Stranded DNA Viruses vi) Single-Stranded DNA Viruses	Unit-3. Membrane Transport The composition and architecture of membranes, Membrane dynamics 1. Solute transport across membranes: Passive transport- diffusion, Osmosis, facilitated diffusion, Active transport - Active transport systems in bacteria primary and secondary active transport using P. V and F type ATPases. iii. Group translocation of sugars in bacteria. iv. Ionophores, Ion mediated transport, transport of ions across membranes (ion pumps).	Unit III: Tools and processes involved in Genetic Engineering (No. of hours 10) Genetic engineering: Definition, objectives, steps involved, tools used for cloning Restriction endonucleases: Types, patterns with examples, respective recognitive sequence Vectors: Properties of a good vector, characteristics of pRR322, pUC19, Bacteriophage vector, cosmid, BAC, YAC Processes involved in uptake of DNA: Calcium chloride treatment, electroporation, protoplast fusion, liposome Selection of recombinant clones: Blue white script screening
Mar-2023	Unit-4: Classification, Multiplication, Cultivation and Impact of viruses (10) 1. Classification: ICTV (International Committee on Taxonomy of Viruses), Baltimore and LHT System) 2. Multiplication: Lytic cycle in Animal and Bacteria 3. Lysogeny 4. Cultivation of Viruses: Egg inoculation and Tissue culture 5. List of common viral diseases with causative agents and important symptoms in plants, animals and human beings. 6. Emerging human viruses (Brief) i. H1N1 Influenza Virus (Swine Flu) ii. Avian Influenza (Bird Flu)	Unit-4. Bacterial Growth and Sporulation (10) Microbial growth, Growth curve, Mathematical expression of growth i. Sporulating bacteria, molecular architecture of spore's induction sporulation ii. Influence of different factors on sporulation. iii Cytological and macromolecular changes during sporulation iv. Germination of spores.	Unit IV: Techniques and Application of genetic engineering. (No. of hours10) - Probes Definition, characteristics, preparation and labeling - Polymerase Chain Reaction (PCR) Components, steps involved, application - Nucleic acid and protein detection techniques: Southern blotting, Western blotting, Northern blotting, Colony hybridization, DNA sequencing by Sanger's/dideoxy method - Application of genetic engineering in: Agriculture Bt



	Ebola Hemorrhagic fever (Ebola virus disease) iv. Chikungunya Virus V. Severe acute respiratory syndrome (SARS) vi. Nipah virus disease vii. Zika virus infection 7. Viruses and cancer 8. Viruses used in Recombinant DNA technology		cotton and Golden rice, Human and animal health- Disease diagnosis and HBV vaccine, Industries- Stain improvement, Insulin. Environment- Superbug and Bioremediation Ethical issues of genetic engineering Unit V: Tutorials, Seminars and Assignments. (05 Periods)
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Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad(M.S.)

TEACHING PLAN (First Term)

Year (2023-24)

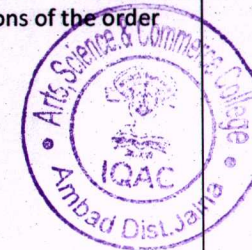


Name of the teacher: Asst. Prof. Katare R. S.

Department: Mathematics

Month	Class:B.Sc.(F.Y.) Semester:First Paper Name: Geometry	Class:B.Sc.(S.Y.) Semester:Third Paper Name:Laplace & Fourier Trans	Class:B.Sc.(S.Y.) Semester:Third Paper Name:Mechanics-I	Class:B.Sc.(T.Y.) Semester:Fifth Paper Name: ODE-I
June	Unit-1:The Plane: Equation of the first degree in X,Y,Z transformation to the normal form,determination of the plane under the given condition,equations of the plane through three given point,system of a plane,length of the perpendicular from a point to plane.	Unit-1:Beta & Gamma Functions and Laplace Transform: Beta & Gamma functions,Elementary properties of Gamma Functions,Relation between Beta and Gamma Functions,Laplace Transform,Important Formulae, Laplace Transform of the Derivative of $f(t)$, Laplace Transform of $tf(t)$ (Multiplication by t)	Unit-1: Force acting on a Particle: Particle, Rigid body, The force as a vector, equilibrium, An axiom for equilibrium of two forces, Statics, Resultant of forces, Law of parallelogram of forces,Principal of the transmissibility of force, Deductions.	Prerequisite: Complex Numbers
July	Unit-2: Right line: Equation of line,equation of a line of a straight line in terms of its direction cosine and the co-ordinates of a point on it,equation of a line through two points,symmetrical and unsymmetrical forms of the equations of a line,transformation of the equation of a line to symmetrical form,angle between and a plane.	Laplace Transform of $\frac{1}{t}f(t)$ (Division By t), Unit Step Function, Second Shifting Theorem, Impulse function, Periodic, Convolution theorem, Evaluation of Integrals, Formulae of Laplace Transform, Properties of Laplace.	Resultant of forces $m\vec{OA}$ & $n\vec{OB}$, Components of and resolved parts, The algebraic sum of resolved parts of two forces,To find the magnitude and direction of the resultant of any number of co-planar forces acting at a point, Resultant of parallel forces.	Unit-1: Preliminaries: Introductions, Functions, Polynomials, Complex series and the exponential function, Determinants

August	Unit-3: Applications of right line: The condition that a given line may lie in a given plane, the condition that two given are coplanar, number of arbitrary constants in the equation of a straight line, sets of condition which determine a line, the shortest between two lines, the length and equation of the line of the shortest distance two straight line, length of perpendicular from a given point to a given line.	Unit-2: Inverse Laplace Transforms: Inverse Laplace transform, Important Formulae, Multiplication by s , First Shifting Property, Second Shifting Property, Inverse Laplace Transform of derivatives, Inverse Laplace of Integrals, Partial Fraction Method, Inverse Laplace Transform by convolution.	Unit-2: Equilibrium of Forces Acting on a particle: Triangle law of forces, Converse of the triangle law of forces, Polygon of forces, Lami's theorem, Conditions of equilibrium of forces acting on a particle.	Unit-2: Linear Equations of First Order: Introduction, Differential Equations, Problems associated with differential equations, Linear equations of the order
September	Unit-4: Sphere: Definition and equation of the sphere, Equation of the sphere through given four points, plane section of a sphere, intersection of a sphere, equation of a two sphere, equation of a circle, sphere through a given circle, intersection of a given sphere and a line.	Unit-3: Solution of differential Equation and Integral Transform: Solution of Differential Equations by Laplace Transform, Solution of Simultaneous Differential Equations by Laplace Transform.	Unit-3: Forces acting on a Rigid Body: Introduction, Moment of a forces, Sum of vector moments of two like parallel forces, Couples, Conditions of equilibrium of forces acting on a rigid body, Trigonometrical Theorems.	Unit-4: Linear Equations with Constant Coefficient: Introduction, second order homogeneous equation, Initial value problems for second order equations.
October	Unit-5: Cones and Cylinders: The right circular cone, equation of a right circular cone, the right circular cylinder, equation of a right circular cylinder.	Unit-4: Fourier transform: Introduction, Integral Transform, Fourier Integral Theorem, Fourier's sine and cosine integrals, Fourier's Complex Integrals, Fourier Transform, Fourier Sine and cosine Transform, properties of Fourier Transform.	Unit-4: Centre of Gravity: Centroid of weighted points, Centre of Gravity, Centre of gravity of some uniform bodies.	Linear dependence & independence, A formula for Wronskian,



Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad (M.S.)



TEACHING PLAN(Second Term)

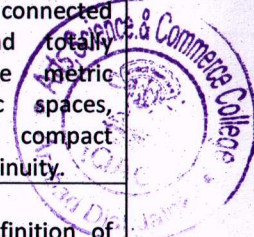
Year (2022-23)

Name of the teacher: **Dr.Katare R. S.**

Department: **Mathematics**

Month	Class:B.Sc.(F.Y.) Semester:Second Paper Name: Number theory	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: Complex Analysis	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: Mechanics - II	Class:B.Sc.(T.Y.) Semester:Sixth Paper Name: Real Analysis-II
November	Unit-1:Divisibility Introduction Divisibility, primes(Theorem 1.19) only.	Unit-1:Complex Numbers Complex numbers, Geometrical representation of imaginary numbers. Argand diagram, Modulus and argument, Exponential and circular functions of complex.	Unit-1: Kinematics and Dynamics of a Particle in two Dimensions Introduction, Definitions, Velocity and acceleration in terms of vector derivatives, Tangent and unit vector along the tangent, Rate of change of unit vector moving in a plane, Curvature, principal normal, Tangential and normal components of velocity and acceleration, Angular speed and angular velocity, Radial and transverse components of velocity and acceleration, Areal speed and areal velocity.	Unit -1: Limits in Metric Spaces: Metric spaces, Limits in metric spaces.
December	Unit-2: Congruence: Congruences, solution of congruences, The Chinese Remainder Theorem,	Unit-2 :Functions of Complex Variables Introduction, Complex variable, Function of complex variable, Limits of complex variable, Continuity, Differentiability, Analytic functions, The Necessary and sufficient conditions for analytic functions, Cauchy Riemann equations in polar form. Orthogonal curves, Harmonic functions, Method to find a conjugate functions.	Unit-2: Kinetics of a Particle Introduction, Newton's law of motion, Matter, Linear momentum, Angular momentum. An Impulsive force and its impulse, Conservation of linear momentum, Impact of two bodies, Work, Energy, Scalar point function, Vector point function, Field of force, Conservative field of force.	Unit-2: Continuous Functions on Metric Spaces: Functions continuous on metric spaces, open sets, Closed sets. [1].

January	Unit-3: Some Functions of Number Theory Greatest integer Function, Arithmetic Function, The Mobius Inversion Formula	Unit-3: Complex Integration Complex integration. Simply connected region, Cauchy's integral theorem. Cauchy's integral formulae, Morera's theorem, Cauchy's inequality. Liouville's theorem.	Unit-3: Motion of a Projectile and Motion in a Resisting Medium Rectilinear motion, Motion under gravity, Projectile, Motion of projectile, Range on an inclined plane, Parabola of safety, Projectile to pass through a given point, Motion in a resisting medium,	Unit-3: Connectedness, Completeness and Compactness: More about open sets, connected sets, bounded sets and totally bounded sets, Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces, Uniform continuity.
February	Unit-4: The Equation $ax+by=c$, Simultaneous equation	Unit - 4: Singularities and Residues Singular point, Residues, Method of finding residues.	Motion of a body moving under gravity and in a medium whose resistance varies as velocity.	Unit-4: Calculus: Sets of measure zero, Definition of Riemann Integral, Existence of Riemann Integral, Fundamental Theorem of Calculus.
March		Residue theorem, Evaluation of real definite integrals by contour integration, Integration round the unit circle.	Unit-4: Central Orbits Definitions. Areal velocity in central orbit, Differential equation of central orbit, Apses, Law of force, Pedal equation of some curves.	Unit-5: Fourier Series: Introduction.



Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad(M.S.)

TEACHING PLAN (First Term)

Year (2023-24)

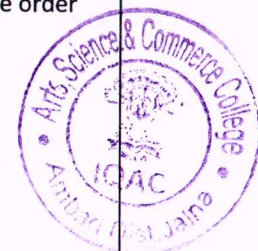


Name of the teacher: **Asst. Prof. Katare R. S.**

Department: **Mathematics**

Month	Class:B.Sc.(F.Y.) Semester:First Paper Name: Geometry Paper Code:- MAT-102	Class:B.Sc.(S.Y.) Semester:Third Paper Name:Laplace & Fourier Trans Paper Code:- MAT- 302	Class:B.Sc.(S.Y.) Semester:Third Paper Name: Mechanics-I Paper Code :- MAT- 303	Class:B.Sc.(T.Y.) Semester:Fifth Paper Name: ODE-I Paper Code :- MAT - 504
June	Unit-1: The Plane: Equation of the first degree in X,Y,Z transformation to the normal form,determination of the plane under the given condition,equations of the plane through three given point,system of a plane,length of the perpendicular from a point to plane.	Unit-1: Beta & Gamma Functions and Laplace Transform: Beta & Gamma functions,Elementary properties of Gamma Functions,Relation between Beta and Gamma Functions,Laplace Transform,Important Formulae, Laplace Transform of the Derivative of , Laplace Transform of (Multiplication by t)	Unit-1: Force acting on a Particle: Particle, Rigid body, The force as a vector, equilibrium, An axiom for equilibrium of two forces, Statics, Resultant of forces, Law of parallelogram of forces,Principal of the transmissibility of force, Deductions. • Practical	Prerequisite: Complex Numbers
July	Unit-2: Right line: Equation of line,equation of a line of a straight line in terms of its direction cosine and the co-ordinates of a point on it,equation of a line through two points,symmetrical and unsymmetrical forms of the equations of a line,transformation of the equation of a line to symmetrical form,angle between and a plane.	Laplace Transform of Division By t), Unit Step Function, Second Shifting Theorem, Impulse function, Periodic, Convolution theorem, Evaluation of Integrals, Formulae of Laplace Transform, Properties of Laplace.	Resultant of forces m.& n., Components of and resolved parts, The algebraic sum of resolved parts of two forces,To find the magnitude and direction of the resultant of any number of co-planar forces acting at a point, Resultant of parallel forces. • Practical	Unit-1: Preliminaries: Introductions, Functions, Polynomials, Complex series and the exponential function, Determinants

August	Unit-3: Applications of right line: The condition that a given line may lie in a given plane, the condition that two given are coplanar, number of arbitrary constants in the equation of a straight line, sets of condition which determine a line, the shortest between two lines, the length and equation of the line of the shortest distance two straight line, length of perpendicular from a given point to a given line.	Unit-2: Inverse Laplace Transforms: Inverse Laplace transform, Important Formulae, Multiplication by s, First Shifting Property, Second Shifting Property, Inverse Laplace Transform of derivatives, Inverse Laplace of Integrals, Partial Fraction Method, Inverse Laplace Transform by convolution.	Unit-2: Equilibrium of Forces Acting on a particle: Triangle law of forces, Converse of the triangle law of forces, Polygon of forces, Lami's theorem, Conditions of equilibrium of forces acting on a particle. • Practical	Unit-2: Linear Equations of First Order: Introduction, Differential Equations, Problems associated with differential equations, Linear equations of the order
September	Unit-4: Sphere: Definition and equation of the sphere, Equation of the sphere through given four points, plane section of a sphere, intersection of a sphere, equation of a two sphere, equation of a circle, sphere through a given circle, intersection of a given sphere and a line.	Unit-3: Solution of differential Equation and Integral Transform: Solution of Differential Equations by Laplace Transform, Solution of Simultaneous Differential Equations by Laplace Transform.	Unit-3: Forces acting on a Rigid Body: Introduction, Moment of a forces, Sum of vector moments of two like parallel forces, Couples, Conditions of equilibrium of forces acting on a rigid body, Trigonometrical Theorems. • Practical	Unit-4: Linear Equations with Constant Coefficient: Introduction, second order homogeneous equation, Initial value problems for second order equations.
October	Unit-5: Cones and Cylinders: The right circular cone, equation of a right circular cone, the right circular cylinder, equation of a right circular cylinder.	Unit-4: Fourier transform: Introduction, Integral Transform, Fourier Integral Theorem, Fourier sine and cosine integrals, Fourier's Complex Integrals, Fourier Transform, Fourier Sine and cosine Transform, properties of Fourier Transform.	Unit-4: Centre of Gravity: Centroid of weighted points, Centre of Gravity, Centre of gravity of some uniform bodies. • Practical	Linear dependence & independence, A formula for Wronskian,



Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad (M.S.)

TEACHING PLAN(Second Term)

Year (2023-24)

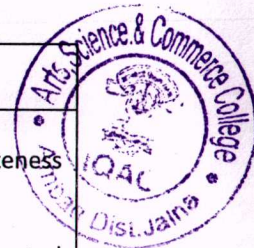


Name of the teacher: **Dr.Katare R. S.**

Department: **Mathematics**

Month	Class:B.Sc.(F.Y.) Semester:Second Paper Name: Number theory Paper Code :- MAT-201	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: Complex Analysis Paper Code :- MAT-404	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: Mechanics – II Paper Code :- MAT-403	Class:B.Sc.(T.Y.) Semester:Sixth Paper Name: Real Analysis-II Paper Code :- MAT- 601
November	Unit-1:Divisibility Introduction Divisibility, primes(Theorem 1.19) only.	Unit-1:Complex Numbers Complex numbers, Geometrical representation of imaginary numbers. Argand diagram, Modulus and argument, Exponential and circular functions of complex.	Unit-1: Kinematics and Dynamics of a Particle in two Dimensions Introduction, Definitions, Velocity and acceleration in terms of vector derivatives, Tangent and unit vector along the tangent, Rate of change of unit vector moving in a plane, Curvature, principal normal, Tangential and normal components of velocity and acceleration, Angular speed and angular velocity, Radial and transverse components of velocity and acceleration, Areal speed and areal velocity. • Practical	Unit -1: Limits in Metric Spaces: Metric spaces, Limits in metric spaces.
December	Unit-2: Congruence: Congruences, solution of congruences, The Chinese Remainder Theorem,	Unit-2 :Functions of Complex Variables Introduction, Complex variable, Function of complex variable, Limits of complex variable, Continuity, Differentiability, Analytic functions, The Necessary and sufficient conditions for analytic functions, Cauchy Riemann equations in polar form. Orthogonal curves, Harmonic functions, Method to	Unit-2: Kinetics of a Particle Introduction, Newton's law of motion, Matter, Linear momentum, Angular momentum. An Impulsive force and its impulse, Conservation of linear momentum, Impact of two bodies, Work, Energy, Scalar point function, Vector point function, Field of force, Conservative field of force	Unit-2: Continuous Functions on Metric Spaces: Functions continuous on metric spaces, open sets, Closed sets. [1].

		find a conjugate functions.	Practical.	
January	Unit-3: Some Functions of Number Theory Greatest integer Function, Arithmetic Function, The Mobius Inversion Formula	Unit-3: Complex Integration Complex integration. Simply connected region, Cauchy's integral theorem. Cauchy's integral formulae, Morera's theorem, Cauchy's inequality. Liouville's theorem.	Unit-3: Motion of a Projectile and Motion in a Resisting Medium Rectilinear motion, Motion under gravity, Projectile, Motion of projectile, Range on an inclined plane, Parabola of safety, Projectile to pass through a given point, Motion in a resisting medium, Practical	Unit-3: Connectedness, Completeness and Compactness: More about open sets, connected sets, bounded sets and totally bounded sets, Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces, Uniform continuity.
February	Unit-4: The Equation $ax+by=c$, Simultaneous equation	Unit - 4: Singularities and Residues Singular point, Residues, Method of finding residues.	Motion of a body moving under gravity and in a medium whose resistance varies as velocity.	Unit-4: Calculus: Sets of measure zero, Definition of Riemann Integral, Existence of Riemann Integral, Fundamental Theorem of Calculus.
March		Residue theorem, Evaluation of real definite integrals by contour integration, Integration round the unit circle.	Unit-4: Central Orbits Definitions. Areal velocity in central orbit, Differential equation of central orbit, Apses, Law of force, Pedal equation of some curves. Practical	Unit-5: Fourier Series: Introduction.





Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad(M.S.)

TEACHING PLAN (First Term)

Year(2023-24)

Name of the teacher: **MR. Thokare M. P.**

Department: **Mathematics**

Month	Class:B.Sc. (F.Y.) Semester:First Paper Name:Differential Calculus Paper Code :- MAT- 101	Class:B.Sc.(T.Y.) Semester:Fifth Paper Name: Abstract Algebra- I Paper Code :- MAT- 502	Class:B.Sc.(S.Y.) Semester:Third Paper Name: Differential Equation Paper Code :- MAT- 301	Class:B.Sc. (T.Y.) Semester:Fifth Paper Name: ODE-I Paper Code :- MAT- 504
June	Unit -1: Sets and Real sequence: Introduction, limit points of a set, closed set, sequence, limit point of a sequence, limit inferior and superior, convergence of sequence, Non-convergent sequence.	Prerequisite: Sets, Binary Relation and its types, Mapping and its types, Algebraic Structure.	Unit-1: Equation of the First Order and of the First Degree: Ode and Pde, Order and Degree, Solution and constant of Integration, Derivation of Differential equation, Equation of the first order and first Degree, Equation of the form Equation homogenous in x and y,	Prerequisite: Complex Numbers
July	Unit-2: Function of a single variable: Limits, Continuous Function, Function continuous on a closed interval, Uniform continuity, the derivative, the derivative, increasing and decreasing Function, Roll's theorem, Lagrange's Mean value theorem, Cauchy's Mean value Theorem.	Unit-1: Group Theory: Definition of group, Some examples of groups, Some preliminary lemmas, Subgroups,	Non-Homogenous equation of the first degree in x and y, Exact differential equations, Condition that an differential equation to be an exact, Rules for finding the solution of an exact differential, Integrating factors, The numbers of integrating factors are infinite, Integrating factors found by inspections, Rules for finding Integrating factors, Rules I & II, Rule III & IV, Rule V, Linear equation, Equation reducible to the linear form.	Unit-1: Preliminaries: Introductions, Functions, Polynomials, Complex series and the exponential function, Determinants
August	Unit-3: Successive Differentiation: Higher order	A counting Principle, Normal Subgroups and Quotient groups, Homomorphism, Automorphism.	Unit-2: Equation of First order but not of First Degree:	Unit-2: Linear Equations of First Order: Introduction, Differential



	derivatives, calculation of nth derivative some standard Result, Determinants Of nth derivative (some standard Result), Leibnitz's Theorem.		Equations that can be resolved into component equations of the first degree, Equations that can't be resolved into component equations, Equations solvable for y, Equation solvable for x, Equations that do not contain x, that do not contain y, Equations homogeneous in x and y, Equations of first degree in x & y: Clairaut's equation.	Equations, Problems associated with differential equations, Linear equations of the order
September	Unit-4: Vector Differentiation: Vector Function of a single scalar variable, Continuity, Differentiability, Derivative of the sum, of vectors, Derivative of the scalar product, Derivative of the cross product, Derivative of scalar triple product, Derivative of vector triple product, Scalar and vector field	Unit-3: Ring Theory: Definition and examples of Rings, Some Special Classes of Rings, Ideals and Quotient Rings,	Unit-3: Linear Equations With Constant Coefficients: Linear equations defined, The Complementary Function, The particular integral. The complete solution, The linear equation with constant coefficients and second member zero, Case of the auxiliary equation having equal roots, Case of the auxiliary equation having imaginary roots, The symbol D, Theorem concerning D, Another way of finding the solution when the auxiliary equation has repeated roots, The linear equation with constant coefficients and a second member a function of x, The symbolic function $1/f(D)$, Methods of finding the particular integral. Short method of finding the particular integrals in certain cases: Integral corresponding to a term of the form e^{ax} , $\sin ax$ or $\cos ax$ in the second member, Integral corresponding to a term of the form $e^{ax} \sin bx$ and $e^{ax} \cos bx$ in the second member.	Unit-4: Linear Equations with Constant Coefficient: Introduction, second order homogeneous equation, Initial value problems for second order equations.
October	Level surface, vector Function of a two or more variables, partial derivative of a vector, curl properties of curl.	More ideals and quotient Rings, Polynomial Rings.	Unit-4: Linear Equations with Variable Coefficients: The homogeneous linear equation first method of solution, Second method of solution: (A) To find the complementary function, (B) To find the particular integral, The symbolic function (0) and $1/(0)$, Method of finding the particular integral, Integral corresponding to a term of the form a^x in the second member. Equation reducible to the homogeneous linear form.	Linear dependence & independence, A formula for Wronskian,

TEACHING PLAN (Second Term)

Year(2023-24)



Name of the teacher: **Mr. Thokare M. P.**

Department: **Mathematics**

Month	Class:B.Sc.(F.Y.) Semester:Second Paper Name: Integral Calculus Paper Code :- MAT - 202	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: PDE Paper Code :- MAT - 402	Class:B.Sc.(S.Y.) Semester: Sixth Paper Name: Abstract Algebra-II Paper Code :- MAT - 602	Class:B.Sc.(T.Y.) Semester:Sixth Paper Name: ODE- II Paper Code :- MAT - 604
November	Unit-1: Integration of Rational and Irrational Algebraic Fractions: Rational fractions, Non-repeated linear factors in the denominator, Repeated 1 linear factors, General Case, Integration of Integration of particular form of fraction	Unit-1: Partial differential equation (PDE), Order and method of forming PDE, solution of equations by direct integration, Lagrange's linear equations, method of multipliers.	Unit-1: Vector Spaces: Elementary basic concepts	Unit -1 Linear Equations with Variable Coefficients: Introduction, Initial value problems for the homogeneous equation, Solution of homogeneous equation.
December	Unit-2: Reduction Formulae: Definition Walli's formula, Reduction formulae, Trigonometrical transformation	Unit-2: Partial differential equations non-linear in p and q Charpit's method. Linear- homogeneous PDE of order with constant coefficients, Rules for finding the complementary functions, Rules for finding the particular integral.	Unit-2: Modules: Elementary basic concepts	The nonhomogeneous equation, homogeneous equation with analytic coefficients, the Legendre equation
January	Unit-3: Definite Integrals and Rectification: The integral as the limit of sum, Integration from definition as the limit of a sum, Areas, Length of curves, Remarks, Intrinsic equations.	Unit-3: Non-homogeneous linear equations, Monge's method, Method of separation of variables	Unit-3: Linear independence and Bases	Unit-2: Linear Equations with Regular Singular Points: Introduction, The Euler equation, Second order equations with regular singular points- an example,
February	Unit-4: Volumes and Surfaces of Solids of Revolution: Definitions, Volumes of solids of revolution Cartesian form, volumes of revolution parametric form, Surface of solids of revolution Cartesian form, Surface of solids of	Equations of vibrating strings, Solution of the wave equation by D'Alembert's method.	Unit-4: Dual Spaces	Second order equations with regular singular points- the general case, The Bessel equation

	revolution parametric form.			
March	Unit-5: Integral Transformations: Line integral, other types of line integrals, surface integral, other types of surface integral, evaluation of surface integrals, volume integral, conservative field, Gauss Divergence Theorem, Deductions from Gauss Theorem, Stoke's Theorem, More deductions from Gauss and Stokes's Theorem, Green's	Unit-4: One-dimensional heat flow, Two-dimensional heat flow, Laplace equations in polar co-ordinates, Transmission line equations.	Unit-5: Innerproduct spaces,	



Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad(M.S.)

TEACHING PLAN (First Term)

Year(2023-24)



Name of the teacher: **MR. Thokare M. P.**

Department: **Mathematics**

Month	Class: B.Sc. (F.Y.) Semester: First Paper Name: Differential Calculus	Class: B.Sc.(T.Y.) Semester: Fifth Paper Name: Abstract Algebra- I	Class: B.Sc.(S.Y.) Semester: Third Paper Name: Differential Equation	Class: B.Sc. (T.Y.) Semester: Fifth Paper Name: ODE-I
June	Unit -1: Sets and Real sequence: Introduction, limit points of a set, closed set, sequence, limit point of a sequence, limit inferior and superior, convergence of sequence, Non-convergent sequence.	Prerequisite: Sets, Binary Relation and its types, Mapping and its types, Algebraic Structure.	Unit-1: Equation of the First Order and of the First Degree: Ode and Pde, Order and Degree, Solution and constant of Integration, Derivation of Differential equation, Equation of the first order and first Degree, Equation of the form $f_1(x)dx + f_2(y)dy = 0$, Equation homogenous in x and y,	Prerequisite: Complex Numbers
July	Unit-2: Function of a single variable: Limits, Continuous Function, Function continuous on a closed interval, Uniform continuity, the derivative, the derivative, increasing and decreasing Function, Roll's theorem, Lagrange's Mean value theorem, Cauchy's Mean value Theorem.	Unit-1: Group Theory: Definition of group, Some examples of groups, Some preliminary lemmas, Subgroups,	Non-Homogenous equation of the first degree in x and y, Exact differential equations, Condition that an differential equation to be an exact, Rules for finding the solution of an exact differential, Integrating factors, The numbers of integrating factors are infinite, Integrating factors found by inspections, Rules for finding Integrating factors, Rules I & II, Rule III & IV, Rule V, Linear equation, Equation reducible to the linear form.	Unit-1: Preliminaries: Introductions, Functions, Polynomials, Complex series and the exponential function, Determinants

August	Unit-3: Successive Differentiation: Higher order derivatives, calculation of nth derivative some standard Result, Determinants Of nth derivative (some standard Result), Leibnitz's Theorem.	A counting Principle, Normal Subgroups and Quotient groups, Homomorphism, Automorphism.	Unit-2: Equation of First order but not of First Degree: Equations that can be resolved into component equations of the first degree, Equations that can't be resolved into component equations, Equations solvable for y, Equation solvable for x, Equations that do not contain x, that do not contain y, Equations homogeneous in x and y, Equations of first degree in x & y: Clairaut's equation.	Unit-2: Linear Equations of First Order: Introduction, Differential Equations, Problems associated with differential equations, Linear equations of the order
September	Unit-4: Vector Differentiation: Vector Function of a single scalar variable, Continuity, Differentiability, Derivative of the sum, of vectors, Derivative of the scalar product, Derivative of the cross product, Derivative of scalar triple product, Derivative of vector triple product, Scalar and vector field	Unit-3: Ring Theory: Definition and examples of Rings, Some Special Classes of Rings, Ideals and Quotient Rings,	Unit-3: Linear Equations With Constant Coefficients: Linear equations defined, The Complementary Function, The particular integral. The complete solution, The linear equation with constant coefficients and second member zero, Case of the auxiliary equation having equal roots, Case of the auxiliary equation having imaginary roots, The symbol D, Theorem concerning D, Another way of finding the solution when the auxiliary equation has repeated roots, The linear equation with constant coefficients and a second member a function of x, The symbolic function $1/f(D)$, Methods of finding the particular integral. Short method of finding the particular integrals in certain cases: Integral corresponding to a term of the form e^{ax} , $\sin ax$ or $\cos ax$ in the second member, Integral corresponding to a term of the form $e^{ax} \sin bx$ and $e^{ax} \cos bx$ in the second member.	Unit-4: Linear Equations with Constant Coefficient: Introduction, second order homogeneous equation, Initial value problems for second order equations.
October	Level surface, vector Function of a two or more variables, partial derivative of a vector, curl properties of curl.	More ideals and quotient Rings, Polynomial Rings.	Unit-4: Linear Equations with Variable Coefficients: The homogeneous linear equation first method of solution, Second method of solution: (A) To find the complementary function, (B) To find the particular integral, The symbolic function (0) and $1/(0)$, Method of finding the particular integral, Integral corresponding to a term of the form a^x in the second member. Equation reducible to the homogeneous linear form.	Linear dependence & independence, A formula for Wronskian,



Matsyodari Shikshan Sanstha's, Matsyodari Arts, Science and Commerce College, Ambad(M.S.)

TEACHING PLAN (Second Term)

Year(2023-24)



Name of the teacher: **Mr. Thokare M. P.**

Department: **Mathematics**

Month	Class:B.Sc.(F.Y.) Semester:Second Paper Name: Integral Calculus	Class:B.Sc.(S.Y.) Semester:Fourth Paper Name: PDE	Class:B.Sc.(S.Y.) Semester: Sixth Paper Name: Abstract Algebra-II	Class:B.Sc.(T.Y.) Semester:Sixth Paper Name: ODE- II
November	Unit-1: Integration of Rational and Irrational Algebraic Fractions: Rational fractions, Non-repeated linear factors in the denominator, Repeated 1 linear factors, General Case, Integration of Integration of particular form of fraction	Unit-1: Partial differential equation (PDE), Order and method of forming PDE, solution of equations by direct integration, Lagrange's linear equations, method of multipliers.	Unit-1: Vector Spaces: Elementary basic concepts	Unit -1 Linear Equations with Variable Coefficients: Introduction, Initial value problems for the homogeneous equation, Solution of homogeneous equation.
December	Unit-2: Reduction Formulae: Definition Walli's formula, Reduction formulae, Trigonometrical transformation	Unit-2: Partial differential equations non-linear in p and q Charpit's method. Linear- homogeneous PDE of order with constant coefficients, Rules for finding the complementary functions, Rules for finding the particular integral.	Unit-2: Modules: Elementary basic concepts	The nonhomogeneous equation, homogeneous equation with analytic coefficients, the Legendre equation
January	Unit-3: Definite Integrals and Rectification: The integral as the limit of sum, Integration from definition as the limit of asum, Areas, Length of curves, Remarks, Intrinsic equations.	Unit-3: Non-homogeneous linear equations, Monge's method, Method of separation of variables	Unit-3: Linear independence and Bases	Unit-2: Linear Equations with Regular Singular Points: Introduction, The Euler equation, Second order equations with regular singular points- an example,
February	Unit-4: Volumes and Surfaces of Solids of Revolution: Definitions, Volumes of solids of revolution Cartesian form, volumes of revolution parametric form,	Equations of vibrating strings, Solution of the wave equation by D'Alembert's method.	Unit-4: Dual Spaces	Second order equations with regular singular points- the general case, The Bessel equation

	Surface of solids of revolution Cartesian form, Surface of solids of revolution parametric form.			
March	Unit-5: Integral Transformations: Line integral, other types of line integrals, surface integral, other types of surface integral, evaluation of surface integrals, volume integral, conservative field, Gauss Divergence Theorem, Deductions from Gauss Theorem, Stoke's Theorem, More deductions from Gauss and Stokes's Theorem, Green's	Unit-4: One-dimensional heat flow, Two- dimensional heat flow, Laplace equations in polar co-ordinates, Transmission line equations.	Unit-5: Innerproduct spaces,	

Arts, Science & Commerce College, Ambad Dist.Jalna

Annual Teaching Plan (Year: 2023-2024)

Name of Teacher: Prof. Mr. Kokre D.K.

Department Of Computer Science



Month	Class: B.Sc. F.Y	Class: B.Sc. S.Y	Class: B.Sc. TY
	Paper No: Computer Fundamental (CMP-111)	Paper No: Data Structure(CMP-311)	Paper No: Software Engineering(CSO15)
	Semester: I	Semester: III	Semester: V
Jun-2023	Introduction to Computers: Definition of computer, history and generation of computers, characteristics of computer, classification of computers, fundamental block diagram of computer: CPU input output unit, input devices, and output devices, types of printers, memory, CD ROM hard disk, and floppy disc.	Introduction to data structures and algorithm analysis: Introduction, need of data structure, Definition -data and information data type, data object, ADT, data structure, types of data structures, algorithm analysis: space and time complexity, graphical understanding of the relation between, different functions of n, example of linear loop, logarithmic quadratic loops etc. Best, worst, Average case analysis asymptotic notations big O, Omega, Theta.	Software and Software Engineering What is Software, Characteristics of software, categories of Software, attributes of WebApps, software Engineering, Software Process, Essence Software Engineering Practice, General Principles, Software Myths.
Jul-2023	Software: Definition of software, types of software-system software, application software and utility software, computer languages definition, types of programming languages, language processor: Assemblers, interpreters, compiler and editors, introduction to operating system, types of operating system, function of operating system examples. MS dos internal and external commands.	Array: ADT of array, operation array applications- searching sequential search variations sentinel search, probability search, ordered list search, binary search comparison of searching methods, sorting terminology internal, external, and stable in place sorting. Comparison base sorting lower bound on comparison based sorting methods bubble sort, insertion sort, selection sort, algorithm design strategies- divide and conquer strategy, merge sort, quick sort, complexity analysis of sorting methods.	Software Process and Process Models Software process Model Process Flow, Process Models, Waterfall model, Incremental Process Model.
Aug-2023	Internet, world wide web: introduction to internet, internet access, internet basics, protocols -TCP /IP HTTP, FTP addressing, word wide web pages and HTML web browser, searching for information search engine, Internet chat, application of internet, advantages and disadvantages of internet.	Linked list: list as a data structure, differences with array, dynamic implementation of linked list, internal and external pointers, types of linked list: singly, doubly, circular.	Evolutionary Process Models, Concurrent Models, Specialized Process Models, The Unified Process, Personal and Team Process Models, Product and Process

Sep -2023	Number System and Arithmetic: decimal number system, binary number system, decimal to binary conversion, binary to decimal.	Operations on linked list – create, traverse, insert, and delete, search, sort, and reverse concatenate, merge, and time complexity of operations. Application of linked list, polynomial representation Addition of two polynomials, Generalized linked list: concept, representation, multiple variable polynomial representation using generalized list.	Agile Introduction to Agility, Agility and the Cost of Change, Agile Process, Agility Principles, Human Factors, Extreme Programming (XP), XP Values, XP Process, Industrial, Critics of XP
Oct-2023	binary arithmetic: binary addition , subtraction, multiplication and division hexadecimal number system, hexadecimal to binary , binary to hexadecimal , hexadecimal to decimal conversion , binary subtraction using one complement to complement method.	Stack and queue :Introduction of stack operations : init(),push(),pop(), is empty (), is full (), peek(), time complexity of operations. implementation static and dynamic with comparison application of stack, expression types infix, prefix, postfix evaluation of postfix. Introduction of queue operations init(),enqueue(),dqueue(), is empty (),isfull(),peek(), time complexity of operations differences with stack. types of queue, linear queue, circular queue, priority queue, double ended queue.	Principles That Guide Practice Principles That Guide Process, Principles That Guide Practice, Communication Principles, Planning Principles, Modeling Principles, Construction Principles, Deployment Principles



Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2023-2024)

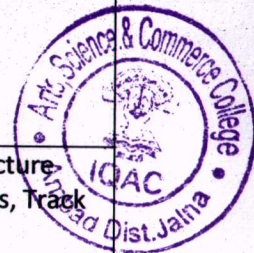
Name of Teacher: Prof. Kokre D. K.

Department Of Computer Science



Month	Class: B.Sc-F.Y.	Class: B.Sc-S.Y.	Class: B.Sc-T.Y.	Class: B.Sc-T.Y.
	Paper No: Operating System(CMP-112)	Paper No: Advance C Programming(CMP-312)	Paper No: Web Designing(CSO16)	Paper No: VB.NET(CSO16)
	Semester: I	Semester: III	Semester: V	Semester: V
Jun-2023	Introduction to software: software: definition, classification of software, operating system as the main component of system software.	Functions: user define functions, introduction, elements of UDF categories of UDF, no argument no return value, arguments but no return value, no arguments but returns value, arguments with return value, recursion, nesting functions, variable scope, visibility and lifetime in function, storage classes.	Introducing HTML5 Understanding HTML, XHTML, and HTML5, Introducing semantic markup, Syntax, Attributes, Working with elements, Creating an HTML document Embedding content, Embedding HTML by using inline frames, Working with hyperlinks, Adding images to your HTML document, Embedding plug-in content	Introduction: Introduction to .NET and .NET Framework, Difference between CUI & GUI, Event Driven Programming, the VB IDE, Operators, Conditional statements and looping statements. Sub Procedure, functions and exception handling
Jul-2023	Operating system fundamental : operating systems: OS as a resource manager, structure of operating system, evolution of OS, OS functions, characteristics of modern OS, types of OS early system, simple batch systems, multiprogramming batch systems, time sharing system, personal computer systems, parallel systems, distributed systems, real time systems.	Structures union : Structures : defining a structure, accessing a structure variable, operations on structure members, copying and comparing variables, array of structure arrays within a structures, unions: introduction example	Advances of HTML5 HTML5 Layout container Format using element Working with Tables: creating regular and irregular tables, heading, columns and rows, captions, header, footer.	Windows Forms : General Properties, Events handling events like mouse, keyboard, Types of forms MDI, adding removing controls at run time
Aug-2023	IO management IO management IO system components: IO devices, IO hardware, application IO interface, secondary storage structure, disc fundamental, disc scheduling, disk management, device characteristics input and output devices, storage devices,	Pointer: definition and concept: advantage of using pointer, pointer arithmetic, pointer array of pointers, pointers and functions, dynamic memory allocation memory allocation function malloc(), calloc(), realloc(), free().	Introducing JavaScript Basic of JavaScript JavaScript Variables, Operators & Its Precedence, Special Values, Predefined Built-In functions, Functions Declaration & Call String Functions Conditions and looping structure, Inline JavaScript & External JavaScript	Controls : The control class, Text Box, Rich Text Box, Label, Buttons, Checkbox, Radio Button, Panels, Group Boxes

	device allocations , IO scheduler , introduction to virtual devices ,dedicated devices, shared devices and virtual devices, generalized strategies.			
Sep -2023	Process management and memory management concept of process: process state , operation on processes, thread CPU scheduling, types of schedulers, criteria for scheduling ,scheduling algorithms , process synchronization, need for synchronizations, critical section, hardware synchronization, monitors.	Files and preprocessors: files, concepts of file management, files functions , fopen(), fclose(), fprintf(), fscanf(), fseek(), ftell(), rewind(), putc(), getc(), putw(), getw(), Error handling functions , command line argument .	Advances in JavaScript Object in JavaScript, Concept of array, how to use it in JavaScript, types of an array, array methods DOM Concept in JavaScript, DOM Objects, DOM Search Methods Event handling in JavaScript: Capturing & Bubbling, Subscribing, Unsubscribing and Cancelling Event, Windows Event, Keyboard and Mouse Events.	List Box, Combo Box, Picture Box, Scroll Bars, Splitters, Track Bars, Pickers, Timer.
Oct-2023	problem of synchronization, deadlocks : concept of deadlock , deadlock modelling, methods for handling deadlock, address binding, logical vs physical address space, memory allocation , paging , segmentation, segmentation and paging Tutorial and Assignment	Preprocessors: Types of preprocessors, macro substitutions directives, file inclusion directives, compiler control directives.	Cascading Style Sheet Introduction to CSS3 Defining and Applying a Style, Inline, Embedded and External Style Sheet. Selectors: element, id and class selector, grouping selector, attribute, Specificity and cascading CSS properties: Color, box Model, border, padding, margin, float, clear	Object-Oriented Programming : Class and Object, Class Vs. Object Members, Creating Classes, Objects, Structures, Modules, Constructors, Data Members, Methods, Properties, Event.

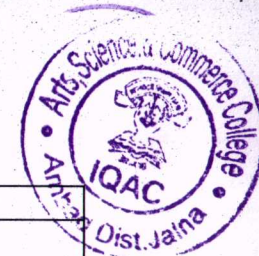


(Signature)
Principal

Miss S. Arts, Science & Commerce College
Ambad Dist. Jalna-431204

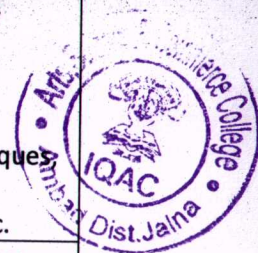
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संगठन कराल

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)



Month	Class: B.Sc-F.Y	Class: B.Sc-S.Y.	Class: B.Sc-T.Y	Class: B.Sc-T.Y
	Paper No: Basic C Programming (CMP-212)	Paper No: Object oriented programming using C++(CMP-412)	Paper No: Ethics & Cyber law(CSO20)	Paper No: E-Commerce(CSO20)
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Dec- 2023	Introduction An overview of c, history of programming language type, c as structured language, features of c, data types int, char, float, double, declaration and initialization, examples. character set C, token, identifier and keywords, variables, constant and its types, integer constant, floating point constant, character constant, string constants, operators: arithmetic, relational, logical unary operators, increment and decrement, assignment and conditional operator.	Introduction of OOP: procedural vs object oriented programming, basic concepts of object oriented programming, class, object, data abstractions, encapsulation inheritance, polymorphism, dynamic binding, message passing, benefits and application of OOP.	Basic Concepts of Technology and Law, Understanding the Technology of Internet, Scope of Cyber Laws, Cyber Jurisprudence. Law of Digital Contracts The Essence of Digital Contracts	Introduction, IT and business, E-commerce: Concepts Electronic Communication, PCs and Networking, E-mail, Internet and intranets. EDI to E-commerce, EDI, UN/EDIFACT
Jan-2024	C program and IO statements structure of c program, compilation and execution of c program, I/O introduction, formatted input output function: scanf & printf, escape sequence characters.	Introduction to c++: history and Overview of c++, c++ program structure, reference variables, scope resolution operator, member dereferencing operators, new and delete, cin and cout.	. The System of Digital Signatures. The Role and Function of Certifying Authorities. The Science of Cryptography, E-Governance, Cyber Crimes and Cyber Laws. Introduction to Intellectual Property.	Concerns for E-commerce Growth, Internet bandwidth, Technical issues, Security issues. India E-commerce Readiness, Legal issues, Getting started.

Feb-2024	Control and iterative statements simple If, nested if if else, else if ladder, switch case statement, the conditional expression, (? : operator) while and do while loop, and for loop, break and continue statement, go to statement	Functions in c++ : function prototype, call by reference (using reference variable), return by reference, inline function, default arguments, const arguments, function overloading, different numbers and different kinds of arguments.	Information Technology Act 2000 Cyber Law Issues in E-Business Management. Major issues in Cyber Evidence Management	Security Technologies: Encryption, Symmetric key Encryption, Public key encryption, Public key encryption using digital Signatures. Hashing techniques Certification and key Distribution, Cryptographic.
Mar-2024	Arrays introduction declaration and initialization, accessing array elements, memory representation of array, one dimension and multidimensional arrays, character array, introduction to string. Tutorial and Assignment	Objects and classes : specifying a class, private and public, defining member functions, nesting of member functions, object as a data types, memory allocations for objects, static data members and member functions, array of objects, objects as a function argument, returning objects friend functions and its characteristics, constructors and destructors introduction, default and parameterized constructors, multiple constructors in a class, copy constructor, destructors Tutorial and Assignments	Cyber Law Compliance Audit, The Ethics of Computer Security. Relevant Rules Notifications, Information Technology (Amendment) Act, 2008.	The elements of E-commerce. SSL-Secure Socket Layer, SET-Secure Electronic Transaction Protocol for Credit card payment, E-Cash, E-check, Smart cards. Electronic Payment System: Digital Cash, Digital Wallets, Digital checking payment systems, Electronic Billing, Wireless payment systems. Software Package: PGP e-mail encryption software



Arts, Science & Commerce College, Ambajalgaon Dist. Jalna

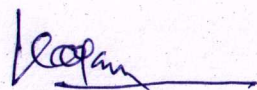
Annual Teaching Plan (Year: 2023-2024)

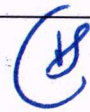


Month	Class: B.Sc –F.Y	Class: B.Sc-SY	Class: B.Sc-T.Y.
	Paper No: Digital Electronic(CMP-211)	Paper No: DBMS with SQL(CMP-411)	Paper No: Data Communication and Networking(CSO19)
	Semester: II	Semester: IV	Semester: VI
Dec- 2023	Boolean algebra and logic gates: postulates of Boolean algebra theorems of Boolean algebra :complementation, commutative, AND , OR, associative , distributive, absorption law ,De morgan's theorem, reducing Boolean expressions, logic gates: AND, OR, NOT, Ex-OR, Ex-NOR, NAND as a universal building block logic diagrams of Boolean expression Boolean expressions for logic diagrams.	Introduction: General introduction to database system; database: DBMS distinction, approaches for building a database, data models, database management system, three schema architecture of database, challenges in building a DBMS, various components of DBMS.	Introduction Communication System, Components of communication system, Computer network Advantage and applications of computer n/w. point-to-point and multipoint line configuration, LAN, MAN and WAN. Analog and Digital signals, Data Transmission: Parallel and Serial, Synchronous and Asynchronous transmission, Transmission Mode: Simplex, half-duplex and full-duplex. Network Topologies Mesh, Star, Tree, Bus and Ring and Hybrid Topology (Advantages and disadvantages of each)
Jan-2024	Combinational and sequential circuit Introduction of minimization techniques, Minterms and Maxterms K-MAP, K-MAP for 2, 3 and 4 variable, combinational circuit and sequential circuit, introduction half adder, half subtractor, full adder, full subtractor ,multiplexer ,de-multiplexer, encoder, decoder , BCD to decimal decoder , 2:4 de-multiplexer , 4 line to 1 line multiplexer.	Data models: ER –model, conceptual data modelling –motivation, entities, entity types , various types of attributes relationship, relationship types , E/R diagram notations ,examples	Transmission media Guided and unguided media, Twisted-pair, UTP and STP cable, coaxial cable, Optical Fiber cable, Radio waves, Microwaves, Satellite Communication (Transmission characteristics and advantages of each type)

Feb-2024	Flip flops: Introduction: RS FF, clocked RS FF, D flip flops, Triggering reset and clear, JK FF, TFF, Race around condition.	Structured Query Language: Introduction, data definition in SQL, table key and foreign key definitions update behaviors, Querying in SQL- basic select- from -where block and its semantics, nested Queries -correlated and uncorrelated, notion of aggregation, aggregation functions group by and having clauses, embedded SQL.	Modulation & Multiplexing Concept or modulation and demodulation, Digital-to-analog conversion, Amplitude Shift Keying (ASK)/AM, Frequency Shift Keying (FSK)/FM, Phase Shift keying (PSK)/PM.
Mar-2024	Counters introduction : Asynchronous /ripple counter modulus counter MOD- 12 counter, synchronous counter, synchronous serial and synch parallel counter, bid counter ring counter. Tutorial and Assignment	Data normalizations: dependencies and normal forms- importance of good schema design, problems encountered with bad schema designs, motivation for normal forms, definition of 1 NF and 2 NF, data storage, indexes and transactions : file organizations, primary, secondary index structures and various index structure. Tutorial and assignment	The Mobile Telephone System: First Generation(1G), Second Generation(2G), Third Generation(3G), Internet over cable, Spectrum Allocation, cable Modem, ADSL Versus Cable




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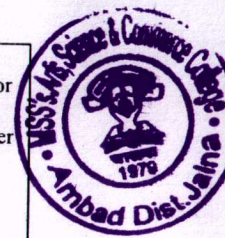
Department of Botany

Term: Frist

SEM: I/III/V

Name: Dr. D. S. Ghogare

MONTH	CBC&GS Patterns 2022-23				Pattern 2013	
	Class: FY	Class: FY	Class: SY	Class: SY	Class: TY	Class: TY
	BOT 112 Paper: II (TH)	BOT 121 Lab Course 1	BOT 311 Paper: V (TH)	BOT 321 Lab Course 3 (PR)	Paper: XV (TH)	Paper: XVII (PR)
	Semester: I	Semester: I	Semester: III	Semester: III	Semester: V	Semester: V
JUN-23			Taxonomy of Angiosperms Unit – 1 1. Salient features, origin and evolution of Angiosperms 2. Bentham and Hooker's system of classification up to series level, its merits and demerits.		Cell Biology & Molecular Biology Unit – 1 Cell: Structure of Prokaryotic cell (Bacterial cell) and Eukaryotic cell 2. Cell wall: Structure and functions	
JULY-23	Morphology of Angiosperms Unit – 1 Basic body plan of flowering plant, modular type of growth, diversity of plant forms: Herbs, Shrubs, Trees, Climbers; annuals, biennials and perennials. Morphology of vegetative organs: Root: Characteristics, functions, regions of root, types – tap and adventitious, modification of root for storage, mechanical support (stilt root) and vital functions (Pneumatophore).	Morphology of Angiosperms Study of the following with the help of temporary mountings, permanent slides, charts, models, specimens and bio visual aids. *Study of root and its modifications: a) Tap root b) Adventitious root c) Storage roots d) Stilt root e) Respiratory root.	3. Taxonomy in relation to anatomy, embryology, palynology, ecology and cytology 4. Concept of Binomial Nomenclature and its advantages 5. Concept of genus, species and epithet. 6. Herbaria and Botanical Gardens. Unit:2 Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance 1. Annonaceae	Taxonomy of Angiosperms Study of locally available plants of the following families: Annonaceae	Cell organelles: Structure and functions of Cell organelles – Golgi complex, Endoplasmic reticulum, Lysosomes 3. Nucleus: Ultra structure, (nuclear membrane, nucleolus, chromatin material, nucleoplasm), Functions of nucleus.	1. Study of the cell structure from onion leaf or <i>Tradescantia</i> leaf 2. Preparation of cytological (AA, FAA etc.) fixatives and stains (acetocarmine, acetoorcein). 3. Study of electron micrographs of viruses, bacteria and cyanobacteria
AUG-23	Stem: Characteristics, functions, modification – underground, sub aerial and aerial Morphology of vegetative organs: Leaf: Parts of typical leaf,	*Study of stem and its modifications: a) Underground stem b) Sub aerial stem c) Aerial Stem Study of leaf and its diversity:	Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance ii. Malvaceae iii. Leguminosae	Study of locally available plants of the following families: ii. Malvaceae iii. Leguminosae Fabaceae	1. Cell division: a) Cell cycle -G1 phase, S phase, G2 phase and M phase b) Mitosis – definition, process and	4. Study of electron micrographs of eukaryotic cell and different cell organelles 5. Preparation of slides for the study of mitosis (root



	phyllotaxy, types (simple and compound), diversity in shape and size, venation and modifications of leaf. Morphology of reproductive organs: Inflorescence: Racemose, cymose and special types.	a) Types of leaf (Simple, Compound) b) Shape and size c) Venation d) Phyllotaxy e) Modifications	Fabaceae (Papilionaceae) Caesalpiniaceae Mimosaceae	(Papilionaceae) Caesalpiniaceae Mimosaceae	significance. c) Meiosis-definition, process and significance. 2. Nucleic acids: DNA: Definition, structure, chemical composition (nitrogenous bases, purines, pyrimidines, nucleosides, nucleotides, phosphate and sugars) Watson and Crick's model, Z - DNA, B - DNA, functions of DNA Replications of DNA – conservative, semi conservative and dispersive.	tips of onion) 6. Preparation of slides for the study of meiosis (<i>Rhoeo</i>, <i>Aloe</i> or onion flower buds)
SEP-23	Flower: Definition, parts of typical flower, forms of thalamus, androphore, gynophore, gynandrophore, insertion of floral whorls on thalamus (hypogyny, perigyny and epigyny), structure, function and modification of calyx, corolla, androecium, gynoecium, aestivation and placentation.	Study of inflorescence: a) Racemose b) Cymose c) Special Study of flowers: a) Typical flower (<i>Hibiscus</i> / <i>Datura</i>) b) Hypogynous, Perigynous and Epigynous c) Aestivation d) Forms of corolla – cruciform, papilionaceous, infundibuliform and bilabiate e) Parts of typical stamen, adhesion and cohesion. f) Parts of typical carpel and placentation	Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance Apocynaceae Solanaceae Acanthaceae Lamiaceae (Labiatae) Nyctaginaceae	Study of locally available plants of the following families: Apocynaceae Solanaceae Acanthaceae Lamiaceae (Labiatae) Nyctaginaceae	RNA: Structure, types and functions Unit-3 1) Chromosome: Definition, morphology-size, shape, number, Ultra structure – chromatid, chromonema, chromomere, centromere, kinetochore, secondary constriction, satellite, telomere, heterochromatin, euchromatin, Nucleosome model (Woodlock 1973), chemical composition, Functions of chromosome, Giant chromosomes-polytene and lampbrush chromosome. 2) Chromosomal aberrations: a) Structural-deletion, duplication, inversion and translocation	7. Preparation of idiogram from the given micrograph of karyotype 8. Observation of giant chromosomes in <i>Chironomus</i> larvae 9. Preparation of wool models of mitosis, meiosis, cell structure, Chromosome, DNA and RNA.
OCT-23	Fruit: Types of fruits Fruit and Seed dispersal strategies.	Study of flowers with respect to pollination mechanism: <i>Calotropis</i>, <i>Ocimum</i>, <i>Salvia</i>, <i>Helianthus</i>, <i>Ficus</i>, <i>Clitoria</i>. Study of fruits: *Simple: legume, capsule, caryopsis, achene, drupe,	Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance Liliaceae Poaceae (Gramineae)	Study of locally available plants of the following families: Liliaceae Poaceae (Gramineae)	2) Chromosomal aberrations: b) Numerical: – euploidy and aneuploidy	



berry.
*Aggregate: an etaerio of berries, an etaerio of follicles
*Composite fruit: sorosis, syconus

Term: Second

SEM: II/IV/VI

Name: Dr. D. S. Ghogare

MONTH	CBC&GS Patterns 2022-23				Pattern 2013	
	Class: FY	Class: FY	Class: SY	Class: SY	Class: TY	Class: TY
	BOT 212 Paper: IV (TH)	BOT 221 Lab Course 2	BOT 411 Paper: VII (TH)	BOT 321 Lab Course 5 (PR)	Paper: XIX(TH)	Paper: XXI (PR)
	Semester: II	Semester: II	Semester: IV	Semester: IV	Semester: VI	Semester: VI
Nov-23	Histology, Anatomy and Embryology Unit – 1 Histology: a) Types of tissue: i. Meristematic tissue – Meristem, structure and types based on origin and position	Histology, Anatomy and Embryology Histology: 1. Meristem: root apex and shoot apex	Gymnosperms and Utilization of Plants Unit – 1 Gymnosperms: 1. Salient features, classification as per Sporne 1965, economic importance Geological time scale, fossilization, types of fossils <i>Lyginopteris</i> , fossil fuels 3. Contributions of Prof. Birbal Sahani	Gymnosperms and Utilization of Plants Gymnosperms: a) <i>Cycas</i> i. Habit, young leaf, bulbils, male cone, microsporophyll, megasporophyll, pollen grains, mature seed.	Genetics and Biotechnology Unit : 1 1. Mendelism: i. Introduction -G.J. Mendel ii. Mendelian principles –Law of Dominance , law of segregation, law of independent assortment, back cross and test cross. 2. Interaction of genes: i. Allelic interaction: incomplete dominance, co dominance, lethal genes and blood group inheritance ii. Non allelic and non epistatic -comb shapes in fowls iii. Non allelic and epistatic: a) Complementary genes or duplicate recessive epistasis (9:7)	Genetics and Biotechnology 2. Working out laws of inheritance by using seed mixtures



					b) Supplementary genes or recessive epistasis (9:3:4) c) Dominant epistatic genes or dominant epistasis (12:3:1) d) Duplicate genes or duplicate dominant epistasis (15:1)	
Dec-23	Histology, Anatomy and Embryology Unit – 1 Histology: a) Types of tissue: ii. Permanent tissues: Simple, Complex and Secretary iii. Epidermal tissues: Trichomes and Stomata	Histology, Anatomy and Embryology Histology: 2. Permanent tissues – simple, complex and secretory 3. Epidermal tissues: trichomes and stomata	4. Study of morphology, anatomy, reproduction (excluding developmental stages) and graphical representation of life cycle of the following types: a) Cycadales – <i>Cycas</i> b) Coniferales – <i>Pinus</i>	a) <i>Cycas</i> ii. Study through permanent slides-Normal root (T.S.), Stem (T.S.), Ovule (L.S.) iii. Study through hand section-Coralloid root (T.S.), Rachis (T.S.), Leaflet (T.S.) b) <i>Pinus</i> i. Habit, long and dwarf shoot, scale leaves, foliage leaves, male cone, female cone, pollen grains (W.M.), winged seed. ii. Study through hand sections and permanent slides Root (T.S.), Stem (T.S.) Needle (T.S.) iii. Study through permanent slide - T.L.S. & R.L.S. of stem, L.S. of male cone, L.S. of female cone	3. Sex determination: i. Chromosomal theory of sex determination ii. Mechanism of sex determination in man (xx-xy), <i>Drosophila</i> (xx-xy), birds (zz-zw), grasshopper (xx-xo) and genic balance theory in <i>Drosophila</i> . iii. Sex determination in plants – <i>Melandrium</i> Unit : 2 1. Sex linked inheritance: X, XY and Y linked inheritance: 1. Color blindness and hemophilia in man. ii) Holandric genes iii) White eye colour in <i>Drosophila</i> , iv) Gynandromorphs	3. Problems based on gene interaction

Jan-24	Histology: b) Histological organization of root and shoot apices c) Various theories of cellular organization Unit – 2 Anatomy: a) Primary structure of root, stem and leaf of Monocot (Maize) and Dicot (Sunflower) b) Secondary growth in root and stem of Dicot (Sunflower)	Anatomy: 1. Anatomy of young dicot (Sunflower) and monocot (Maize) root. (Double stained permanent slide preparation) 2. Anatomy of young dicot (Sunflower) and monocot (Maize) stem. (Double stained permanent slide preparation) 3. Anatomy of dicot (Sunflower) and monocot	Unit:2 Utilization of Plants: 1. Domestication of plants and their centers of origin 2. History, origin, cultivation, harvesting, improved varieties and economic importance of the following plants: i. Food plants – Wheat, Jowar ii. Sugar – Sugarcane iii. Fibers - Cotton, Jute iv. Vegetable oils – Groundnut,	Palaeobotany: a) Types of fossils (Specimens) b) <i>Lygnopteris</i> (Specimen / Permanent slide) Utilization of plants : a) Food plants – Study of the morphology, structure, and histochemical tests of	2. Structure and function of gene: i. Fine structure of gene (Seymour Benzer) ii. One gene one enzyme hypothesis iii. Genes and related diseases – phenylketonuria, and alkaptonuria iv. Detection of genetic diseases – amniocentesis Genetic counseling	4. Problems based on sex linked inheritance
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		(Maize) leaf. (Double stained permanent slide preparation)	Sunflower	food storing tissue in Jowar & Wheat. b) Histochemical test of lignin and cellulose c) Vegetable oils – hand section of Groundnut & Sunflower Seed and staining of oil droplets by Sudan III.	Unit: 3 Biotechnology: 1. Concept of genetic engineering and recombinant DNA technology. 2. Restriction endonucleases, their properties and uses	
Feb-24	Anatomy: c) Wood anatomy: Growth rings, heart wood and sap wood d) Periderm: Origin, structure and functions. Unit – 3 Embryology: a) Structure of anther, microsporogenesis and development of male gametophyte b) Structure and types of ovule, megasporogenesis and development of female gametophyte (Polygonum type). c) Pollination -Mechanism, types and agencies. d) Double fertilization and its significance d) Double fertilization and its significance	Embryology: 1. Study of T.S. of anther 2. Structure of ovule (anatropous), types of ovules 3. Study of Dicot and Monocot seed (embryo)	2. History, origin, cultivation, harvesting, improved varieties and economic importance of the following plants: v. Beverages – Tea, Coffee 3. Botanical name, family name and economic importance of the following plants: i. Medicinal plants – <i>Aloe vera</i> , <i>Withania somnifera</i> , <i>Curcuma longa</i> , <i>Vitex negundo</i> ii. Timber and Gum – Teak, Neem, Babul, Sisham iii. Cosmetics and Perfumes – Rose, Mogara, Tuberose iv. Spices – Clove, Black pepper, Cumin, Coriander, Cinnamon	d) Study of the sources of Timber, Gum, Medicinal plants, Cosmetics and Perfumes e) Study of Black pepper, Clove, Cinnamon, Cumin, Coriander f) Field notebook, specimen collection, and tour report.	Biotechnology: 3. Cloning vectors - plasmids and phage vectors 4. Techniques of genetic engineering -isolation of desired gene, gene cloning, transfer of gene into plants 5. Applications of genetic engineering.	1. Quiz
March-24	Embryology: e) Development of Dicot embryo (Crucifer type). f) Structure, development and types of endosperm. g) Structure of Dicot and Monocot seed.	Field note book and Tour report. Collection of specimens				

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Annual Teaching Plan (Year: 2023-24)



Department of Botany

Name: Dr. Shaikh F. K.

CBC&GS Patterns 2023-24				
MONTH	Class: FY	Class: FY	Class: SY	Class: SY
	BOT 111 Paper: I (TH)	BOT 121 lab Course- I	BOT 312 Paper: VI (TH)	BOT 322 lab Course
	Semester: I	Semester: I	Semester: III	Semester: V
June-2023				
July 2023	Diversity Of Cryptogams – I Unit – 1 Viruses: General characters, classification based on host, economic importance, TMV–structure and Multiplication Mycoplasma: General characters Bacteria: General characters, ultra structure, classification based on shape, reproduction, economic importance	Diversity Of Cryptogams – I 1. Electron micrograph /models of viruses- TMV, mycoplasma and types of bacteria.	Plant Physiology Unit:1 1. Plant water relations: Diffusion, osmosis, plasmolysis and imbibition. b) Water absorption and ascent of sap (Transpiration pull theory). c) Transpiration – Definition, types -cuticular, lenticular and stomata structure of stomata, mechanism of opening and closing of stomata (starch – sugar hypoth	Plant Physiology 1.Osmosis by egg membrane and potato osmoscope. 2. Plasmolysis in <i>Tradescantia</i> leaves 3. Effect of different conc. of organic solvents on membrane permeability 4. Determination of water potential of any tuber

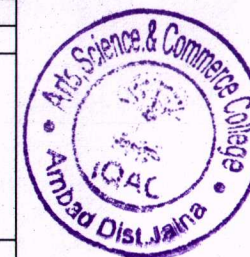
Aug 2023	Cryptogams: General characters, classification according to G.M. Smith up to class level Algae: General characters, classification according to F.E. Fritsch (1935) up to the class level, economic importance. Systematic position, occurrence, thallus structure, reproduction vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types: Cyanophyceae – <i>Nostoc</i> Chlorophyceae – <i>Chara</i>	Study of several Algae: a) <i>Nostoc</i> b) <i>Chara</i> c) <i>Vaucheria</i> d) <i>Sargassum</i> e) <i>Batrachospermum</i>	2.Mineral nutrition: a) Macro and microelements: roles and deficiency symptoms of N, P, K, Mg, Ca, Fe, Zn, Bo and Mo. b) Mineral uptake – passive (ion exchange theory) and active (carrier concept) 3. Translocation of solutes: Mass flow hypothesis, protoplasmic streaming, source-sink relationship. Unit:2 1. Enzymes : Chemical nature holoenzyme , apoenzyme, prosthetic group, cofactor and coenzyme, properties , nomenclature, classification based on type of reactions, mechanism of enzyme action 2. Growth: Discovery structure Types role and practical Applications of Auxins,Gibberlins, Cytokinins, Absciscic acid and Ethylene	6. Digestion of starch by amylase. 7. Detection of enzyme activity : oxidase, peroxidase, catalase and dehydrogenase 8. Separation of chloroplast pigments paper chromatography 9. Demonstration of hill reaction	
Sept 2023	Systematic position, occurrence, thallus structure, reproduction vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types: Xanthophyceae <i>Botrydium</i> Phaeophyceae <i>Sargassum</i> Rhodophyceae – <i>Batrachospermum</i> Fungi: General characters, classification according to Alexopoulos and Mims (1979) up to the class level, economic importance. Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types: Oomycetes – <i>Albugo</i>	Fungi: a) <i>Albugo</i> b) <i>Mucor</i> c) <i>Eurotium</i> d) <i>Agaricus</i> e) <i>Cercospora</i>	Unit:3 1. Photosynthesis: Definition, ultrastructure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), photophosphorylation – cyclic and non cyclic, Z-scheme; Dark reactions -C3, C4 and CAM pathways. C3, C4 Plant And Photoeriodism	10. Effect of different intensities of light on photosynthesis 11. Effect of different colors of Light on photosynthesis 13. Isolation of starch. 14. Isolation of pectin.	

Oct 2023	Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types: Zygomycetes – Mucor Ascomycetes Eurotium Basidiomycetes Agaricus Deuteromycetes Cercospora Lichens: General characters, nature of association, forms of thalli, economic importance, structure and reproduction in Usnea	Lichens: Form - Crustose, Foliose, Fruticose; Usnea	2. Respiration: Definition, Ultrastructure of mitochondria, types of respiration Glycolysis, TCA Cycle, Electron transport system, alcoholic and lactic acid fermentation.	15. Estimation of total and reducing sugars in fruit juice by Fehling solution 16. Separation of amino acids by paper chromatography 17. Effect of IAA and Gibberellins on Seed germination
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Name: Dr. Shaikh F. K.

MONTH	Class: FY BOT 211 Paper II (TH) Semester: II	Class: FY BOT 221 Lab Course II (PR) Semester: II	Class: SY BOT 412 Paper VIII (TH) Semester: IV	Class: SY BOT 422 Lab Course 6 VIII (PR) Semester: IV
Nov 2023				
Dec 2023	Diversity Of Cryptogams – II Unit – 1 1. Bryophytes: 1.1 General characters of bryophytes, classification as per G. M. Smith 1.2 Systematic position, occurrence, thallus structure (external and internal), reproduction -vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types: a) Hepaticopsida – <i>Marchantia</i> Economic importance of Bryophytes	Diversity Of Cryptogams – II Unit – 1 Practical through temporary mounting, permanent slides, chart, models, photograph and audiovisual aids Study of specimen of Bryophytes, and Pteridophytes through temporary mounting, permanent slides, field work and biovisual aids. a) Bryophytes: i. <i>Marchantia</i> ii) <i>Anthoceros</i>	Plant Ecology Unit: 1 Plant and environment: A) Climatic factors: a) Light as an ecological factor, global radiation and photosynthetically active radiation b) Temperature as an ecological factor c) Water as an ecological factor, physicochemical properties of water	Plant Ecology Study of morphological and anatomical adaptations in hydrophytes – <i>Hydrilla, Eichhornia, Typha</i> and <i>Nymphaea</i> . Plant Ecology Study of morphological and anatomical adaptations in Xerophytes <i>Aloe Vera, Casuarina, Nerium</i>



Jan 2023	1. Bryophytes: 1.2 Systematic position, occurrence, thallus structure (external and internal), reproduction -vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types: b) Bryopsida – <i>Funaria</i> C) <i>Anthoceros</i> 2. Pteridophytes: General characters of Pteridophytes, classification as per G. M. Smith. Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and	iii). <i>Funaria</i> Rhynia image study b) Pteridophytes: <i>Psilotum</i>	B) Edaphic factor: Soil formation -soil profile, physicochemical properties of soil, major soil types of India, soil erosion and soil conservation C) Pollution factors Definition, types of pollutions, consequences of pollution on biosphere (Global warming), bioaccumulation and phytoremediation, function of pollution control board. Unit:2 1. Response of plants to water Morphological, physiological and anatomical response of plants to water – hydrophytes,	Study of morphological adaptations in halophyte- pneumatophore, stilt roots Study of morphological and anatomical adaptations in epiphytes Study of vegetation by quadrat method Estimation of importance value index (IVI) of grassland ecosystem on the basis of relative frequency, relative density relative abundance.
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	alternation of generations of the following types: a) Psilopsida – <i>Psilotum</i>		xerophytes, halophytes and epiphytes.	
Feb 2023	Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types: b) Lycopside – <i>Lycopodium</i>, <i>Selaginella</i> c) Sphenopsida – <i>Equisetum</i>	b) Pteridophytes: <i>Lycopodium</i>, <i>Selaginella</i>, <i>Equisetum</i>	2. Phytogeography: Biogeographical zone in India in relation to forest types, and biosphere reserve in India. Unit: 3 1.Community ecology : Community characteristics-frequency, density life forms and biological spectrum	Determination of water holding capacity of different soils Study of meteorological instruments- rain gauge, hygrometer, barometer Determination of percent leaf area injury of different infected leaf samples Estimation of salinity of different water samples
March 2023	Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types: d) Pteropsida – <i>Marsilea</i> 2.3- Stellar evolution in Pteridophyta	b) Pteridophytes: <i>Marsilea</i>	Ecosystem: structure -biotic and abiotic components, food chain, food web, ecological pyramids, energy flow.	Determination of pH of different soils by pH papers/universal indicator/ Ph meter



Dr. Shaikh Z. K.

*H. O. D.
Botany*

Principal
Miss S. Arts, Science & Commerce College
Ambad Dist. Jalna - 431204

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2023-2024)

Department of Botany

Name: Dr. S. A. Taur



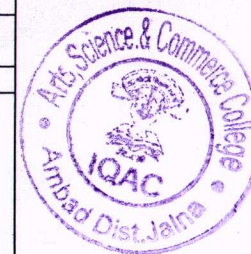
MONTH	Class: SY	Class: SY	Class: TY	Class: TY
	Paper: SEC- (BOT-313) (TH) A	Paper: SEC- (BOT-313) (PR) A	Paper: XVIII C (TH)	Paper: XX C (PR)
	Semester: III	Semester: III	Semester: V	Semester: V
JUN- 23	Mushroom cultivation Unit: 1 Introduction to Mushroom cultivation, history, Edible and non – edible mushrooms (poisonous), types of edible mushrooms available in India.		Plant Pathology Unit-1 Fundamentals of plant pathology: 1. Plant pathology – history, scope, losses due to pathogens, importance and need to study plant pathology 2. Classification of plant diseases on the basis of symptoms and causal organisms – animate and inanimate	
JULY- 23	Unit:2 Cultivation Techniques Cultivation of Button, Oyster and paddy straw mushrooms, collection of raw materials, compost and composting, spawn and spawning,	Mushroom cultivation 1. Study of Mushroom cultivation, laboratory requirements and layout. 2. Study of mushroom morphology- L.S of Basidiocarp (button mushroom) section through gill and mounting of spores.	3. Plant pathological institutes – IARI (Indian Agricultural Research Institute), ICRISAT (International Crop Research Institute for Semi Arid Tropics) 4. Seed pathology – concept and importance of seed pathology, seed borne pathogens, methods to study seed borne pathogens 5. Study of air borne pathogens: methods and applications 6. Field and laboratory diagnosis of plant disease - Koch's postulates Unit-2 Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra	Plant Pathology 1. Study of Koch's postulates – isolation, inoculation and disease development 2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra
AUG- 23	casing, cropping, picking and packing, management of diseases. Unit: 3 Post Harvest technology and Storage Short- term preservation, conventional packaging,	3. Preparation of culture medium. 4. Preparation of spawn for Oyster mushroom	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 2) Pulses: a. Wilt of pigeon pea b. yellow vein mosaic of bean 3) Vegetables: a. Late blight of potato b. little leaf of brinjal	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 2) Pulses: a. Wilt of pigeon pea b. yellow vein mosaic of bean 3) Vegetables:

	storage of fresh mushrooms (refrigeration, vacuum, cooling).		c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard	a. Late blight of potato b. Little leaf of brinjal c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard
SEP- 23	Long- term preservation (canning, pickles, papads), drying. Unit: 4 Economics in Mushroom cultivation Cost for site, spawn production, compost unit. Machinery for small scale farm.	5. Cultivation of Oyster mushroom. 6. Mushroom preservation- Drying, storage in brine and pickle marketing	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 5) Cash crops: a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6. Ornamentals: a. Powdery mildew of rose	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 5) Cash crops: a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6. Ornamentals: a. Powdery mildew of rose
OCT- 23	Cost benefit ratio- Marketing of mushrooms in India and abroad, Export value, Low-cost technology ratio.	Visit of different Vermiculture centres.	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 7) Weeds: a. Rust of Euphorbia 8) Trees: a. <i>Cercospora</i> on <i>Albizia</i> fruits	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 7) Weeds: a. Rust of Euphorbia 8) Trees: a. <i>Cercospora</i> on <i>Albizia</i> fruits

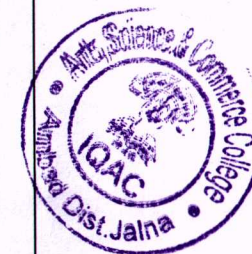


Name: Dr. S. A. Taur

MONTH	Class: SY	Class: SY	Class: TY	Class: TY
	Paper: BOT-413 (SEC)- 2 D (TH)	Paper: BOT-413 (SEC)- 2 D (PR)	Paper: XXII C (TH)	Paper: XXIV C (PR)
	Semester: IV	Semester: IV	Semester: VI	Semester: VI
NOV- 23	Medicinal Botany Unit – 1 History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Systems. Introduction and Scope- Ayurveda, Siddha, Unani	Medicinal Botany 1. Study of locally available medicinal plants. 2. Study of plants used in Siddha medicine. 3. Study of Unani system of medicine.	Microbiology and Disease Management Unit – 1 1. Microbiology Microorganisms in biological world, their classification and features of different groups 2. Microbial techniques: a. Microscopy – simple, compound and electron microscope b. Micrometry – Principle, working and uses c. Staining – common stains used in pathology, their preparation and significance, (cotton blue and Gram's Stain) d. Sterilization of glassware's and media	1. Study of fungicides as per theory syllabus. 2. Preparation of Bordeaux mixture, burgundy mixture and Bordeaux paste. 3. Study of insecticides with respect to active ingredient, colour code, formulation, mode of action, antidote and uses
DEC- 23	Unit – 2 Conservation of endangered and endemic medicinal plants, In situ conservation: Biosphere reserves, sacred groves, National parks; Ex- situ conservation; Botanic Gardens, Ethnomedicinal plant Gardens.	4. Study of plants used to treat Jaundice. 5. Study of plants used to treat cardiac diseases.	3. Culture media for isolating plant pathogen: Industrial application of microorganisms - organic acids, alcohol, milk products, antibiotics and bio-pesticides	4. Study of Trichoderma culture. 5. Study of plant protection equipment's –pneumatic air pump, knapsack sprayer, mist blower cum duster. 6. Principle and working of autoclave, laminar air flow, Tilak air sampler. 7. Use of aerobiological techniques to study fungal spora (gravity slide method, Tilak air sampler)
JAN- 24	Unit – 3 Propagation of Medicinal Plants: Propagation methods- sowing, cutting, layering, grafting and budding	6. Study of plants used to treat infertility. 7. Study of plants used to treat diabetics.	Unit:2 Disease management: 1. Preventive methods: field sanitation, use of clean planting material, crop rotation, trap crops, time of sowing, planting distance and tillage. 2. Control methods: a. Seed treatment: concept, objective, traditional and modern methods of seed treatment b. Soil sterilization: concept, objectives and methods	8. Calibration of microscope and measurement of fungal spores. 9. Sketching of fungal spore by camera lucida technique 10. Detection of organic acids from healthy and infected leaves by circular paper chromatography



FEB- 24	Unit – 4 Study of Folk medicines in India. Application of natural products to cure certain diseases like Jaundice, cardiac, infertility,	8. Study of plants used to treat Blood pressure. 9. Study of plants used to treat skin diseases.	c. Fungicides: Definition, classification and ideal characteristics of fungicides, study of fungicides with respect to active ingredients, formulations, methods of application, mode of action and uses. i. Sulphur fungicides – Inorganic – Wettable Sulphur, Organic – Thiram ii. Copper fungicides iii. Mercuric chloride – Agrosan – GN iv. Heterocyclic nitrogenous compounds – Captan v. Benzene compounds – Dexon vi. Antibiotics – Streptomycin and Aureofungin vii. Systemic – Bavistin and Vitavax d. Pesticides: Nicotin, Neem and pyrethrum. e. Rhodenticides – Zinc phosphoid f. Nematicides- Nemagon, Propoxar g. Weedicides- 2,4-D h. biological control- definition, need, examples and role Plant quarantine	11. Detection of Amino acids from healthy and infected leaves by circular paper chromatography 12. Study of pathogens in fruits from local market. 13. Study of fungi from locally available seed samples
MAR- 24	Diabetics, Blood pressure and skin diseases.	10. Ex- situ conservation of important medicinal plants.	3. Control measures and environment: pollution due to chemicals, residual effects, toxicity, safe measures, colour code, antidote, symptoms of	14. Preparation of sterile media - nutrient agar, potato dextrose agar 15. Preparation of stains and mounting media- lactophenol and grams stain.



Dr. Shrikant A. Taur,

Head of Department

Principal
MSS's Arts, Science & Commerce College
Ambad Dist. Jalna-431204

Matsyodari Shikshan Sanstha's
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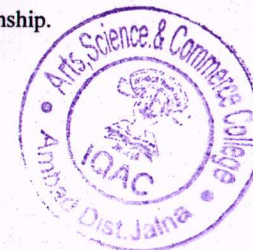
Department of Botany



Name: Dr. Shaikh F. K.

CBC&GS Patterns 2023-24				
MONTH	Class: FY	Class: FY	Class: SY	Class: SY
	BOT 111 Paper: I (TH)	BOT 121 lab Course- I	BOT 312 Paper: VI (TH)	BOT 322 lab Course
	Semester: I	Semester: I	Semester: III	Semester: V
June-2023				
July 2023	Diversity Of Cryptogams – I Unit – 1 Viruses: General characters, classification based on host, economic importance, TMV–structure and Multiplication Mycoplasma: General characters Bacteria: General characters, ultra structure, classification based on shape, reproduction, economic importance	Diversity Of Cryptogams – I 1. Electron micrograph /models of viruses- TMV, mycoplasma and types of bacteria.	Plant Physiology Unit:1 1. Plant water relations: Diffusion, osmosis, plasmolysis and imbibition. b) Water absorption and ascent of sap (Transpiration pull theory). c) Transpiration – Definition, types: -cuticular, lenticular and stomata structure of stomata, mechanism of opening and closing of stomata (starch – sugar hypoth	Plant Physiology 1.Osmosis by egg membrane and potato osmoscope. 2. Plasmolysis in <i>Tradescantia</i> leaves 3. Effect of different conc. of organic solvents on membrane permeability 4. Determination of water potential of any tuber

Aug 2023	Cryptogams: General characters, classification according to G.M. Smith up to class level Algae: General characters, classification according to F.E. Fritsch (1935) up to the class level, economic importance. Systematic position, occurrence, thallus structure, reproduction vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types: Cyanophyceae – <i>Nostoc</i> Chlorophyceae – <i>Chara</i>	Study of several Algae: a) <i>Nostoc</i> b) <i>Chara</i> c) <i>Vaucheria</i> d) <i>Sargassum</i> e) <i>Batrachospermum</i>	2.Mineral nutrition: a) Macro and microelements: roles and deficiency symptoms of N, P, K, Mg, Ca, Fe, Zn, Bo and Mo. b) Mineral uptake – passive (ion exchange theory) and active (carrier concept) 3. Translocation of solutes: Mass flow hypothesis, protoplasmic streaming theory, source-sink relationship. Unit:2 1. Enzymes : Chemical nature holoenzyme , apoenzyme, prosthetic group, cofactor and coenzyme, properties , nomenclature, classification based on type of reactions, mechanism of enzyme action 2. Growth: Discovery structure Types role and practical Applications of Auxins,Gibberlins, Cytokinins, Absciscic acid and Ethylene	6. Digestion of starch by amylase. 7. Detection of enzyme activity : oxidase, peroxidase, catalase and dehydrogenase 8.Separation of chloroplast pigments paper chromatography 9.Demostration of hill reaction	10.Effect of different intensities of light on photosynthesis 11. Effect of different colors of Light on photosynthesis 13. Isolation of starch. 14. Isolation of pectin.
Sept 2023	Systematic position, occurrence, thallus structure, reproduction vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types: Xanthophyceae <i>Botrydium</i> Phaeophyceae <i>Sargassum</i> Rhodophyceae– <i>Batrachospermum</i> Fungi: General characters, classification according to Alexopoulous and Mims (1979) up to the class level, economic importance. Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types: Oomycetes – <i>Albugo</i>	Fungi: a) <i>Albugo</i> b) <i>Mucor</i> c) <i>Eurotium</i> d) <i>Agaricus</i> e) <i>Cercospora</i>	Unit:3 1. Photosynthesis: Definition, ultrastructure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), photophosphorylation – cyclic and non cyclic, Z-scheme; Dark reactions -C3, C4 and CAM pathways. C3, C4 Plant And Photoeriodism		



Oct 2023	Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types: Zygomycetes – Mucor Ascomycetes Eurotium Basidiomycetes Agaricus Deuteromycetes Cercospora Lichens: General characters, nature of association, forms of thalli, economic importance, structure and reproduction in Usnea	Lichens: Form - Crustose, Foliose, Fruticose; Usnea	2. Respiration: Definition, Ultrastructure of mitochondria, types of respiration Glycolysis, TCA Cycle, Electron transport system, alcoholic and lactic acid fermentation.	15. Estimation of total and reducing sugars in fruit juice by Fehling solution 16. Separation of amino acids by paper chromatography 17. Effect of IAA and Gibberellins on Seed germination
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Name: Dr. Shaikh F. K.

MONTH	Class: FY	Class: FY	Class: SY	Class: SY
	BOT 211 Paper II (TH)	BOT 221 Lab Course II (PR)	BOT 412 Paper VIII (TH)	BOT 422 Lab Course 6 VIII (PR)
	Semester: II	Semester: II	Semester: IV	Semester: IV
Nov 2023				
Dec 2023	Diversity Of Cryptogams – II Unit – 1 1. Bryophytes: 1.1 General characters of bryophytes, classification as per G. M. Smith 1.2 Systematic position, occurrence, thallus structure (external and internal), reproduction -vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types: a) Hepaticopsida – <i>Marchantia</i> Economic importance of Bryophytes	Diversity Of Cryptogams – II Unit – 1 Practical through temporary mounting, permanent slides, chart, models, photograph and audiovisual aids Study of specimen of Bryophytes, and Pteridophytes through temporary mounting, permanent slides, field work and biovisual aids. a) Bryophytes: i. <i>Marchantia</i> ii) <i>Anthoceros</i>	Plant Ecology Unit: 1 Plant and environment: A) Climatic factors: a) Light as an ecological factor, global radiation and photosynthetically active radiation b) Temperature as an ecological factor c) Water as an ecological factor, physicochemical properties of water	Plant Ecology Study of morphological and anatomical adaptations in hydrophytes – <i>Hydrilla, Eichhornia, Typha</i> and <i>Nymphaea</i> . Plant Ecology Study of morphological and anatomical adaptations in Xerophytes <i>Aloe Vera, Casuarina, Nerium</i>



Jan 2023	1. Bryophytes: 1.2 Systematic position, occurrence, thallus structure (external and internal), reproduction -vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types: b) Bryopsida – <i>Funaria</i> C) <i>Anthoceros</i> 2. Pteridophytes: General characters of Pteridophytes, classification as per G. M. Smith. Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and	iii). <i>Funaria</i> Rhynia image study b) Pteridophytes: <i>Psilotum</i>	B) Edaphic factor: Soil formation -soil profile, physicochemical properties of soil, major soil types of India, soil erosion and soil conservation C) Pollution factors Definition, types of pollutions, consequences of pollution on biosphere (Global warming), bioaccumulation and phytoremediation, function of pollution control board. Unit:2 1. Response of plants to water Morphological, physiological and anatomical response of plants to water – hydrophytes,	Study of morphological adaptations in halophyte- pneumatophore, stilt roots Study of morphological and anatomical adaptations in epiphytes Study of vegetation by quadrat method Estimation of importance value index (IVI) of grassland ecosystem on the basis of relative frequency, relative density relative abundance.
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	alternation of generations of the following types: a) Psilopsida – <i>Psilotum</i>		xerophytes, halophytes and epiphytes.	
Feb 2023	Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types: b) Lycopsida – <i>Lycopodium</i> , <i>Selaginella</i> c) Sphenopsida – <i>Equisetum</i>	b) Pteridophytes: <i>Lycopodium</i> , <i>Selaginella</i> , <i>Equisetum</i>	2. Phytogeography: Biogeographical zone in India in relation to forest types, and biosphere reserve in India. Unit: 3 1. Community ecology : Community characteristics-frequency, density life forms and biological spectrum	Determination of water holding capacity of different soils Study of meteorological instruments-rain gauge, hygrometer, barometer Determination of percent leaf area injury of different infected leaf samples Estimation of salinity of different water samples
March 2023	Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types: d) Pteropsida – <i>Marsilea</i> 2.3- Stellar evolution in Pteridophyta	b) Pteridophytes: <i>Marsilea</i>	Ecosystem: structure -biotic and abiotic components, food chain, food web, ecological pyramids, energy flow.	Determination of pH of different soils by pH papers/universal indicator/ Ph meter



Amuch
Dr. Shaikh F. K.

Suraj
H. O. D.
Botany

(Signature)
Principal
M. S. Arts, Science & Commerce College
Ambad Dist. Jaina-431204

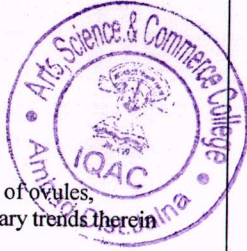
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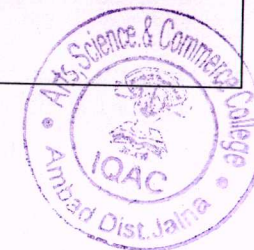
Department of Botany (१५)

Name: Dr. D. S. Ghogare

MONTH	Class: M.Sc. FY	Class: M.Sc. FY	Class: M.Sc. SY	Class: M.Sc. SY
	BOT 502 (TH)	BOT 505 lab Course- I	BOT 561 C (TH)	BOT 562 C lab Course
	Semester: I	Semester: I	Semester: II	Semester: II
June-2023	(Taxonomy of Angiosperms) UNIT- I: Angiosperms: Definition, its characteristic features and probable causes of Their evolutionary success. Taxonomy: Definition, scope, principles, aims and objectives of taxonomy. History of Botanical Explorations in Maharashtra with special reference to Marathwada	1. Morphology: Terminologies related to Habit and life span, root, stem, leaves, inflorescence, flowers, fruits. 2. Phytography: preparation of scientific botanical description of a plant specimen.	TAXONOMY OF ANGIOSPERMS-I UNIT-I: Taxonomy; Aims and objectives of taxonomy, functions and phases of taxonomy; taxonomy as synthetic discipline (passing remarks), Characteristic features of angiosperms UNIT-II: Phylogeny of angiosperms: monophyletic and polyphyletic origin of angiosperms, herbaceous origin hypothesis, origin of monocotyledons; molecular evidence to angiosperm origin, cradle of angiosperms.	Description of species based on many specimens to study intraspecific variation.
July 2023	UNIT- II: Phylogeny of Angiosperms: A general account of origin of Angiosperms with reference to time and place and possible ancestors: euanthial theory (Bennettitales, Caytoniales, Cycadales) and pseudanthial theory (Pentoxylales, Glossopteridae).	3. Study of at least 20 locally available families of flowering plants. 4. Identification of genus and species of locally available wild plants	UNIT-III: Taxonomic hierarchy: it's major, minor and infraspecific categories and ranks A brief history of Pre-Darwinian and post Darwinian systems of classification with special emphasis on Thorne and Cronquist's systems of classification	Study of morphology and general evolutionary trends in flowers, stamens and carpels of primitive families viz. Magnoliaceae, Papaveraceae, Nymphaeaceae, Lauraceae

Aug 2023	UNIT- III: Criteria used for classification; phases of plant classification and brief history on account of artificial, natural, phylogenetic systems of classifications with special reference to Bentham and Hooker, Cronquist's system, Takhtajan's system and Broad outline of APG III (2009) system of classification and its merits and demerits. UNIT-VI: Causes of variations in population; Speciation, Species Concepts; Taxonomic Hierarchy. UNIT-VII: Angiosperm Families: Nymphaeaceae, Hydatellaceae, Magnoliaceae, Papaveraceae, Malvaceae, Sapotaceae, Apiaceae, Asteraceae, Arecaceae and Poaceae.	5. Preparation of botanical keys at generic level by locating key characters. 6. Knowledge of at least 10 medicinal plant species	UNIT-IV: Concept of taxonomic character: analytical and synthetic, qualitative and quantitative, genetically and environmentally controlled, good and bad character, character weighing, taxonomic coefficient	 3. Study of different types of ovules, placentation and evolutionary trends therein
Sept 2023	UNIT-IV: Botanical Nomenclature: Concept of nomenclature, Binomial nomenclature and its advantages, formation of code, Melbourne Code 2011, Principles of International Code of Nomenclature of Algae, Fungi and Plants (ICN), ending of taxa names, Typification. Taxonomic literature: Flora, manuals, monographs, periodicals, dictionaries, indices, journals, pictorial encyclopedias and books. - asexual, sexual and graphic life cycle with respect to the following types: Oomycetes – <i>Albugo</i>	7. Demonstration of the utility for secondary metabolites in the taxonomy of some appropriate genera. 8. Field trips within and around the University Campus, compilation of field notes And preparation of herbarium sheets of plants.	UNIT-V: Trends in evolution of characters: in flowering plants in habit and habitat, phyllotaxy, stomatal apparatus, nodal anatomy, xylem, phloem, cambium, vascular cambium, inflorescence, flower, androecium, gynoecium, pollination, fertilization, placentation, fruit, seed and seedling.	4. Exercises on nomenclature problems: Author citation, principle of priority, transfer of taxa, effective and valid publication
Oct 2023	UNIT-V: Taxonomic evidences: Morphology, anatomy, embryology, palynology, cytology, phyto-chemistry and numerical taxonomy. Taxonomic tools: Serological and molecular techniques, GIS, GPS, Use of computers in angiosperms taxonomy (Use of computer and data bases for identification of plants with the help of	9. Botanical excursion of about one week duration to any botanically rich location preferable outside the State.	UNIT-VI: Phylogenetic relationship: Primitive and advanced characters, monophyletic, paraphyletic and polyphyletic, homology and analogy, parallel and convergent evolution, plesiomorphic and apomorphic characters. Cladistics: Operational Taxonomic Units (OTU) characters and coding, measuring of similarity, cladograms. UNIT-VII: History of botanical explorations in Maharashtra and Marathwada. Contributions of Botanical Survey of India.	5. Describing new taxon, deposition of type, Latin diagnosis and abbreviations used in citations.

website).	Herbarium Techniques, Major herbaria of the World and India. Contributions of Herbarium BAMU.		
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Name: Dr. D. S. Ghogare

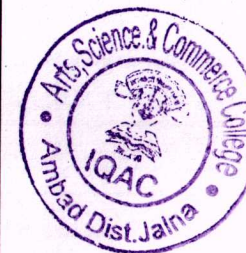
MONTH	Class: FY	Class: FY	Class: SY	Class: SY
	BOT 552 Paper II (TH)	BOT 555 Lab Course II (PR)	BOT 661 Paper (TH)	BOT 662 Lab Course (PR)
	Semester: II	Semester: II	Semester: IV	Semester: IV
Nov 2023	Biology and Diversity of Fungi and microbes) UNIT- II. Fungi: General Characters, Classification. - Economic importance of fungi in medicine, Agriculture (Biopesticide and biofertilizers), food (SCP. Mushrooms) - Fungi as plant pathogen – General account of different groups and type study of fungi as pathogen.	01. Principal and working of instruments. 02. Preparation of Media, strains and Isolation of Bacteria and Fungi from soil and infected plant tissues and pure culture.	TAXONOMY OF ANGIOSPERMS-III UNIT-I: Phylogeny of Angiosperms: Isoetes-monocotyledone theory, Coniferales-amentiferae theory, Gnetales-angiosperms theory, anthostrobilus theory, Bennettitalean theory, Caytonialean theory, Stachyspory-phylospermae theory, pteridosperm theory, Pentoxylales theory and Durian theory; Coevolution of insect and plants.	1. Assessment of taxonomic characters (a) analytical and synthetic characters, (b) qualitative and quantitative characters. 2. Study of different taxonomic features (a) stomata, (b) trichomes, (c) crystals, (d) pollen grains
Dec 2023	o Mastigomycotina - Phytophthora, albugo, o Zygomycotina –Rhizopus, o Ascomycotina – Claviceps, Erysiphae, o Basidiomycotina – Puccinia,	03. Gram staining of bacteria. 04. Morphology and Taxonomy of following fungi - Albugo, Phytophthora, Mucor, Rhizopus, Plasmopara, Sclerospora, Taphrina, Phyllochora, ClavicepsChaetomium, Puccinia, Ustilago, Sphacelotheca,	UNIT-II: Study of fossil angiosperms: Malvaceae: Sahnioarpon; Myrtaceae: Sahnipushpam; Soneratiaceae: Sahnianthus, Enigmocarpon; Palmae: Palmoxylon. UNIT-III: Taxonomic tools: Serological and molecular techniques, GIS, GPS, Use of computers in angiosperms taxonomy (Use of computer and data bases for identification of plants with the help of website). Taxonomic keys: suggestions for construction and use of keys: types of keys.	3. Describing new taxon, deposition of type, Latin diagnosis and abbreviations used in citations. 4. Detection of taxonomically important chemical compounds by various tests.

Jan 2023	Ustilago, o Deuteromycotina – Alternaria, Fusarium, Cercospora, Helminthosporium.	i Agaricus, Polyporus, Volvariella, Cyathus, Lycoperdon, Geaster, Alternaria, Aspergillus, Penicillium, Helminthosporium, Cercospora, Curvularia, Fusarium, Rhizoctonia, Colletotrichum, Phoma.	UNIT-IV: Molecular Biology: Acquisition of Molecular Data, sources of DNA sequence data, Plant genomes, Polymerase Chain Reaction (PCR) analysis, DNA Sequencing Reaction, Types of DNA Sequence Data, Generation and analysis of DNA Sequence Data, Restriction Fragment Length Polymorphism analysis (RFLP), allozymes, micro-satellite DNA, Random Amplified Polymorphic DNA (RAPDs), Amplified Fragment Length Polymorphism (AFLPs)	5. Detection of variations in a given population. 6. Exercises on nomenclature problems: Author citation, principle of priority, transfer of taxa, effective and valid publication etc.
Feb 2023	UNIT- III. Bacteria: General characters, ultrastructure, classification, Koch's postulates, archaeobacteria and eubacteria. o Role of agrobacterium in GM crops. o Citrus canker. o Angular leaf spot of cotton	05. Growth of Fungi on liquid and solid media — Fusarium and Helminthosporium. 06. Study of bacterial plant diseases - Citrus canker, Angular leaf spot of cotton, soft rot of fruits.	2 UNIT-V: Numerical Taxonomy: Principles of taxometrics, operational taxonomic units, taxonomic characters, measuring resemblances, cluster analysis, classification. Biosystematics: Aims, objectives and steps in biosystematic studies, biosystematic categories, importance of biosystematic studies	7. Practicals based on numerical taxonomy/ cluster analysis. 8. Study of different types of ovules, placentations and evolutionary trends therein. 9. Study of following fossil angiosperm specimens: Palaeoxylon, Enigmocarpon, Sahnianthus, Glossopteris with the help of slides/ specimens.



Dr. D. S. Ghogare

March 2023	UNIT- IV. Phytoplasma: General Account, ultrastructure and economic importance - o Grassy shoot of sugarcane. - o Little leaf of brinjal. UNIT- V. Viruses: General account, ultrastructure and economic importance of viruses. - o TMV - o Papaya leaf curl.	07. Study of Phytoplasma diseases - Little leaf of brinjal, Sesamum phyllody, Grassy shoot of sugarcane. 08. Study of viral plant diseases - Papaya mosaic, Tomato leaf curl, Yellow vein mosaic of Bhindi. 09. Collection and submission of fungal, viral, phytoplasma and bacterial diseases of plants.	UNIT-VI: Recent system of classification: Angiosperm Phylogeny Group (APG IV) system. UNIT-VII: Phytogeography: World vegetation, theories of plant distribution, vicarious areas, centres of origin, theory of tolerance.	10. To identify family with the help of computerized Key. 11. Preparation and standardization of some simple Ayurvedic Drugs.
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Dr. D. S. Ghogure

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Annual Teaching Plan (Year: 2023-2024)

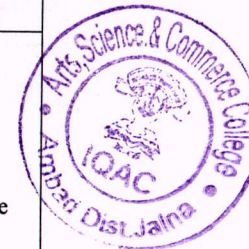
Department of Botany (PG)



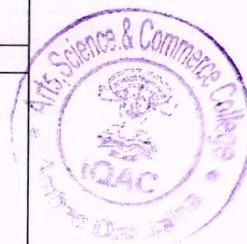
Name: Dr. S. A. Taur

MONTH	Class: SY	Class: SY	Class: TY	Class: TY
	Paper: SEC- (BOT-313) (TH) A	Paper: SEC- (BOT-313) (PR) A	Paper: XVIII C (TH)	Paper: XX C (PR)
	Semester: III	Semester: III	Semester: V	Semester: V
JUN- 23	Mushroom cultivation Unit: 1 Introduction to Mushroom cultivation, history, Edible and non – edible mushrooms (poisonous), types of edible mushrooms available in India.		Plant Pathology Unit-1 Fundamentals of plant pathology: 1. Plant pathology – history, scope, losses due to pathogens, importance and need to study plant pathology 2. Classification of plant diseases on the basis of symptoms and causal organisms – animate and inanimate	
JULY- 23	Unit:2 Cultivation Techniques Cultivation of Button, Oyster and paddy straw mushrooms, collection of raw materials, compost and composting, spawn and spawning,	Mushroom cultivation 1. Study of Mushroom cultivation, laboratory requirements and layout. 2. Study of mushroom morphology- L.S of Basidiocarp (button mushroom) section through gill and mounting of spores.	3. Plant pathological institutes – IARI (Indian Agricultural Research Institute), ICRISAT (International Crop Research Institute for Semi Arid Tropics) 4. Seed pathology – concept and importance of seed pathology, seed borne pathogens, methods to study seed borne pathogens 5. Study of air borne pathogens: methods and applications 6. Field and laboratory diagnosis of plant disease - Koch's postulates Unit-2 Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra	Plant Pathology 1. Study of Koch's postulates – isolation, inoculation and disease development 2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra
AUG- 23	casing, cropping, picking and packing, management of diseases. Unit: 3 Post Harvest technology and Storage Short- term preservation, conventional packaging,	3. Preparation of culture medium. 4. Preparation of spawn for Oyster mushroom	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 2) Pulses: a. Wilt of pigeon pea b. yellow vein mosaic of bean 3) Vegetables: a. Late blight of potato b. little leaf of brinjal	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 2) Pulses: a. Wilt of pigeon pea b. yellow vein mosaic of bean 3) Vegetables:

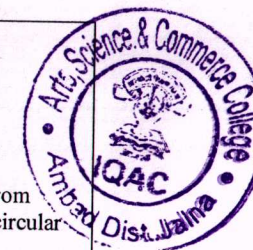
	storage of fresh mushrooms (refrigeration, vacuum, cooling).		c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard	a. Late blight of potato b. Little leaf of brinjal c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard
SEP- 23	Long- term preservation (canning, pickles, papads), drying. Unit: 4 Economics in Mushroom cultivation Cost for site, spawn production, compost unit. Machinery for small scale farm.	5. Cultivation of Oyster mushroom. 6. Mushroom preservation- Drying, storage in brine and pickle marketing	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 5) Cash crops: a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6. Ornamentals: a. Powdery mildew of rose	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 5) Cash crops: a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6. Ornamentals: a. Powdery mildew of rose
OCT- 23	Cost benefit ratio- Marketing of mushrooms in India and abroad, Export value, Low-cost technology ratio.	Visit of different Vermiculture centres.	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 7) Weeds: a. Rust of Euphorbia 8) Trees: a. <i>Cercospora</i> on <i>Albizia</i> fruits	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 7) Weeds: a. Rust of Euphorbia 8) Trees: a. <i>Cercospora</i> on <i>Albizia</i> fruits



MONTH	Class: SY	Class: SY	Class: TY	Class: TY
	Paper: BOT-413 (SEC)- 2 D (TH)	Paper: BOT-413 (SEC)- 2 D (PR)	Paper: XXII C (TH)	Paper: XXIV C (PR)
	Semester: IV	Semester: IV	Semester: VI	Semester: VI
NOV- 23	Medicinal Botany Unit – 1 History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Systems. Introduction and Scope- Ayurveda, Siddha, Unani	Medicinal Botany 1. Study of locally available medicinal plants. 2. Study of plants used in Siddha medicine. 3. Study of Unani system of medicine.	Microbiology and Disease Management Unit – 1 1. Microbiology Microorganisms in biological world, their classification and features of different groups 2. Microbial techniques: a. Microscopy – simple, compound and electron microscope b. Micrometry – Principle, working and uses c. Staining – common stains used in pathology, their preparation and significance, (cotton blue and Gram's Stain) d. Sterilization of glassware's and media	1. Study of fungicides as per theory syllabus. 2. Preparation of Bordeaux mixture, burgundy mixture and Bordeaux paste. 3. Study of insecticides with respect to active ingredient, colour code, formulation, mode of action, antidote and uses
DEC- 23	Unit – 2 Conservation of endangered and endemic medicinal plants, In situ conservation: Biosphere reserves, sacred groves, National parks; Ex- situ conservation; Botanic Gardens, Ethnomedicinal plant Gardens.	4. Study of plants used to treat Jaundice. 5. Study of plants used to treat cardiac diseases.	3. Culture media for isolating plant pathogen: Industrial application of microorganisms - organic acids, alcohol, milk products, antibiotics and bio-pesticides	4. Study of Trichoderma culture. 5. Study of plant protection equipment's –pneumatic air pump, knapsack sprayer, mist blower cum duster. 6. Principle and working of autoclave, laminar air flow, Tilak air sampler. 7. Use of aerobiological techniques to study fungal spora (gravity slide method, Tilak air sampler)
JAN- 24	Unit – 3 Propagation of Medicinal Plants: Propagation methods- sowing, cutting, layering, grafting and budding	6. Study of plants used to treat infertility. 7. Study of plants used to treat diabetics.	Unit:2 Disease management: 1. Preventive methods: field sanitation, use of clean planting material, crop rotation, trap crops, time of sowing, planting distance and tillage. 2. Control methods: a. Seed treatment: concept, objective, traditional and modern methods of seed treatment b. Soil sterilization: concept, objectives and methods	8. Calibration of microscope and measurement of fungal spores. 9. Sketching of fungal spore by camera lucida technique 10. Detection of organic acids from healthy and infected leaves by circular paper chromatography



FEB- 24	Unit – 4 Study of Folk medicines in India. Application of natural products to cure certain diseases like Jaundice, cardiac, infertility,	8. Study of plants used to treat Blood pressure. 9. Study of plants used to treat skin diseases.	c. Fungicides: Definition, classification and ideal characteristics of fungicides, study of fungicides with respect to active ingredients, formulations, methods of application, mode of action and uses. i. Sulphur fungicides – Inorganic – Wettable Sulphur, Organic – Thirum ii. Copper fungicides iii. Mercuric chloride – Agrosan – GN iv. Heterocyclic nitrogenous compounds – Captan v. Benzene compounds – Dexon vi. Antibiotics – Streptomycin and Aureofungin vii. Systemic – Bavistin and Vitavax d. Pesticides: Nicotin, Neem and pyrethrum. e. Rhodenticides – Zinc phosphoid f. Nematicides- Nemagon, Propoxar g. Weedicides- 2,4-D h. biological control- definition, need, examples and role Plant quarantine	11. Detection of Amino acids from healthy and infected leaves by circular paper chromatography 12. Study of pathogens in fruits from local market. 13. Study of fungi from locally available seed samples
MAR- 24	Diabetics, Blood pressure and skin diseases.	10. Ex- situ conservation of important medicinal plants.	3. Control measures and environment: pollution due to chemicals, residual effects, toxicity, safe measures, colour code, antidote, symptoms of	14. Preparation of sterile media - nutrient agar, potato dextrose agar 15. Preparation of stains and mounting media- lactophenol and grams stain.



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Dr. Shrikant A. Taur

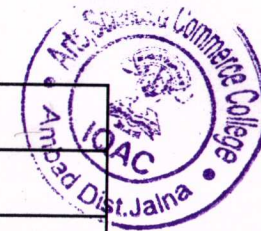
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Dr. D. S. Ghogure

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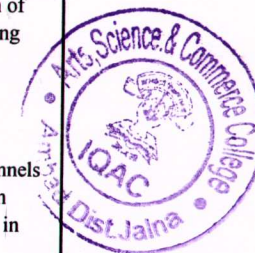
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Annual Teaching Plan (Year: 2023-2024)

Department of B.C.A

Month	Class: BCA T.Y	Class: BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y
	Paper: Elements Of Commerce	Paper: Android 9	Paper: Business Law- III	Paper: Project	Paper: Software Testing	Paper: Service Marketing
	Semester: VI	Semester: VI	Semester: VI	Semester: VI	Semester: VI	Semester: VI
Apr-21	HTML 5: Introduction , form elements - Date, Date Time, Email, N u m ber, Range, Tel, Color, U RL, Date Time Local, Month , Week, Time, Placeholder Attribute, Aittofocits Attribute, Required Attributes , HTM L Audio , Video	Environment Setup: Developing for android installing the android SDK, Installing the updates to the SDK, Android Development Tools (ADT) Plugin, developing with Eclipse. Create Android Application, Create Android Virtual Device, and	Information Technology Act 2000: Cyber Crime : Meaning and Nature Terms used in Cybercrime : Hacking, Cyber Space, Leapfrog Attack ; Meaning and its effects on Cyber users Teenage Web Vandals, Cyber Fraud, Virus on the Internet, Defamation, Harassment and E- mail Abuse, Cyber Pornography,	1. The project should be done in Gore specialization area of B.B.A course only.	Introduction : Fundamentals of Testing What is Testing? Typical Objectives of Testing , Testing and Debugging Why is Testing Necessary? Testing's Contributions to Success Quality Assurance and Testing Errors, Defects, and Failures Defects, Root Causes and Effects Seven Testing	introduction : Service Marketing, Concept, Nature of Services, Characteristics of Services, Classification of Services, Need and Importance of Service Marketing, objectives and Problems of Service Marketing, Difference between Goods and Service, Difference between Software Products and Software Services
May-21	XML: Concept of XML, features of KML, Writing XML elements attributes etc. XM L with CSS, programs on it. XM L with DSO, program s on it. XM L Namespace, XM L DTD, programs on it. XM L schemas, waiting simple sheet using XS LT, SAX Parser, DO M Paiser, Introduction to SOAP, Examples of XML	Application Components: IT Application Components Activities, Services, Broadcast Receivers, content Providers. Anatomy of Android Application, The Main Activity File, The Manifest File, The Strings File, The R File, The Layout File, Running the Application. Types Of Android Application:	IT Contracts and Standards Contracts in the InfoTech World, Contract Formation on Internet, Terms and Conditions on Contracts NIST: National Institute of Standards and Technology; Objectives and working Copyright - Meaning, Ownership and Assignment, License of Copyright,	2. Comprehensive case study (covering single organization/multifunctional area problem, formulation analysis and recommendations)	Testing Throughout the Software Development Lifecycle Software Development Lifecycle Models Software Development and Software Testing Static Testing: Static Testing Basics Work Products that Can Be Examined by Static Testing Benefits of Static Testing	Marketing Communication: Meaning, Elements of marketing communication, Process of marketing communication The Customer, The Business Environment and The Media, Role of Marketing Communication, Approaches in Marketing Communication Corporate and Marketing oriented,

Jun-21	jQuery - I: Introduction to jQuery, Syntax Overview Anatomy of a jQuery Script, Creating first jQuery script Traversing the DOM, Selecting Elements with jQuery, Refining & Filtering Selections, Selecting Form Elements Working with Selections - Ciraining, Getters & Setters CSS,	Resources Organizing & Accessing: Alternative Resources, Accessing Resources. The Dalvik Debug Monitor Service, the Android Debug Bridge. UI Layouts: Android Layout Types, , Text View Attributes, AutoComplete Text View Attributes, Button Attributes, Image Button	Technologies and Services :Firewall, DoS, Digital Signature, Digital Signature Certificate, Packet sniffer, SSL, HTTPS, Pen Register CERT : Cyber Security and Protection to Cyber Users : National Cyber NCSP 2013 : meaning, Aim and Objectives, Reasons of NCSP 2013,	3. Inter-organizational study aimed at inter-organizational comparison/ validation of theory/survey of management services.	Differences between Static and Dynamic Testing Review Process Work Product Review Process Roles Test Techniques: Categories of Test Techniques Choosing Test Techniques Categories of Test Techniques and Their Characterfistics Black-box Test Techniques Equivalence Partitioning Boundary Value	Promotion and Distribution of Services: Promotion Meaning and Concept, Objectives in Service marketing, Advertisements and Sales Promotion of Services, Distribution: Concept, Channels of Distribution, Obstacles in distribution, Recent Trends in distribution,
Jul-21	jQuery - II : Manipulating Attributes, Utility Methods Events - Connecting Event to Elements, Name spacing Events, Event handling, Triggering Event handlers, Event Delegation JQuery Effects -hide/show, fade, sli de, animate, callback, stop Interactions — Drag gable, Droppable,	Intents and Filters: IN Intent Objects, Android Intent sandard, Actions, Data, Category, Extras, Flags, Component Name, Types of Intents: Android Application Life Cycle. Fragments: The Fragment Life-Cycle, Fragment States, s. Event Handling: Event Listeners & Event Handlers, Event Listeners Registration.	Strategies NCSP 2013 NSA : National Security Agency Consumer Protection Act 1986 (with Amendments 2019) • Essential terms in Consumer Protection Act, Consumer Complaint, Defects in Goods and Services, Restrictive and Unfair Trade Practices, Instance or Unfair Trade Practices,	4. Evolution of any new conceptual / theoretical framework. 5. Field study (empirical study). 6. The project can be based on primary or secondary data	Analysis' Decision Table Testing State Transition Experience-based Test : Techniques Error Guessing Exploratory Testing Checklist-based Testing Test Case What is Test Case? , How to write effect test case, features of good test case, Format for Manual Test Case Writing	Service Process and Performance: Service process Concept, Steps in Service Process, 7 P's of Service Marketing Mix, Performance in Service Marketing Concept, Monitoring of Marketing Performance, Triangle Model for Performance, Special Service Marketing tics



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Head of Dept

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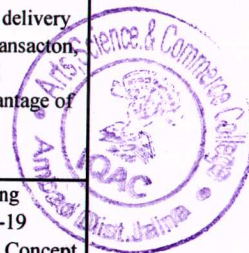
Department of B.C.A

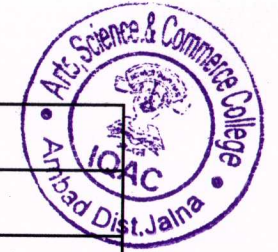
Month	Class: BCA T.Y	Class: BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y
	Paper: Management Accountin	Paper: SQL 2017	Paper: Visual Basic	Paper: Orgnizational Behavior	Paper: Software Engineering	Paper: Bankng & Insurance
	Semester: V	Semester: V	Semester: V	Semester: V	Semester: V	Semester: V
Jun-23	Introduction to Mang A/c: Meaning, Defination, Features, Scope, Imoprtance and Function Difference between Mang A/C, Fin A/C, Cost A/C Advantages and Limitations of Mang A/C.	Introduction To DBMS: DBMS and data models. Intro to Basic Data type, Advantages of DBMS Understanding client and server, intro to TSQL,history and Featres and type of TSQL.Commands	Intro to Visual Basic: Intro IDE Overview, GUI, Programmming Language, How t use VB edition Installation. Intro to VB Programming: Intro,	Evolution of Management thought: Classical School to Contingency School. Contribution of Management thinkers and proponents: Fredrick Taylor, Max Weber, Henri Fayol, Frank and Lillian Gilbreth, Henry Gantt, Elton Mayo and others. OB Studies and Experiments:	Overview of systems analysis and desing system concept : Type of System, sys life cycle role & skill of Sys analyst, Models A) Current trends in Software Engineering B) Information requirement Analysis : DAT, DTD, DT, SE, FDD, DD	Banking in india: Meanig and definition of bank, commercial bank Structure, Function, credit creation of commercial bank, Co-Operative Bank & Regional Bank intro, obj, structre, organixation. Reserve Bank of India: Intro, Organization,s
Jul-23	Analysis and Interpretation of Fianncial Statement: Meaning, Defination, Definition, Scope of Fiancial Statement. Tools of F/S - cpmparative Financial statemnt ,common size financial statement,Trend Analysis.	Intro to SQL Server: Advantages and browback of SQL Server, comparison between SQL and Oracle, Install step of Server Connecting to Server Sever Type, Server Name, Authentication Models- SQL server, Windows, SQL Sever Mangement	Visual program and Event- Driven program, A simple Program, Variable- Public, Private, Static, Const, Datatye, Declaring Variable, Arithmetic Operators, Formatting Data, Branching and Looping Statement. Array and Procedures,	individual Dyna mics -I Personality: Conceptualization, Discussions on Type. vs. Trait Theory and Nature vs. Nurture Type Theory: Freud 's Theory of Psychosocial Stages, CarlJung's Theory of Personality , Theory X vs. Theory Y and others.	Software Analysis: Requirements Engineering; Feasible study : Economical,Social, technical Requirement validation and management Cost Estimation Model; Activities in Requirements Determination: Reuirement Anticipation, Investigation, Specification.	Banker & Customer : The reationship between banker and customre, statutor obligation to honor cheque - banker lies, duty, right to claim incidental charges, right t charge interest Account of Customer : Precaution for accounting opening, KYC,

Aug-23	Ratio Analysis: Meaning, Advantages, Limmitation, and classification of ration. Gross Profit Ratio.Net Profit Ratio, Return on Capital Employed ratio, Inventory Turnover ratio, Debtors & Creadit Turnover Ratio,	Transaction Management: Transaction concepts- Begin, Commit, Rollback, Save, Log File in Transaction Mang Concurrency Control :	functions: Types of array, User defined function OOPs- Class, Object, Event and Inheritance. Eception Handling- Intro When Error handling use, simple error handling, error handling example error object, mouse handling	Individual Dyna mics - Theories of Motivation: Maslow's hierarchy of Needs Theory, Herzberg's Two-Factor Theory,McClelland Hu man Motivation Theory, Alderfer's ER G Theory, Vroom's Expectancy Theory,	Activities in Requirements Determination: Reuirement Anticipation, Investigation, Specification. Software requirement specification Structure and content of the requirement specification analysis modelling	Type of A/C. TDS. Special type of customer. Principles of Sound lending. Electronic Baking : Intro, traditional VS E banking, Electronic delivery channels, e banking transaction, truncated cheques and lectronic cheques advantage of e banking,
Sep-23	Current Ratio, Liquid Ratio, Proprietary Ratio. Inventory Turnover ratio, Debtors & Creadit Turnover Ratio, Current Ratio, Liquid Ratio, Proprietary Ratio.	Intro Concurrency control, Need For Concurrency, Looking Protocols, Transaction Recovery,SQL Facilities For Concurrency	Basic GUI Concepts: Intro to Form and Control- Create class, Object, Add Reome Forms and Controls, hide show method, load unload statement, Working with Properties and Method of Controls. MENU: Creating a menu system,	Adam's Equity Theory, Skinner's Reinforcement Theory, Locke's Goal Setting Theory, Communication: Concept, Process, Communication channels, Barriers and Implications for Managers, Group Development: Declination, Foundations of Group Behavior,	Type fo requirement, Structurre and standards followed for SRS, Characteristics of good SRS	RTGS NRFT E banking during & post COVID-19 Pandamic Insurance : Concept and importance, principles of insurance, Growth and development of indian insurance industry,
Oct-23.	Fund Flow Statement: Meaning uses Limitations, Sources and uses of funds. Funds from Operation, Statement showing changes in working capital. Cash Flow:	File Structure and Index: Operation on File, File of unordered and oordered records, over view of file Organization, index structure for Files, Multilevel Indexing using B and B++ Trees	Modifying and Adding menu item at run time, Data access method Data Control, Connectivity With SQL server, Operating of database through coding ADO data control, advantage of of ADOC over DC	Decisiorl Making: Group vs. Individual D M Organizational Structures: Concept, Design Types, Chain of Command, Stress Management: Concept of Work Stress, Emotional Intelligence, and Measures for managing Stress.	Maintenance: Type of maintenance Maintennce cost Reverse Enginnering Intro to legacy system.	regulation of insurance , Intro to Life insurance and General Insurance life policy conditions, Risk and insurance

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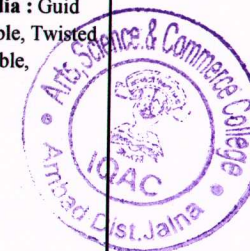
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Annual Teaching Plan (Year: 2023-2024)

Department of B.C.A

Month	Class: BCA S.Y	Class: BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y
	Paper: Cost Accountancy	Paper: Java Programming	Paper: MIS & DSS	Paper: Business Law — II	Paper: Entrepreneurship	Paper: advance networking
	Semester: IV	Semester: IV	Semester: IV	Semester: IV	Semester: IV	Semester: IV
Dec-23	Cost Accounting : Definition, Nature, & Scope of Cost Accounting, Distinction between Cost, Financial and Management Accounting, Classification & Elements of Cost, Material, Labor, Expenses, Direct & Indirect Cost, Overheads	Overview Of Java Language: Java history, java features, how java differ from c and c++, JVM, java program structure, type comment, java tokaens, control statement.	Concept, Definition, Characteristics, Objectives, Role and inn pact of MIS, Management as a control system, MIS: A support to the management, Application of M IS, Organization Effectiveness, Decision making concept, Decision making process, Organizational decision making &M IS and decision	Contract Act: Special Contracts - Law of Indemnity, Guarantee Contracts, Law of Bailment & Pledge, Agency Contracts. Company Law 2013: Introduction of Company Act, Meaning & Definitions, Features of Co. Act	Originating Theories of Entrepreneurship: Economic Theory, Sociological Theory, Psychological Theory, Innovative theory of Entrepreneurship by Joseph Schumpeter. Theory of Achievement Motivation by MC Clelland The Kakinada Experiment. Hoselitz sociological theory Clelland the Kakinada Experiment.	Basic of computer network : computer netwrok, definition, goals, application, structure, components, topology, communication types, Mopdes of communication
Jan-24	Costs : Prime Cost, Factory / Works Cost, Administrative Cost, Total Cost, Cost of Sales Preparation of Cost Sheet :	Classes, Objects and Methods : Intro, defining class, creating Objects, use of this key word method parameters, nethod overloading, static member, final method, inheritance nad its types	Information: A quality product. IT enabled services, e business, wireless technologies etc. In formation system in business, Computer based In formation system, 1 imitation and disadvantages of IS, knowledge and knowledge management system, business intelligence	, Types of Company, Share Capital & its types, Incorporation- Formation of company, Memorandum & Articles of Association SEBI Act 1992 :- Introduction of the Act, Meaning & Definitions, Basic Characteristics of the Act	Types of Entrepreneurship: Recent Trends Sociopreneur, edupreneur, ecopreneur and agropreneur. Women Entrepreneurs, Self Help Groups Identification of Business Opportunities: Environment scanning meaning and benefits,	Network Models : Design issue of the layer, protocol hierarechy, ISO-OSI Reference Model, Internet Model, Comparison of ISO-OSI & TCP/IP, Addressing

Feb-24	Material: Purchasing, Purchase Requisition, EOQ, Purchase Procedure, Receiving & Recording of Material, Documents, Goods Received Note, Bin Card, Issue of Materials, Pricing Method, LIFO, FIFO, Average Method	Interface, package and Exception Handling: Defining and implimaenting interface, inner classes packages- create package, access package, type of error, multiple catch statement	System concept and control, types of system, general model of M IS, need of system Analysis, System Development Life cycle, development process of MIS, Strategic design of MIS, Business-process, Process mode of an organization. M IS and BPR.	, Obligation of SEBI, issue of Capital, Discloser, Listing & its role in Stock Market Cyber & I.T. Act 2000 (with Amendment) : Need & Significance in modem era, Character & User of Internet Technology, On Line Contracts, Hacking, Phishing, Privacy Terrorism, Privacy, Section 66A	Market Research: Meaning, need and importance of market research. Techniques in Marketing Research - Field Survey Technique, Test Marketing, Delphi Technique, Desk Research, Observation Method and Experiment Method	Transmission Media : Guid Media, Coaxial Cable, Twisted pair, fiber optics cable, unguided media
Mar-24	Wages : Compensation, Methods of wage payment, Fixed Rate, Piece Rate, Contract, Bonus, Halsay & Rowan Plan	String and stresam: string classes, string buffer class, types of stream classes, byte stream classes. Applets: Intro to applet type sof applet applet vs application, applet class.	DSS: concept and Philosophy, objectives and characteristic of DSS, major functions of DSS, Components of DSS, DSS generator and tools, I imitations of DSS, GDSS, components of G DSS, Knowledge system, Expert system, application of ES, benefits and Limitations of ES, ERP, ERP models	Micro, Small & Medium Enterprises Development Act 2006 {MSMED Act - 2006} : Introduction, Definitions, Features of the Act, Establishment of National Board of MSME, Power & Duties of the Board, Classification of MSME, Promotional Measures of the Act.	Innovation in Entrepreneurship: Purposeful innovation concept, need, process, principles of purposeful innovation, Incubation centers Meaning, Services and role of incubation centres	Netwrok Connectivity Device : categories of connectivity devices, passive & active hub, repeaters , bridge, transparent briges, sourse routing bridge



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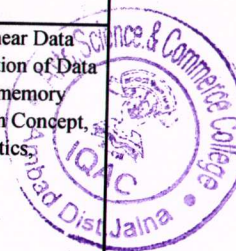
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

Department of B.C.A

Month	Class: BCA S.Y	Class: BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y
	Paper: Principles of mangeme	Paper: OPPS using C++	Paper: Business Law I	Paper: DBMS	Paper: E- Business Ess	Paper: Data Structure & algo
	Semester: III	Semester: III	Semester: III	Semester: III	Semester: V	Semester: III
Jun-23	Intro of Management : Introduction, Meaning and concept of mang, nature, scope, characteristics and importance of mang, role and functions of mang, level of mang, difference between mang and admin,	Introduction to C++: Basic concepts Object, Data Abstraction, benefits & applications of OOP Creating a source file, compiling and Linking, Tokens, Expressions and Control structures: Variables - Declaration and Dynamic initialization Reference variable, Operators in C++, Control structures	Indian Contract Act 1872: Meaning and Definition of Agreement and Contract. Features of Contract Act, Types of Contract, Essentials of valid contract, Offer and Acceptance, Breach of Contract Sell of Goods Act 1930: Meaning and Important Definition Sell of Goods Act	introduction (Theory) : Data, Tables, DBMS, Characteristics of DBMS, need of DBMS, attributes entity, E-R Diagrams, relationships, ODBMS, Two tier and three tier architecture,	Introduction to e-business : Origin, Concept, Nature ,Definition, Features, Merits, Demerits.	Introduction to Data Structure: Types, Primitive, Secondary, Simple Compound, Linear and Non Linear Data Structure. Linear Data Structure: Array, Linked List,
Jul-23	brief review of mang thoughts of F. W. Taylor, Henry Fayol, Elton Mayo, Peter Drucker etc. Managerial Planning and Decision Making: Planning: meaning and definition, characteristics and importance of planning,	Functions in C++: intro, the main function, Function prototyping, Call by reference, Return by reference. Inline function making an outside function inline, Arguments Classes and Objects: Intro, Creating a class and objects.	Agreement to sell vs. Contract of sell. Essentials of valid contract of sell, Condition and Warranty, Sell by Auction and Hire Purchase Agreement, Buyers and Sellers Rights and Duties,	Transactions (Theory): Concept of transaction, ACID properties, Transaction and system concepts, States of transaction, Serializability, backup and recovery	E-business Environment: Information society, building process for communities, multi — option society, ethics in electronic business. E-business & ICT : Meaning, history, importance of internet	Queue, Stacks, Operations on linear Data Structure, Memory Representation of Linear Data Structure Non Linear Data Structure: Tree, Graphs, Binary Tree Structures, Networks,

Aug-23	planning process, benefits of ideal planning limitations of planning, types of plans. Forecasting, Decision making. Staffing and Organization: meaning and definition of staffing, need and importance of staffing.	Defining member functions inside and outside class Static data members and static member functions, Array of objects. Objects as function arguments, Friend functions, Returning objects, Constructors, Types of constructor, Destructors.	Negotiable Instrument Act 1881: Concept and Imp definition of Act, Promissory Note and Cheque, Char of the Act, Dishonor of Negotiable Instrument, Discharge of Negotiable instrument, 8il Is of Exchange	Concurrency (Theory): Concurrent transactions, Two —phase locking techniques Concurrency control, Locking techniques, E-R Diagram, Deadlock	, internet v/s online service, basic, knowledge of computer network, world wide web, web page, website.	Operations on Non Linear Data Structure, Implementation of Data Structure in computer memory Algorithms: Algorithm Concept, Features & Characteristics.
Sep-23	Selection & Organization - meaning, definition and importance types of organization. Directing and Controlling : Directing: meaning, definition and importance of directing, principles	Inheritance : Introduction, Base class and derived class e amples, Types of Inheritance, Polymorphism : Compile Time Polymorphism, Function overloading	Consumer Protection Act (Amended Act 2002): Meaning and Important Def4nit ion Of Act, Significance of Consumer Protection, Objectives of the Act, Workings of Consumer Protection Council.	Normalization (Theory): E.F. Codd rules, Normal forms based on primary keys(INF, 2 NF, 3 NF, BCNF) MS-Access	E-Business Models & Supply Chain Management: Classification of E business models, definition of supply chain management elements of SC, key issues in SCM.	Designing of Algorithm for Insertion & Deletion of Records in Array, Linked List, Stack, Queue, Traversal of Linked List, Stack, Queue, Binary Tree
Oct-23.	Controlling: meaning, definition, need and importance of control. process of control, techniques of control Recent Trends in Business Management: Change mang. disaster mang, TQM, Bench Marking, Six Sigma, Mang development: meaning, definition, Need and	, Operator Overloading Intro, Overloading unary and binary operator, Overloading using friend function, Overloading insertion and extraction operators, Runtime Polymorphism, pointers to objects. pointer	Composition of consumer disputes redressal agencies. Cyber and IT Act 2000: Important Definition - IT Act 2000. Cyber Fraud and Cyber Cheating, Copy right Meaning and Definition, License of the Copy Right, Digital Signature, Digital Signature Certificate.	(Theory/ Practical): Primary Key, Foreign Key, Creating tables in MS-Access, creating primary key, foreign key and create queries to fetch data.	E-Payments : E-Money and E-payments, different forms of E-payment, E-banking RTGS, NEFT, EFT, Internet Banking, Mobile Banking, GOOGLE PAY, PA YTM etc	Graph Theory and Sorting: Graph Theory: Terminology, Sequential Representation of Graph, Adjacency Matrix, Linked List Representation of Graph, Operations on Graph, Traversing Graph, Bubble Sort , Selection Sort, Merge Sort and Insertion Sort



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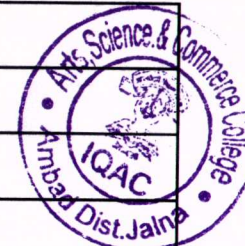
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Matsyodari Shikshan Sanstha's

Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

Department of B.C.A



Month	Class: BCA F.Y	Class: BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y
	Paper: Accountancy II	Paper: Industrial Organisation	Paper: Mathematics	Paper: Programming in c	Paper: Principles of management	Paper: Basic Web technology
	Semester: II	Semester: II	Semester: II	Semester: II	Semester: II	Semester: II
Dec-23	Goodwill of partnership Firm : Meaning, Need, factors affecting goodwill, methods of valuing goodwill, average profit method, super profit method	Concepts of industrialization: What is industrialization, its determinates problem of industrialization, corporate social responsibility of business	Logarithms, Rules for multiplication division and exponentiation	Introduction and importance of c language, Constants, variables and data types, character set tokens, constant, keywords and identifiers	Definition, Nature & Scope of management, importance, management as an art, science and profession, different approaches to management	Event handling & validations on form: javascript handling event on button, textbox, radio button, checkbox, drop down box, text area etc,
Jan-24	Accounts of non trading concern : Preparation of receipts and payment account, income and expenditure account and balance sheet	Scale of operation and size of business units, economics of scales meaning of large medium and small size business	Permutations, combinations, and binomial theorem	Operators and Expressions: Arithmetic, relational and logical operators assignment, condition between special operators	Evolution of management thought contribution of Taylor, Fayol, Follet, Drucker	Form validation : numeric, alphanumeric, alphabets and any combination of these

Feb-24	Company final accounts : Treatment of provisions, treatment of dividends, interim & final dividends on shares, income tax on dividends, payment on dividends, TDS	Concept of concentration of power : combination, process of integration vertical horizontal lateral and diagonal and service integration types - pools, trusts etc. Holding companies,	Determinate - different methods of calculating determinants	Decision making and looping : IF statement switch statement, GOTO statement WHILE DO and For Statement Array : one dimensional two dimensional, Handling of character set	Management Process, Planning, organizing, staffing, direction, controlling, coordination, leadership	VBScript introduction to VBScripts, data types, control; structures and looping functions in vbscript, client side web scripting, validating forms DOM, Handling errors
Mar-23	Single Entry System : Concept ascertainment of profit from records of single entry method	Industrial Policy Resolutions of 1991 7 WTO Corporate structure of business and essential of corporate Governance	Matrix - representation - addition, subtraction, multiplication and division inverse transpose, adjoint cofactor singular arrays vectors.	Structure and Unions: Definition & initialization and assigning value to members arrays of structures and arrays within structures Pointer Declaration and initialization of pointer, File maintenance, user defined functions.	Functional Management, Human Management, Marketing management, financial management, material management.	Web publishing and advanced HTML concepts : Publishing the site, the realities of publishing and maintaining a web site, intro of search engine optimization, meta - information, overview of client/server Programming on the web



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Department of B.C.A



Month	Class: BCA F.Y	Class: BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y
	Paper: Operating System I	Paper: Accountancy I	Paper: Industrial Economics	Paper: Business Statistics	Paper:Communicaton Skills	Paper: Basic Web Technology
	Semester: I	Semester: I	Semester: I	Semester: I	Semester:	Semester: I
Jun-23	Operating System Concept, Its Necessity, Functions Memory Managemen :Device Management	Double Entry accounting system Introduction and concept & advantages, accounting cycle types of account,	1. Definition and scope of business economics – micro macro economics, significance of economics role in business	1. Introduction, Origin & Growth of statistics, Definition, Function, Scopes and Limitations. 2. Organising Statistical survey, Planning the survey,	1. Meaning, Nature, Scope, Importance, Function and Limitations of communication 2. Elements of Communications – Principles of Communication, 3. Communication Skills:a)	1. Introduction to html, www, w3c, web publishing, common HTML, Tags Physical & Logical, Some basic tags like, changing background color of page, text color etc., Text formatting tags,
Jul-23	,Job Scheduling Management,Types of Operating System. Disk Operating System(DOS) Sytm Prompt,Default Device Copying,Deleting Files, Directory Handling.	journalizing rules subsidiary book ledger trial balance.Cash Book Single Column and double column Trading Profit and loss account and balance sheet	decision economics systems.2. Indifference sure analysis Properties of indifference curves consumer equilibrium,	Scope Of Survey Techniques of data Collection 3. Sampling and sample designs. 4. Classification and Tabulation of data	speaking – Principles of effective oral communication, speech preparation – guideline for effective speech Listening skills – telephonic and group communication – Board and union meeting– interview	text, image lomks, image mapping Table :Table, Frame, Form Introduction with text box, text area, buttons, list box radio, checkbox header & footer, index form crating mobile responsive videos songs.
Aug-23	Windows : Exploring Window Settig,control panel,Remove Add Hardware,Printers,Data Time Regional Setting,Game Recycle Bin	Partnership account Introduction Preparation of Partnership final accounts.	income effect price effect and substitution effect.3. Production – Meaning _ Laws of returns. Economics Development – Concept, of economic	5. Measures of Central value – Mean, Median and mode6. Measures of dispersion – Range, Quartile Deviation, Standard Deviation.	, their types, techniques and styles Written Communication: Meaning and objective of written communication – medias of written	3. CSS Introduction to style sheet, types of style sheets – inline, External, Embedded CSS, text formatting properties, CSS border, margin properties,

Sep-28	Study Of Internal & External Commands Of MS-DOS DIR, DATE, TIME, CLS, COPY CON, COPY, DELETE, REN, FIND, RESTORE, VER	Depreciation introduction meaning and definition methods of depreciation	indicators of economic development factors promoting economic development obstacles in the economic development of under developed countries	7. Correlation Analysis: Introduction, Utility of the study of correlation, correlation and causation	features of written communication – preparation, analysis and interpretation of reports. Business letter writing – Application, references, Preparation of Tenders and Quotations –	Positioning use of classes in CSS, Color properties, use of <div> & , padding, CSS multiple columns.
Oct-28	,TREE MOVE.MEM,SYS,XCOPY, BUFFER,GOTO,END	1. Fixes installment method 2. Reducing balance Method.	features of under development economy with reference to india	Type of correlation – Positive and Negative Correlation Karl Pearsons coefficient of correlation.	Drafting of sales circular letters. Use of electric equipment in business Communication – A hands on Experiments on Telex, Fax Pager Cellular Phone, Computer and internet.	4. JavaScript Basic Introduction to Java Script, variable, commands, operations, syntax, objects, data types, JavaScript DOM theory.

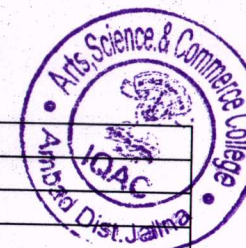
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Arts, Science & Commerce College, Ambur Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

Department of Zoology



Month	Class: B.Sc. I	Class: B.Sc. II	Class: B.Sc. III
	Paper: I and II	Paper: VII and VIII	Paper: XV and XVI
	Semester: I Theory	Semester: III Theory	Semester: V Theory
June 2023	Protista: General characters & classification. Animal like protist e.g. Amoeba, Noctiluca. Plant like protist e.g. Diatoms, Stentor. Fungi like e.g. water molds, phytophthora infestans, Yellow slime mold. Euglena. Locomotory organelles and locomotion in Euglena & Amoeba. Reproduction in protozoa; Asexual & Sexual conjugation. Introduction to Cell Biology: General structure of Prokaryotic & Eukaryotic cell. Energy efficiency of small cell. Cell cycle. Mitosis & Meiosis.	Basic of developmental Biology: Introduction, Scope and concept of developmental biology, Theories of developmental biology, Preformation, Epigenesis, Germplasm Introduction of Ecology: Definition, Introduction and Scope of Ecology	* Introduction of ecology. Abiotic environmental factors-Temperature, Light, Adaptation to salinity and moisture * Introduction to biotechnology -Biotechnology in India
July 2023	Porifera-General characters & classification up to classes. Spicule & Gemules in Porifera. Canal system in Porifera. Cnidaria: General characters & classification up to classes. Polymorphism in Coelenterates. Cell environment: Chemical bonds, Inorganic- water, salts and ions. Organic compounds- Proteins, Carbohydrates, Lipids, Nucleic acids, Vitamins. Cell organelles: Plasma membrane-Structure, function & fluid mosaic model. Mitochondria: Structure, function & Electron Transport system.	Spermatogenesis, Oogenesis, Structure of human sperm and ovum, Vitellogenesis, Types of eggs. Types of Ecosystem- Marine, Pond, Forest and Desert Ecosystem. Food Chain, Food web, Energy flow and Ecological pyramids.	* Biotic environmental factors Composition, Predation, Commensalisms, Mutualism, Parasitism * Genetic engineering: Concept and definition. Steps involved in gene cloning Application

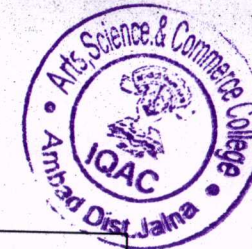
Aug-2023	Platyhelminths: General characters & classification up to classes. Taenia solium – Life history, pathogenicity, Parasitic adaption & Control measures. Nematelminthes: General characters & classification up to classes. Ascaris lumbricoides- Life history, pathogenicity, & Control measures. Structure and Function of Endoplasmic reticulum, Ribosomes, Golgi bodies, & Lysosomes, Microtubules, Microfilaments & Centrioles.	Mechanism of Fertilization, Monosperm & Polyspermic fertilization, Significance of fertilization. Salient features of cleavage, Types & patterns of cleavage. Structure of community, Ecological niche, Ecotone and edge effect. Community succession and climax.	*Population: concepts, characteristics of population; Population growth and regulation. *Isolation & amplification of desired gene Genomic library, cDNA library In vitro synthesis of gene Polymerase chain reaction. Enzymes in gene cloning
Sept-2023	Annelida: General characters & classification up to classes. Metamerism in Annelids. Arthropoda: General characters & classification up to classes. Arthropods eye and vision. Metamerism in insects. Nucleus: Structure and Function of Nucleus. Structure of DNA & Types of RNA.	Morulation, Blastulation Fate map, Gastrulation process up to the formation of germ layers with respect to frog. Community and Biotic interaction: Definition and basic concepts and types. Structure of community, producer, consumers & decomposers. Characters, Ecological niche, diversity, abundance, dominance, Ecotone, edge effect. Community succession; example of succession and climax	*Community: concept and types. Structure and character of community, Community succession *Cloning vectors -Gene transfer methods, Ecosystem:
Oct-2023	Mollusca: General characters & classification up to classes. Torsion in Gastropods. Echinodermata: General characters & classification up to classes. Water vascular system in Star Fish (Asterias). Cancer Biology & Ageing: Characteristics of cancer cell. Types of Cancer- Carcinomas, Sarcomas, Lymphomas, Leukemia etc. Introduction to cell ageing. Effects of radiations on cells (UV radiations, photodynamic sensitization).	Structure of Hen's egg, fertilization and cleavage, formation of primitive streak in chick. Development of foetal membrane in mammals, Placentation in mammal. Biotic interactions- Competition, Predation Commensalism, Mutualism and Parasitism. Population Ecology: Definition and basic concepts, Characteristics of population; Density, Natality, Mortality, Dispersion & Age distribution, Population growth & Population regulation.	Ecosystem: components and dynamics of ecosystem, Marine, pond, Forest and Desert ecosystem. *Screening of cloned gene -Problems and solutions for gene cloning



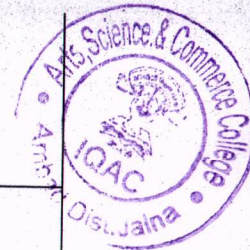
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Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2023-2024)

Department of Zoology



Month	Class: B. Sc. I	Class: B. Sc. II	Class: B. Sc. III
	Paper: IV and V	Paper: XI and XII	Paper: XIX and XX
	Semester: II Theory	Semester: IV Theory	Semester: VI Theory
Dec-2023	Protochordata: General features & Phylogeny of Protochordata. Agnatha: General features of Agnatha, classification & affinities of cyclostomata up to classes. Introduction to Chordates: General features & classification of phylum Chordates up to classes. Mendelian Genetics & its extensions: Overview of Mendelian genetics- Epistasis & Hypostasis multiple gene & multiple alleles. Sex limited and sex influenced inheritance, Linkage – Definition, types and significance.	Concept of organic evolution and Origin of life: Definition and concept organic evolution, Theories of Organic Evolution in brief, Preformation theory Bear's Law, Biogenetic law, catastrophism, Lamarckism, Darwinism and Germplasm theory. Origin of Life – Definition, Abiogenesis, Biogenesis, Chemical evolution of life. Carbohydrates: Monosaccharide's, Disaccharides, Polysaccharides and Oligosaccharides Metabolism: - Glucogenesis, Gluconconeogenesis, Glycolysis, TCA & Oxidative Phosphorylation	* Organic evolution: concept. -Theories of organic evolution *Animal cell culture and requirements -Application and limitations of cell culture, Origin of Life: Definition, Abiogenesis, Biogenesis, Chemical evolution of life. Evidences of Organic Evolution *Manipulation of reproduction and transgenic animals -Transgenic animals methods
Jan-2024	Pisces: General features, Migration & Parental care in Fishes. Amphibia: General features & classification up to order. Parental care in Amphibia. Chromosome Structure: Eukaryotic chromosomes- Types of eukaryotic chromosomes, eukaryotic & prokaryotic organization, giant chromosomes. Gene Mutation: Natural & Induced mutation – Types of gene mutation, Types of chromosomal aberrations, spontaneous & mutations.	Proteins: Classification -simple, conjugated and derived proteins, Structure of proteins: - Primary, secondary, tertiary and quarterly. Metabolism: - Deamination and transamination. Structure of amino acid & peptide bond formation. Immunoglobulin's-biological significance. Evidences and basic patterns of Evolution: Anatomical evidences, Embryological evidences, Paleontological evidences. Adaptations:-Aquatic, Terrestrial, Fossorial, Volant and Desert Sequential and Divergent evolution. Microevolution- concept, silent features & Mechanism with example Macroevolution- concept, silent features & Mechanism with example. Megaevolution- concept, silent features & Mechanism with example	Darwinism: Natural selection theory, Artificial selection theory and sexual selection theory. -Elemental forces of evolution *Protein engineering: -Site-directed mutagenesis Commercial production of enzymes

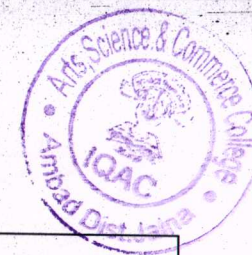


Feb-2023	Reptilia: General features & classification up to order. Identification of poisonous and non poisonous snakes. Snake venom, symptoms, effect and first aid treatment of snakebite. Sex Determination: Chromosome Theory in sex determination, Genic balance theory of sex determination. Triploid inter sexes & Gynandromorphs in Drosophila. Sex linked inheritance, Human karyotype, Pedigree analysis-Inheritance of human traits.	Lipids: Types of Lipid & Biological role. Metabolism: B-Oxidation and cholesterol biosynthesis. Ketosis, Ketogenesis and Ketolysis. Enzymes and Vitamin: Factor affecting enzyme activity and Mechanism of enzyme action Sources and deficiency of vitamins. Elemental forces of evolution. Concept and role in Evolution- Mutation, Recombination Natural Selection, Isolation and Genetic Drift.	Basic patterns of evolution Sequential and divergent evolution. Microevolution, Macro evolution, Mega evolution -Species and speciation
Mar-2024	Human Genetics: Dizygotic & Monozygotic twins, Use of human genetics in medical science, Gene Therapy & DNA Fingerprinting, Gene pool, Gene frequency, Hardy- Weinberg Law Aves: General features & classification up to order. Volant adaptations in Birds, Migration in birds, Adaptation in feet of birds. Mammals: General features & classification up to order. Origin of Mammals (Prototheria, Metatheria & Eutheria) Adaptive radiation in Mammals.	Endocrine system of vertebrates: Significance of endocrine and neuro - endocrine system. Endocrine glands- Morphology, Structure and function Pituitary gland, Thyroid gland Adrenal gland, Pancreas, Pineal Gland, Testis and Ovaries. Species and Speciation. Morphological, Genetical, Biological concept of Species. Speciation- Defination, Concept, Mechanism- Allopatric, Sympatric and Parapatric speciation.	*Gene therapy and DNA fingerprinting - Human disease-diagnosis using biotechnology, Fossils: Definition , fossil formation Types of fossils. *Applications of biotechnology Agriculture, Medicine, Industry

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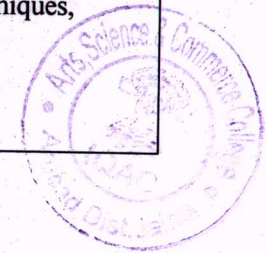
Annual Teaching Plan (Year: 2023-2024)

Department of Zoology



Month	Class: B.Sc.I Paper: III Semester: I Practical	Class: B.Sc.II Paper: IX and X Semester: III Practical	Class: B.Sc.III Paper: XVII and XVIII Semester: V Practical
June 2023	Study of animals belonging to Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Aschelminthes and Annelida. Study of Prokaryotic cells - Grams staining technique. Study of Eukaryotic cells using suitable staining technique.	Study of Whole mount of different types of Sperm. Types of Egg and cleavage pattern. Estimation of Dissolved oxygen from given water sample. Estimation of Water Alkalinity from given water sample. Estimation of population density by quadrat method.	*Estimation of productivity of pond ecosystem -Determine the following parameters of soil. pH, alkalinity chlorinity salinity -Principle and application of gel electrophoresis, column chromatography, high pressure liquid chromatography, centrifuge, laminar flow, spectrophotometer
July 2023	Study of animals belonging to - Onychophora, Arthropoda, Mollusca, Echinodermata. Method of protozoan culture. Identification of Protozoan's and Coelenterates in pond water sample Study of cytoplasmic movements in paramecium. Localization of Mitochondria by Janus Green stain.	Study of different stages of frog development. Study of types of placenta in Mammals. Study of microscopic fauna of freshwater ecosystem. Estimation of water holding capacity of given soil sample.	-Analysis of DO, CO ₂ , salinity, chlorinity of water sample. Study of animal association ship -Estimation of total DNA from animal tissue using Diphenylamine method. -Estimation of total RNA from animal tissue using orcinol method
Aug 2023	Temporary mounting of Gemules and Spicules of Sycon, Obelia colony, Parapodium of Neries. Study of diversity of mouth parts in insect:- Mosquito, Housefly, Honey bee, Cockroach, Butterfly. Study of cancer cells through permanent slides. Study of cell organelles through electron micrographs/charts.	Study of whole mount of Chick embryo. Estimation of Salinity/Chlorinity from water sample. Preparation of permanent slides of the following: a) Spirogyra b) Verticella c) Oedogonium d) Daphnia e) Cyclop f) Mysis.	-Estimation of population density by Quadrat method on field and by Simulation method. -Isolation of messenger RNA from animal source using affinity chromatography -Isolation of total DNA from tissue, Preparation of permanent slides of following <i>Spirogyra</i> , <i>Verticella</i> , <i>dogonium</i> , <i>Daphnia</i> , <i>Cyclops</i> , <i>Mysis</i> , <i>Cypris</i> , <i>keretella</i>

Sept 2023	Digestive and Nervous system of Earthworm. Digestive system of Cockroach. Study of Mitosis using suitable material /Meiosis using permanent slides.	Slide preparation of Chick Embryo from Incubated Egg. Visit to Ecosystem: Marine/Fresh water/Desert Ecosystem. Study of animal associations with example Competition, Mutualism, Parasitism, Predation and Commensalism.	DNA electrophoresis by agarose gel, Project report: - Forest or fresh water ecosystem, Demonstration of Animated methods of following gene cloning, restriction digestion of DNA, southern blotting techniques, northern blotting technique
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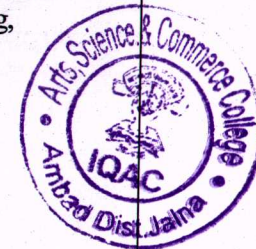
Annual Teaching Plan (Year: 2023-2024)

Department of Zoology



Month	Class: B. Sc. I	Class: B. Sc. II	Class: B. Sc. III
	Paper: VI	Paper: XIII and XIV	Paper: XXI and XXII
	Semester: II Practical	Semester: IV Practical	Semester: VI Practical
Dec-2023	Protochordata: Study of specimens: Balanoglossus, Herdmania, Branchiostoma, Salpa, Doliolum, Oikopleura, Botryllus. Agnatha: Study of specimens: Petromyzon, Myxine. Observation of common mutants of drosophila. Determination of human blood groups A, B, AB, and O, Rh factor.	Preparation of solutions of given percentage, normality and molarity. Study of analytical instrument principle and applications. pH meter Colorimeter, Centrifuge Electrophoresis Study of evidences by using photograph/charts and models- Analogous and Homologous organs, Connecting link & Embryological evidences.	Embryological evidences of evolution with the help of slide/chart/pictures. -Adaptive modification in feet of birds and mouth parts of insects -Sterilization of glassware and chemicals in tissue culture -Preparation of culture media and sterilization, Study of successive stages of evolution with the help of models/charts horse, human
Jan-2023	Fishes: Study of specimens: Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeinis, Anguilla, Hippocampus, Tetraodon/ Diodon, Anabas. Amphibia: Study of specimens: Ichthyophis/Ureotyphus, Necturus, Bufo, Hyla, Alytes, Salamandra. Major and minor problems in genetics. Study of preparation of Normal Karyotype of human.	Factors affecting enzymes activity temperature and pH. Detection of amino acid by paper chromatography. Study of adaptations.	Assay of cell viability using dye. -Effect of pH on acid phosphatase activity, Discussion on patterns of speciation with the help of charts /pictures. Allopatric, sympatric speciation. -Study the homologous and analogous organs. Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin
Feb-2023	Reptilia: Study of specimens: Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophisaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus,	Qualitative test for organic compound- Carbohydrate, Protein Fats. Quantitative estimation of protein from animal tissue using Lawry's method. 3. Study on patterns of speciation with the help of Charts/Models/Pictures- Allopatric Speciation & Sympatric Speciation.	Study of chromosomal aberration -Pure Culture of airborne/water bacteria. -Study of antibiotic resistant/ susceptibility of bacterial culture, Study of geographical era.

Mar-2023 Key for Identification of poisonous and non-poisonous snakes. Aves: Study of six common birds from different orders. Types of beaks and claws Karyotypic study of Down's syndrome, Turner's syndrome & Klinefelter Syndrome. Detection of Barr body from epithelial cell. Problems on sex linked inheritance. Mammalia: Sorex, Bat (Insectivorous and Frugivorous), Funambulus, Loris, Herpestes, Erinaceus. Visit to Zoological survey of India/ Museum/National Park and submit the project Report. Study of gene frequency and mutants of man- Attached and free ear lobe, Colour of eye, Rolling of tongue, Blood group frequency. Human pedigree analysis- various symbols used. Study of permanent slide of sickle cell anemia.	Study of permanent histological slides of endocrine glands. TS. Of Pituitary gland, T.S. of Thyroid gland, T.S. of Adrenal Gland, T.S. of Pancreas. T.S. of Testis, T.S. of Ovaries. Study of successive stages of evolution with the help of Charts/models- a) Horse & b) Human.	Demonstration of Animated methods of nuclear transplantation, hybridoma technique, DNA fingerprinting, Bt- cotton.
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[Signature]
 Dr. R. F. Pathare
 Deptt of Zoology

[Signature]
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Mss' Arts Commerce and Science College, Ambad

ANNUAL TEACHING PLAN (B. Com.)

Department of Commerce YEAR 2023-24



Name of the Teacher: Dr. S.L. Padgalwar

Month	Class: B.Com. F. Y.- Sem. III Paper: Entrepreneurship Development -II	Class: B.Com. S. Y.- Sem. IV Paper: Insurance	Class: B.Com. TY.- Sem. VI Paper: Advertising and Salesmanship
Dec	Market Research: Meaning, Need and Importance of Market Research. Techniques in Marketing Research- Field Survey Technique, Test Marketing, Delphi Technique, Desk Research, Observation Method and Experiment.	Introduction to Insurance: History, Meaning, Definitions, Features, Functions, Scope, Types, Principles, Importance, Contract of insurance, Insurable Risk and its Types Life Insurance Life Insurance: History, Meaning Definitions, Principles, Importance, Types, Procedure of taking life insurance policy, Policy conditions and claims, life Insurance Corporation of India.	Unit I Concept of salesmanship Essential skill and types salesmanship. Advertising publicity, Attitude and value Unit III Advertising and Media Advertising Concept, Meaning, needs, objective, merits and demerits of advertising, Electronic media, social media
Jan	Innovation in Entrepreneurship: Purposeful Innovation- Concept, Need, Process, Principles of Purposeful Innovation. Incubation Centers - Meaning, Services and Role of Incubation Centers. Study of Incubation Centers in Maharashtra.	General Insurance III General Insurance: History & Types (Marine, Fire, Motor, Health, Accident, Crop, Group Insurance, etc.)	Unit II Process of Selling and sales promotion Steps in Process of selling, AIDA concept, Model of selling Concept of selling Emerging techniques,
Feb	Entrepreneurship in 21 st Century: Essential of 21 st Century Entrepreneurship, Importance of Entrepreneurship in 21 st Century. Start-up Schemes, Start-up India, Stand up India, Pradhan Mantri Kaushal Vikas Yojana, Skill India.	Insurance Agency Agent, Agent's qualification, procedure for becoming an Agent, Methods of Agent's Remuneration, Functions and Responsibilities of Agent, Ethical behaviors of Agent, Renewal and Cancellation of license. Recent Trends in Insurance Sector	Unit IV Advertising media Types of media, Electronic media, press conformance, web advertising, types of online advertising.
March	New Trends in Entrepreneurship: Startup Accelerators, Student Sandbox and Business Labs, Crowd Funding. Venture Capital, Co-Working Spaces, Boot Camps, Entrepreneurship Development Program, Online Entrepreneurship Degree. Project Management: Meaning, Definition, Classification, Project Life Cycle, Project Formulation & Feasibility, Project Finance, Project Report and Presentation, Information Centers in India.	Functional areas of IT in insurance sector (Marketing, Consumer Awareness, Customer Service, Finance, HRM, R&D, MIS Regulatory Control), Benefits and Factors affecting of e-insurance, IT and life Insurance Corporation of India: Online Insurance, Channels of online Insurance Premium Payments, Benefits of online insurance purchase, Procedure of purchase Online Insurance Policy, Unit linked Insurance Plan (ULIP)	Unit V Advertising Agencies The role of importance of advertising, organization patterns, selection of advertising, agency commission and fee, Advertising types of online and organization

Dr. S.L. Padgalwar
Dr. S.L. Padgalwar

(Signature)
Principal



Matsyodari Shikshan Sanstha's Arts Commerce and Science College, Ambad

ANNUAL TEACHING PLAN (M. Com. FY NEP & M.COM SY)

YEAR 2023-24

Name of the Teacher: **DAKHANE KISHOR KANTARAO**



Department of Commerce

Month	Class: M.Com. F. Y [NEP].- Sem. I Paper: MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOUR	Class: M. Com.F.Y. [NEP] Sem. I Paper: Research Methodology	Class:M. Com.F.Y. [NEP] Sem. I Paper: Industrial Economics	Class: M.COM S.Y. SEM III Paper: International Marketing	Class: : B.COM S.Y. SEM III paper: Research Methodology
July	Admission process	Admission process	Admission process	Admission process	Admission process
Aug	UNIT I: Evolution of Management Thought, Schools of Management Thought, Role of management in globalized world and its growing significance.	UNIT I Introduction: Definition- Meaning and nature-scope-objectives of Research Merits and demerits. UNIT II: Planning Research Project: Identification, selection and formulation of problem Research design-types of research.	Industrial Organization: Structure-Concept-performance paradigm Monopoly and concentration concept, reason and concern contestable market - fixed cost, sunk cost and contestability measures of concentration-concentration ratio Hirschman - Herfindahl Index	Unit I: Introduction to International Marketing: Nature and Significance, complexities in International Marketing transaction from domestic to International Marketing; international Market orientation EPRG Framework, International Market entry strategies.	UNIT I Introduction: Definition- Meaning and nature-scope-objectives of Research Merits and demerits. UNIT II: Planning Research Project: Identification, selection and formulation of a problem Research design-types of research.
sep	UNIT II: Functions of Management Planning, Organizing, Centralization & Decentralization, Controlling and Co-ordination and Staffing. Organizational Behavior Concept, Relationship between Management and Organizational Behavior, emergence and ethical - perspective, attitude, perception, learning, personality. UNIT III: Motivation – Concept and	UNIT III: The process of Research: Review of literature, Hypothesis, Objectives, Primary synopsis, Method of investigation, survey method, case study method, experimental method and scientific method UNIT IV: Method of data	Location and Regional Development: Regional growth of industries in India - theories of Industrial Location - Measures for dispersal of Industries - Promotional and Financial support by public sector institutions Determinants of Firm Structure: Mergers - Horizontal and Vertical Conglomerate Integration - Role of FDI in	Unit II: International Marketing environment; Internal environment; External environment geographical. Domestic, economies socio-cultural, political and legal environment, impact of environment on International Marketing decision. Unit III: Foreign Market Selection: Global marketing segmentation: selection of foreign markets, International positioning. Product decision: product planning for global	UNIT III: The process of Research: Review of literature, Hypothesis, Objectives, Primary synopsis, Method of investigation, survey method, case study method, experimental method and scientific method UNIT IV: Method of data

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	theories of motivation	collection:- Primary data, Observation, Interview, Telephonic, and mail survey. Secondary Data: tests, cumulative record cards, schedules, questionnaires and pilot study.	Indian Industry.	markets: Standardization Vs product adaptation; new product development; Management of international brands: packaging and labeling: provision of sales related services.	collection:- Primary data, Observation, Interview, Telephonic, and mail survey. Secondary Data: tests, cumulative record cards, schedules, questionnaires and pilot study.
oct	UNIT IV: Group dynamics and team development – group dynamics, meaning & significance, types of groups, group formation development, group composition.	UNIT V: Sampling: Classification tabulation & scaling of data, Theoretical base of sampling, Probability and Non Probability, sampling types	Industrial Policy: New Industrial Policy (1991) and later developments-Growth and productivity of Indian Industry Industrial Employment and Labor Laws in India Exit Policy India's Competition Policy	Unit IV: Pricing & Promotion Decision: Environmental influences on pricing decisions; international V pricing policies and strategies. Complexities and issues: international advertising, personal selling. Sales promotion and public relation,	UNIT V: Sampling: Classification tabulation & scaling of data, Theoretical base of sampling, Probability and Non Probability, sampling types
Nov	Unit V: Organizational Conflict :Dynamics and management, Sources, Patterns, Levels and Types of Conflict, Traditional and Modern Approaches to conflict, functional and dysfunctional org. conflicts, Conflict Resolution.	UNIT VI: Report Writing: Nature, Types and Contents of Reports- Steps in drafting the reports	The Challenge of WTO: Response of the Indian Industrial Sector to Trade Liberalization- TRIPS-TRIMS-Growth of the Indian Small Scale Industries sector in the QR free regime.	Unit V: Distribution Channel and Logistics: Function and types of Channel. Channel selection decision selection of foreign distributions agents and managing relations with them: International logistics decisions..	UNIT VI: Report Writing: Nature, Types and Contents of Reports- Steps in drafting the reports



Day	Class: M.Com. F. Y.- [NEP] Sem. II Paper: Marketing Management	Class: M.Com. F.Y.[NEP]- Sem. II Paper: Globalization& Public Ad,	Class: M.Com. F. Y.- Sem. IV Paper: Quantitative techniques	Class: M.Com. S. Y.- Sem. IV Paper: International Business
Dec	Unit I: Introduction: Concept, Nature, Scope and importance, Marketing Evolution, Marketing mix, Strategic marketing.	Globalization. Emergence, Meaning, Nature and Characteristics	Unit I: : Operational Research Basics, application in business decision making. linear programming model formulation, solution of LP problem, simplex method.	Unit I: International Business: Nature, Importance & Scope, types of International Business, International Business Approaches. Theory of Competitive Approaches, modern approach to International Business, problem of trade & aid to developing Country.
Jan	Unit II: Market Analysis and Selection: Marketing Environment, Micro and Macro components and impact on marketing decision, Market segmentation and positioning, buyer behaviour, Consumer decision making process.	Globalization and Social, Economic and Political Context of the Country	Unit II: Transportation Problems, Method of solving Transportation Problem, assignment problems, method of solving assignment problems. Unit III: Inventory Management Techniques	Unit II: International Business Decision: Mode of Entry, Marketing Mix, Factors affecting in International Business. The legal, Technological, Political, Sociological environment.
Feb	Unit III: Pricing Decisions: Factors affecting Pricings, Price Determination, Pricing policies, and strategies, Discounts and rebates.	Globalization Indian Perspective	Unit III: Inventory Management Techniques	Unit III: Role of International Institutions. GATT, WTO, ECM, IME, IDRD, IFC, UNCTAD Recent trends in world trade Multinational Corporation.
Mar	Unit IV: Distribution Channels: Function and Types of Distribution Channels, Intermediaries, Channel Management Decision, Retailing and Wholesaling.	Liberalization, Privatization, Globalization (LPG) and Bureaucracy.	UnitIV: Decision Analysis & Decision Tree	Unit IV: International Business promotion in India. EXIM policy, Export promotion board of India. Recent trends in India's Foreign Trade, International Marketing Mix. Logistics-Distribution Channels barriers in Trade Trade & Non-trade Barriers
Apr	Unit V:Promotion Decisions: Communication Process, Promotion mix, Advertising, Personal selling, Sales Promotion, Publicity Relations, Determining Advertisement Budget, Copy Designing and its testing. Media selection, advertising effectiveness, sales promotion tools	Impact of Globalization on Public Administration in India	Unit V: Sequencing/Scheduling Method, PERT/ CPM Techniques Concept, (Notes: Numerical Problems on Simplex Method, Transaction, Assignment, Inventory Management Techniques)	Unit V : Ethics & Social Responsibilities in International Business, Nature of ethics and Social Responsibilities in International Business- Ethics in cross channel and distribution context. Social responsibility in cross cultural and International context. Regulation in International ethics and social responsibility.



Matsyodari Shikshan Sanstha's Arts Commerce and Science College, Ambad
ANNUAL TEACHING PLAN (B. Com.)
YEAR 2023-24



Name of the Teacher: **DAKHANE KISHOR KANTARAO**

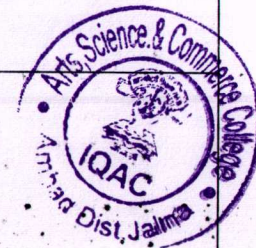
Department of Commerce

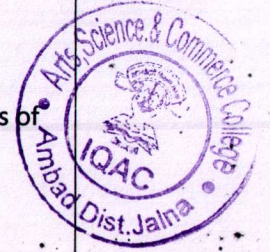
Month	Class: B.Com. F. Y.- Sem. I Paper: Business Mathematics & Statistics -I	Class: B. Com.S.Y. Sem. III Paper: Marketing M.	Class: B.COM T.Y. SEM V Paper: BRF -I	Class: B.COM T.Y. SEM V Paper: Advanced A/C	Class: B.C.A . F. Y.- Sem. I Paper: Business Statistics -I	Class: B.COM T.Y. SEM V Paper: Travel& Tourism
June	Admission process	Admission process	Admission process	Admission process	Admission process	Admission process
July	Unit-I: Introduction of statistics: Meaning definitions, scope and importance of statistics Primary and secondary data, Methods of collecting primary data.	Introduction to Marketing: Definition, Nature, Scope and Importance of Marketing, Traditional and Modern Concept of Marketing, Classification of Markets, Functions of Marketing, Marketing Environment II) Market Segmentation, Targeting and Positioning Meaning, Definition, Need and Benefits of Segmentation, Requisites of Sound Market Segmentation. Segmenting Consumer Market and Business Markets, Target Marketing, Positioning.	I. Indian Contract Act - 1872. 1. Meaning and nature of contract, essentials of valid contract. 2. Meaning and kinds of agreements, Agreements declared void, voidable contracts. 3. Offer and Acceptance of an offer. 4. Capacity of parties to contract. II. Indian Contract Act - 1872.	Unit I- Double entry system: Meaning Features Merits and Demerits , Difference between single entry system and Double entry system, Ascertainment of profit - Net Worth System and Conversion in Double entry system. Unit II- Introduction of banking company. Legal provisions, Non Performing Assets. Reserve fund - Acceptance	Unit-I Introduction, Origin & Growth of Statistics, Definitions, Functions, Scopes and Limitations. Unit II- Organising Statistical Survey, Planning the Survey, Scope of Survey Techniques of data collection. Unit III- Sampling and sample designs. Unit IV- Classification and Tabulation of Data.	Unit-I introduction to tourism: definition, nature, importance and types of tourism , characteristics of tourism , domestic and international tourism, origin and growth of tourism, famous travellers, war tourism, development of tourism in india, tourist information offices. Unit -II Transport system development: Surface and water transport, Air transport
August	Unit-II: Measures of central Tendency; Mean	III) Marketing Mix and Channels of Distribution Meaning and Importance of Marketing Mix, Elements of Marketing Mix – Product Mix, Marketing Mix – Product Mix,	Part-II 1. Free consent. 2. Lawful object. 3. Consideration. III. Indian Contract Act-	endorsement and other obligation Bills for collection and provision for bad and dough full debts. Preparation of Final accounts as per Schedule Stated,	Unit V: Measures of Central Value - Mean, Median and Mode	emergence of jet, high speed train, luxury coaches, Car rental , tourism train, Mass tourism.

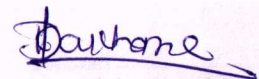
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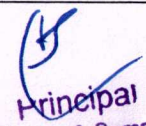
	Median, Quartile and Mode. (I.C.T. Use in minimum one lecture)	Price Mix, Place and Promotion Mix.	1872. Part-III 1. Performance of contract. 2. Discharge or Termination of contract.3. Breach of contract	Form A and B. Unit II- Introduction, Meaning Types of Insurance company . Revenue accounts, Profits.	(I.C.T. Use in minimum one lecture)	 Unit-III Consumer behaviour:tourism motivation , tourist behaviour, motivating masses to undertake tourism activities,
September	Unit-III: Measures of Dispersion- Mean deviation Standard deviation. Skewness Skewness & co-efficient of Skewness	Study of Channels of Distribution-and various channels of distribution— Factors to be considered in the Selection of channels of Distribution. IV) Marketing Management / Marketing Planning Marketing Planning and Plan, Marketing Planning Process, Role and Significance of Marketing Planning,	IV. Special Contracts. 1. Indemnity and Guarantee contracts. 2. Bailment and Pledge contracts. 3. Agency contracts	Loss A/cs, P and L Appropriation accounts. Claims- Re insurance transactions, premium transaction and legal provisions. Preparation of revenue accounts.P and L account, Pand L Appropriation account and Balancesheet. Unit IV- Introduction Meaning and Definition of Investment ,Types of investment .	Unit VI. Measures of Dispersion - Range, Quartile Deviation, Mean Deviation, Standard Deviation.	Destination exploration, promoting tourism at grass root level at schools, modern tourism and motivation. Unit-IV Role and impact of tourism: tourism in india, Role of tourism in growth and development of indian economy.
October	Unit-IV: Determinants: Different methods of calculating determinants Unit V: Matrices Meaning, definition, types, addition & subtraction.	Essentials of Effective Marketing Planning Process, Problems involved in Marketing Planning, Marketing Communication V) Rural Marketing Importance and Features of Rural Marketing, Rural Share in Marketing, Problems in Rural Marketing, Strategies for Improvement in Rural Marketing	V. Consumer Protection Act (Amended Act of 2002) » 1. Objectives and Important Definitions of Act. 2. Composition and working of Consumer protection councils. 3. Composition and working of Consumer Disputes Redressal Agencies.	Cum interest and cum dividend transaction of purchase and sales. Entries for Interest received, Brokerage, Commission on Purchase and sales . Valuation of closing investment by Fifo method. Unit V- Cloud accounting system Meaning Objectives and Benefits. Forensic accounting , concept deffinition and need. Artificial Intelligence in accounting and auditing.	Unit VII: Correlation Analysis: Introduction: Utility of the study of correlation, Correlation and causation Types of correlation - Positive and Negative Correlation Karl Pearson's Coefficient of Correlation.	current senario, economic impact of tourism, tourism multiplier concept, environmental impact of tourism, environmental impact assessment, Socio-Cultural impact of tourism, need for innovative tourism products in post covid 19 era.

Month	Sem. II Paper: - Business Mathematics & Statistics -II		Paper: B.R.F. -II	Paper: Advanced A/C	Sem. II Paper: - Business Mathematics	
November	Exam Preparation of the Students		Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students	
December	Unit I Correlation Meaning, Karl Pearson's co-efficient of correlation		1. Sales of Goods Act - 1930. — Part-I 1. Meaning and Definition of Sales of goods contract. 2. Subject matter of contract - Goods and Price. 3. Conditions and Warrantees. 4. Transfer of property/ownership.	Unit I- Indian Accounting Standards - Meaning of A/cing Standards, Application of A/cing Standard - AS 14 : A/cing for Amalgamation AS 18 : Related Party Disclosures AS 19 : Leases AS 20 : Earning Per Share AS 26 : Intangible Assets AS 29 : Provisions, Contingent Liabilities and Assets. AS 41 : Agriculture	Unit I Logarithms, Rules for multiplication division and exponentiation	
January	Unit-II: Index Number Laspeyer's method, Paasche's Method and Fisher Idel Index Number Methods (I.C.T. Use in minimum one lecture)		2.Sales of Goods Act--1930. --- Part-II 1. Delivery of goods. 2. Unpaid seller 3. Breach of contract. 4. Sale by Auction and Hire Purchase Agreement.	Unit II- Farm Accounting Books of Accounts to be maintained for farm accounting. Preparation of farm accounting and Balance sheet. Final Accounts of local self govt. Meaning and importance of local self govt. Maintaining books of accounts, Preparation of final accounts.	Unit II- Permutations, Combinations, and Binomial Theorem.ex Number Methods (I.C.T. Use in minimum one lecture)	



February	Unit-III: Regression Analysis Meaning of regression, types of regression, Methods of estimating regression lines.		3.Negotiable Instruments Act - 1881. --- Part-I 1. Meaning, Definition and Characteristics of Negotiable Instruments. 2. Promissory Note, Bill of Exchange and Cheque. 3. Crossing of cheque.	Unit III- Final Accounts of electricity company:- Introduction features of double entry accounting system. Preparation of accounts, revenue, net revenue accounts, receipt and expenditure on capital account, general balance sheet with special effect of adjustment.	Unit-III: Determinate - different methods of calculating determinants..	
March	Unit- V: Probability: (Basis Concepts and Numerical Problems) (I.C.T. Use in minimum one lecture)		4. Parties to negotiable instruments and their liability. 4.Negotiable Instruments Act- 1881. —Part -II 1. Negotiation of negotiable instruments. 2. Presentment of negotiable instruments. 3. Dishonor of negotiable instruments. 4. Discharge of negotiable instruments.	Unit IV International Financial reporting standards, international financial accounting systems accounting values and cultures development and disclosures, global accounting and auditing standards	Unit- V: Matrix - representation - Addition, Subtraction, Multiplication and division. Inverse, Transpose, Adjoint - Cofactor - Singular Arrays - Vectors. (I.C.T. Use in minimum one lecture)	
April	Exam Preparation of the Students	Exam Preparation of the Students	Exam preparation of the students	Exam Preparation of the Students	Exam Preparation of the Students	


Signature of the Teacher
Dalhome K.K.


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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna
Annual Teaching Plan (Year: 2023-24)

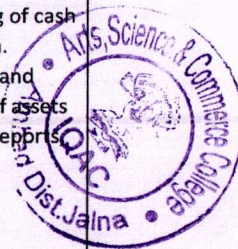
Name of the Teacher: - Mrs. Arati Shrikant Chitral, Department of Commerce



Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY	Class: B.Com. TY
	Paper No: III	Paper No: IV	Paper No: IV	Paper No: III
	Semester: I (Industrial & Busi. Economics)	Semester: III (Cost Accounting I)	Semester: V (Comp. Accounting)	Semester: V (Auditing)
Jul-23	Unit No. 1	Unit I	Unit I	Unit I
	Introduction to Business Economics- Meaning, Definition, Significance and Scope of business economics, Objective of business firm.	Cost Accounting: Meaning. Definition. Limitation, of Financial Accounting. Development of Cost Accounting. Function. Objection. Advantages. Disadvantages and Laminations of Cost Accounting. Difference between Financial and Cost Accounting.	Introduction to Computerized Accounting: Computerized Accounting Need & Significance, Evolution from Manual to Computerized Accounting System, Benefits of Computerized Accounting. (eg. Tally ERP 9). Evolution of Accounting Software, Different Versions of Tally. Silent Features, Technological Advantages of Computerized Accounting.	Introduction, meaning and definition of Auditing. Importance, types and Principals of Auditing. Advantages and Limitations of Auditing .
Aug-23	Unit II	Unit II	Unit- II	Unit II
	Theory of Consumer Behavior: The indifference curve approach: Meaning, definition, assumptions and properties of indifference curve, consumers equilibrium	Elements of Cost: Concept of Cost. Cost Units. Cost Centers. Cost Centers. Cost Objects. Cost Drivers. Types of Cost, Classification of Cost - By Nature or Elements. By Function, By Variability or Behavior, By Control liability. By Normality. By Cost for Managerial Decision Making.	Fundamentals of Computerized Accounting (e.g.Tally ERP9): Start-up & Quit. Screen Components. Setting up a new company. Select Alter & Delete a company. Maintaining Accounting Masters: groups. Leaders. Maintaining Inventory Masters: Stock Group. Stock Item. Units of Measure. Stock Categories, Godown. F11 features, F12 Configurations.	Audit Planning and control Procedure. Audit programme source of obtaining information, Advantages and disadvantages of Audit programme, Audit Note book , Working papers. And Evidences.

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Sep-23	Unit III Elasticity of Demand: Concept, Measurement and determinants of elasticity of demand. Price elasticity, income elasticity and cross elasticity, importance of elasticity of demand, Demand Forecasting Methods.	Unit III Material: Concept, Objectives, Need. Essentials of Material Control, Purchase procedures. Function of purchase. Department classification and coding of material, Fixation of levels of material, Economic order Quantity. Material Handling Costs. Bin Cards. Stores Routines, Issue of Material, Issue Procedures. Method of Pricing. Material Issue FIFO, LIFO. Simple Average, Weighted Average Method.	Unit III Vouchers Accounting Vouchers: Contra, Payment, and Receipt. Journal. Purchase, Sales, Debit Note and credit Note. Inventory Vouchers: Purchase Order. Sales Orders. Receipt Note & Delivery Note. Stock Journals, Rejection In and Rejection out.	Unit III Introduction, Meaning Types of Insurance company . Revenue accounts, Profits and Loss A/cs, P and L Appropriation accounts. Claims- Re Insurance transactions, premium transaction and legal provisions. Preparation of revenue accounts. P and L account, P and L Appropriation account and Balance sheet.	Unit III Vouching and verification. Meaning Need and Importance of Vouching, vouching of cash and credit transaction. Verification of Assets and Liabilities , Valuation of assets and Liabilities. Audit reports types of audit report.
	Unit No. 4 Market Structures and Business decisions, Objectives of a business firm a) Perfect Competition: Meaning, Concept and features b) Monopoly: Meaning, Concept and features.	Unit IV Labour : Meaning, Definition. Recant Trends in Time Booking. Labour Control, Methods of Wage Payment. Time and Piece Rate, Incentives Scheme Taylor's Differential Piece Rate system. Halsey Plan, Rowan Plan (Theory & Numerical)	Unit- IV Reports: Accounting Reports: Trial Balance. Profit & Loss A/c. Balance Sheets, Day Book, Cash/Bank Book. Ledger Report. Group Summery. Voucher Report. Inventory Reports: Stock Summary. Stock Item Summery. Stock Group Summary. Stock Category Report, Godown Reports. Inventory Vouchers Reports. Understanding report - wise F12 configurations.	Unit- IV Introduction Meaning and Definition of Investment ,Types of investment . Cum interest and cum dividend transaction of purchase and sales. Entries for Interest received, Brokerage, Commission on Purchase and sales . Valuation of closing investment by Fifo method.	Unit- IV Company Auditor, Eligibility and appointment of Auditor. Qualification, Disqualification. Removal of Company Auditor, Power and Duties of Company Author, Liabilities and Remuneration of company Auditor.
Oct-23	Unit V Factor Pricing: Marginal Productivity theory and demand for factors; Nature of supply of factor inputs; Determination of wage rates under perfect competition and monopoly; Rent concept; Ricardian and Modern theories of Rent; Quasi rent.	Unit V Overheads: Definition, Direct and Indirect Costs. Important of Overheads. Allocation. Apportionment and Absorption of Overhead. Methods of Distribution. Primary Secondary distribution, repeated method. Machine Hour Rate, Under and Over absorption of overheads.	Unit V GST Functionality: Activating GST in Tally. Setting Up GST: Company level. Ledger Level or Inventory Level. Creating GST Masters: C-GST. 1-GST. 1-GST, Recording GST Transaction: Purchase, Sales, Printing GST Tax Invoice. GST Returns, Payment of GST.	Unit V Cloud accounting system Meaning Objectives and Benefits. Forensic accounting , concept definition and need. Artificial Intelligence in accounting and auditing.	Unit V Nature and Significance of cost Audit, Management audit , Audit and Investigation. Changing role of Auditor in computerized accounting system and Forensic audit, and Conceptual Understanding of Standard Audit.




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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna
Annual Teaching Plan (Year: 2023-24)

Name of the Teacher: - Mrs. Arati Shrikant Chitral, Department of Commerce



Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY	Class: B.Com. TY
	Paper No: V	Paper No: IV	Paper No: IV	Paper No: III
	Semester: II (Business Org. and Mgt.)	Semester: IV Cost Accounting II	Semester: VI (Comp. Accounting)	Semester: VI (Direct Tax)
	Unit No. I	Unit I	Unit I	Unit I
Dec-23	Foundation of Indian Business: Manufacturing and Service Sectors; Small and Medium Enterprises; Problems and Government Policy. India's experience of liberalization and globalization. Technological innovations and skill development. "Make in India" Movement. Social responsibility and ethics Emerging opportunities in business; Franchising, Outsourcing, and E-commerce.	Single or Output Costing: Meaning. Definition, Features, Objectives. Elements of Cost. Distribution of overhead. Preparation of cost sheet. Tender and Quotation.	Advanced Computerized Accounting Features: (e.g. Tally ERP9) Maintaining Bill-wise details: Activating Bill-wise details, Credit period. Maintain Balances bill-by-bill, Outstanding Reports Cost Centers & Cost Categories: Activating Cost Centers. Creating Cost Centers, Cost Center Report Banking: Cheque Book Management. Denomination Details, Bank Reconciliation.	Income Tax Act 1961, Basic concepts and assessing person income classification of income agricultural income casual income previous year assessment year heads of income gross total income total income incomes exempted from income tax deduction at source refund of tax
Jan-24	Unit No. II	Unit No. II	Unit No. II	Unit No. II
	Business Enterprises: Forms of Business Organization: Sole Proprietorship, Joint Hindu Family Firm, Partnership firm, Joint Stock Company, Cooperative society; Limited Liability Partnership: Choice of Form of Organization. Government Business Interface; Rationale and Forms of Public Enterprises. International Business, Multinational Corporations.	Contract Costing: The meaning concept of contract costing, preparation of contract account, complete and incomplete contract, work in progress, and profit on contract.	Advanced Inventory Features in Computerized Accounting: (e.g. Tally.ERP 9) Stock Transfers: Recording Stock Journals. Godown-wise Reports. Bill of Materials: Set up for stock item. Manufacturing Journals. Batch-wise Details: Activating Batch-wise details. Batch-wise Reports.	Income from salary Meaning definition of salary computation of income salary allowances perquisite gross salary deductions form gross salary net salary
	Unit No. III			
	Leadership, Motivation and Control: Leadership: Concept and Styles; Trait and Situational Theory of Leadership. Motivation: Concept and Importance; Maslow Need Hierarchy Theory: Herzberg Two Factors Theory. Control: Concept and Process.			

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Feb-24	Unit No. IV Management and Organization: The Process of Management: Planning: Decision-making, Strategy Formulation. Organizing: Basic Considerations; Departmentation Functional, Project, Matrix and Network; Delegation and Decentralization of Authority: Groups and Teams.	Unit III Operating costing or Service Costing: Meaning of operating costing, types of operating costing. Preparation of electricity and transport and cost sheet.	Unit III Advanced GST Transactions: (e.g. Tally.ERP 9): Recording Purchases: Nil Related, Exempted. Multiple Tax Rates Purchase Returns. Recording Sales: Nil Related, Exempted. Multiple GST rates. Sales Returns. Recording sales of Service. E-way Bill, GST Returns: GSTR1. GSTR2.	Unit No. IV Final Accounts of electricity company:- Introduction features of double entry accounting system. Preparation of accounts, revenue, net revenue accounts, receipt and expenditure on capital account, general balance sheet with special effect of adjustment.	Unit No. III Income from business and profession business profession deemed income from business and profession computation of income from business and profession
		Unit IV Process Costing: Meaning of process costing, concept of process costing, normal and abnormal loss, gain, Equivalent production, preparation of process costing. Joint and by-product.			
Mar-24	Unit No. V Functional Areas of Management: Marketing Management: Marketing Concept; Marketing Mix; Product Life Cycle; Pricing Policies and Practices Financial Management: Concept and Objectives; Sources of Funds - Equity Shares, Debentures, Venture Capital and Lease Finance. Securities Market, Role of SEBI. Human Resource Management: Concept and Functions; Basic Dynamics of Employer Employee Relations.	Unit No. V Reconciliation Meaning, objectives and Advantages of reconciliation, Reconciliation of cost accounting records with financial record. Procedure of reconciliation, method of reconciliation.	Unit No. IV Tax Deducted at Source (TDS): Concept of TDS. Activating TDS. Creating Masters. Recording Transactions. TDS Reports.	Unit No. V International Financial reporting standards, international financial accounting systems accounting values and cultures development and disclosures, global accounting and auditing standards	Unit No. IV Income from house property Basics of charge annual value determination of annual value computation of income from house property deduction under section 24
			Unit No. V Technological Features in Accounting Software: leg. Tally. ERP 9): Backup & Restore, Import & Export Data, Setting Password to Company.		Unit No. V Income from capital gain basics of charge meaning of capital asset types of capital gain short term and long term capital gain cost of inflation index computation of capital gain, exemptions in respect of capital gain. Income from other sources income taxable under the head income from other sources under section 56 deduction from income from other sources under section 57


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Matsyodari Shikshan Sanstha's
Arts Science and Commerce College, Ambad
 ANNUAL TEACHING PLAN
 YEAR 2023-24



Name of the Teacher: **DAKHANE KISHOR KANTARAO**

Department of Commerce

Month	Class: B.Com. F. Y.- Sem. I Paper: Business Mathematics & Statistics -I	Class: B. Com.S.Y. Sem. III Paper: Marketing M.	Class: B.COM T.Y. SEM V Paper: BRF -I	Class: B.COM T.Y. SEM V Paper: Advanced A/C	Class: B.C.A . F. Y.- Sem. I Paper: Business Statistics -I	Class: B.COM T.Y. SEM V Paper: Travel& Tourism
June	Admission process	Admission process	Admission process	Admission process	Admission process	Admission process
July	Unit-I: Introduction of statistics: Meaning definitions, scope and importance of statistics Primary and secondary data, Methods of collecting primary data.	Introduction to Marketing: Definition, Nature, Scope and Importance of Marketing, Traditional and Modern Concept of Marketing, Classification of Markets, Functions of Marketing, Marketing Environment II) Market Segmentation, Targeting and Positioning Meaning, Definition, Need and Benefits of Segmentation, Requisites of Sound Market Segmentation. Segmenting Consumer Market and Business Markets, Target Marketing, Positioning.	I. Indian Contract Act - 1872. 1. Meaning and nature of contract, essentials of valid contract. 2. Meaning and kinds of agreements, Agreements declared void, voidable contracts. 3. Offer and Acceptance of an offer. 4. Capacity of parties to contract. II. Indian Contract Act - 1872.	Unit I- Double entry system: Meaning Features Merits and Demerits , Difference between single entry system and Double entry system, Ascertainment of profit - Net Worth System and Conversion in Double entry system. Unit II- Introduction of banking company. Legal provisions, Non Performing Assets. Reserve fund - Acceptance	Unit-I Introduction, Origin & Growth of Statistics, Definitions, Functions, Scopes and Limitations. Unit II- Organising Statistical Survey, Planning the Survey, Scope of Survey Techniques of data collection. Unit III- Sampling and sample designs. Unit IV- Classification and Tabulation of Data.	Unit-I introduction to tourism: definition, nature, importance and types of tourism , characteristics of tourism , domestic and international tourism, origin and growth of tourism, famous travellers, war tourism, development of tourism in india, tourist information offices. Unit -II Transport system development: Surface and water transport, Air transport
August	Unit-II: Measures of central Tendency; Mean	III) Marketing Mix and Channels of Distribution Meaning and Importance of Marketing Mix, Elements of Marketing Mix – Product Mix, Price Mix, Place and Promotion	Part-II 1. Free consent. 2. Lawful object. 3. Consideration. III. Indian Contract Act- 1872. Part-III	endorsement and other obligation Bills for collection and provision for bad and doubtful debts. Preparation of Final accounts as per Schedule Stated, Form A and B.	Unit V: Measures of Central Value - Mean, Median and Mode	emergence of jet, high speed train, luxury coaches, Car rental , tourism train, Mass tourism. Unit -III Consumer

	Median, Quartile and Mode. (I.C.T. Use in minimum one lecture)	Mix.	1. Performance of contract. 2. Discharge or Termination of contract. 3. Breach of contract	Unit II- Introduction , Meaning Types of Insurance company . Revenue accounts, Profits.	(I.C.T. Use in minimum one lecture)	behaviour:tourism motivation ,tourist behaviour, motivating masses to undertake tourism activities
September	Unit-III: Measures of Dispersion- Mean deviation Standard deviation. Skewness Skewness & co-efficient of Skewness	Study of Channels of Distribution-and various channels of distribution— Factors to be considered in the Selection of channels of Distribution. IV) Marketing Management / Marketing Planning Marketing Planning and Plan, Marketing Planning Process, Role and Significance of Marketing Planning,	IV. Special Contracts. 1. Indemnity and Guarantee contracts. 2. Bailment and Pledge contracts. 3. Agency contracts	Loss A/cs, P and L Appropriation accounts. Claims- Re insurance transactions, premium transaction and legal provisions. Preparation of revenue accounts.P and L account, Pand L Appropriation account and Blancesheet. Unit IV- Introduction Meaning and Deffinition of Investment ,Types of investment .	Unit VI. Measures of Dispersion - Range, Quartile Deviation, Mean Deviation, Standard Deviation.	destination exploration, promoting tourism at grass root level at schools, modern tourism and motivation. Unit-IV Role and impact of tourism: tourism in india, Role of tourism in growth and development of indian economy,
October	Unit-IV: Determinants: Different methods of calculating determinants Unit V: Matrices Meaning, definition, types, addition & subtraction.	Essentials of Effective Marketing Planning Process, Problems involved in Marketing Planning, Marketing Communication V) Rural Marketing Importance and Features of Rural Marketing, Rural Share in Marketing, Problems in Rural Marketing, Strategies for Improvement in Rural Marketing	V. Consumer Protection Act (Amended Act of 2002) » 1. Objectives and Important Definitions of Act. 2. Composition and working of Consumer protection councils. 3. Composition and working of Consumer Disputes Redressal Agencies.	Cum intrest and cum dividend tranction of purchase and sales. Entries for Intrest received, Brokerage, Commission on Purchase and sales . Valuation of closing investment by Fifo method. Unit V- Cloud accounting system Meaning Objectives and Benefits. Forensic accounting , concept deffinition and need. Artificial Intelligence in accountng and auditing.	Unit VII: Correlation Analysis: Introductio n: Utility of the study of correlation, Correlation and causation Types of correlation - Positive and Negative Correlation Karl Pearson's Coefficient of Correlation.	current senario, economic impact of tourism, tourism multiplier concept, environmental impact of tourism, environmental impact assessment, Socio-Cultural impact of tourism, need for innovative tourism products in post covid 19 era.

Month	Sem. II Paper: - Business Mathematics & Statistics -II	III Paper: Marketing	Sem.VI Paper:B.R.F. -II	Paper: Advanced A/C	Sem. II Paper: - Business Mathematics	Sem. VI Paper: advertising & Salesmanship
November	Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students
December	Unit I Correlation Meaning, Karl Pearson's co-efficient of correlation	I) Marketing Communication Introduction to Marketing Communication, Integrated Marketing Communication (IMC), Promotion Mix Strategies, Factors Determining Promotion Mix, Developing Effective Advertising Programme, Sales Promotion, Public Relation and Personal Selling	1. Sales of Goods Act - 1930. — Part-I 1. Meaning and Definition of Sales of goods contract. 2. Subject matter of contract - Goods and Price. 3. Conditions and Warrantees. 4. Transfer of property/ownership.	Unit I- Indian Accounting Standards - Meaning of A/cing Standards, Application of A/cing Standard - AS 14 : A/cing for Amalgamation AS 18 : Related Party Disclosures AS 19 : Leases AS 20 : Earning Per Share AS 26 : Intangible Assets AS 29 : Provisions, Contingent Liabilities and Assets. AS 41 : Agriculture	Unit I Logarithms , Rules for multiplication division and exponentiation	Unit I Concept of salesmanship Essential skill and types salesmanship Advertising publicity, Attitude and value
January	Unit-II: Index Number Laspeyres's method, Paasche's Method and Fisher Idel Index Number Methods (I.C.T. Use in minimum one lecture)	II) Consumer Behaviour Definition, Meaning and Importance, Steps in Buying Process, Buyers Behaviour Models, Buying Motives. Factors Influencing Buyers Behaviour, Types of Buyers Behaviour, Business (Organizational) Markets and Buying Behaviour, Characteristics of Organizational Buying Behaviour and Buying Process	2.Sales of Goods Act-- 1930. --- Part-II 1. Delivery of goods. 2. Unpaid seller 3. Breach of contract. 4. Sale by Auction and Hire Purchase Agreement.	Unit II- Farm Accounting Books of Accounts to be maintained for farm accounting. Preparation of farm accounting and Balancesheet. Final Accounts of local self govt. Meaning and importance of local self govt. Maintaining books of accounts, Preparation of final accounts.	Unit II- Permutations, Combinations, and Binomial Theorem.ex Number Methods (I.C.T. Use in minimum one lecture)	Unit III Advertising and Media Concept, Meaning, needs, objective, merits and demerits of advertising, Electronic media, social media. Unit II Process of Selling and sales promotion Steps in Process of selling, AIDA concept, Model of selling Concept of selling Emerging techniques,
February	Unit-III: Regression Analysis Meaning of regression, types of regression, Methods of estimating regression lines.	III) Customers Relationship Management Introduction, Meaning and Definition of CRM, Customer Retention, Strategies for Building Relationship, CRM Process, Negotiating with Key Customers – Call Centres,	3.Negotiable Instruments Act - 1881. --- Part-I 1. Meaning, Definition and Characteristics of Negotiable Instruments. 2. Promissory Note, Bill of Exchange and Cheque. 3. Crossing of cheque.	Unit III- Final Accounts of electricity company:- Introduction features of double entry accounting system. Preparation of accounts, revenue, net revenue accounts, receipt and expenditure on capital account, general balance sheet with	Unit-III: Determinate - different methods of calculating determinants..	Unit IV Advertising media Types of media, Electronic media, press conformance, web advertising, types of online advertising.



		Customer Interaction, Tools of Negotiation.		special effect of adjustment.		
March	Unit- V: Probability: (Basis Concepts and Numerical Problems) (I.C.T. Use in minimum one lecture)	New Issues and Development in Marketing Marketing Information System, New Channels of Distribution – e Marketing (B2B, B2C, -- etc), e Advertising, Green Marketing, Event Marketing, Cyber Marketing and other developments in Marketing IV) Ethics in Marketing Social, Ethical and Legal Aspects of Marketing.	4. Parties to negotiable instruments and their liability. 4.Negotiable Instruments Act- 1881. —Part -II 1. Negotiation of negotiable instruments. 2. Presentment of negotiable instruments. 3. Dishonor of negotiable instruments. 4. Discharge of negotiable instruments.	Unit IV International Financial reporting standers, international financial accounting systems accounting values and cultures developmement and disclosures, global accounting and auditing standers	Unit- V: Matrix - representation - Addition, Subtraction, Multiplication and division. Inverse, Transpose, Adjoint - Cofactor - Singular Arrays - Vectors. (I.C.T. Use in minimum one lecture)	Unit V Advertising Agencies The role of importance of advertising, organization patterns, selection of adverteng, agency comission and fee, Advertising types of online and organization
April	Exam Preparation of the Students	Exam Preparation of the Students	Exam preparation of the students	Exam Preparation of the Students	Exam Preparation of the Students	Exam Preparation of the Students

Dalchane
 Mr Dalchane K.K.
 Signature of the Teacher


 कला, विज्ञान व वाणिज्य महाविद्यालय
 अंबड, जि. जालना ४३१२०४

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna
Annual Teaching Plan (Year: 2023-24)

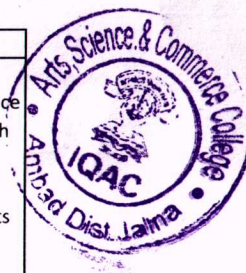
Name of the Teacher: - Mrs. Arati Shrikant Chitral, Department of Commerce



Month	Class: B.Com. FY Paper No: III	Class: B.Com. SY Paper No: IV	Class: B.Com. TY Paper No: IV	Class: B.Com. TY Paper No: I	Class: B.Com. TY Paper No: III
	Semester: I (Industrial & Busi. Economics)	Semester: III (Cost Accounting I)	Semester: V (Comp. Accounting)	Semester: V (Advance Financial Accounting)	Semester: V (Auditing)
Jul-23	Unit No. 1 Introduction to Business Economics- Meaning, Definition, Significance and Scope of business economics, Objective of business firm.	Unit I Cost Accounting: Meaning. Definition. Limitation, of Financial Accounting. Development of Cost Accounting. Function. Objection. Advantages. Disadvantages and Laminations of Cost Accounting. Difference between Financial and Cost Accounting.	Unit I Introduction to Computerized Accounting: Computerized Accounting Need & Significance, Evolution from Manual to Computerized Accounting System, Benefits of Computerized Accounting. (eg. Tally ERP 9). Evolution of Accounting Software, Different Versions of Tally. Silent Features, Technological Advantages of Computerized Accounting.	Unit I Meaning Features Merits and Demerits , Difference between single entry system and Double entry system ,Ascertainment of profit - Net Worth System and Conversion in Double entry system.	Unit I Introduction, meaning and deffinition of Auditing. Importance, types and Principals of Auditing. Advantages and Limitations of Auditing .
	Unit II Theory of Consumer Behavior: The indifference curve approach: Meaning, definition, assumptions and properties of indifference curve, consumers equilibrium	Unit II Elements of Cost: Concept of Cost. Cost Units. Cost Centers. Cost Centers. Cost Objects. Cost Drivers. Types of Cost, Classification of Cost - By Nature or Elements. By Function, By Variability or Behavior, By Control liability. By Normality. By Cost for Managerial Decision Making.	Unit- II Fundamentals of Computerized Accounting (e.g.Tally ERP9): Start-up & Quit. Screen Components. Setting up a new company. Select Alter & Delete a company. Maintaining Accounting Masters: groups. Leaders. Maintaining Inventory Masters: Stock Group. Stock Item. Units of Measure. Stock Categories, Godown. F11 features, F12 Configurations.	Unit II Introduction of banking company. Legal provisions, Non Performing Assets. Reserve fund - Acceptance endorsement and other obligation Bills for collection and provision for bad and doughthfull debts. Preparation of Final accounts as per Schedule Stated, Form A and B.	Unit II Audit Planning and control Procedure. Audit programme source of obtaining information, Advantages and disadvantages of Audit programme, Audit Note book , Working papers. And Evidences.
Aug-23					

प्रमुख
 कला, विज्ञान व वाणिज्य महाविद्यालय
 अंबड, जि. जालना ४३१२०४

Sep-23	Unit III Elasticity of Demand: Concept, Measurement and determinants of elasticity of demand. Price elasticity, income elasticity and cross elasticity, importance of elasticity of demand, Demand Forecasting Methods.	Unit III Material: Concept, Objectives, Need. Essentials of Material Control, Purchase procedures. Function of purchase. Department classification and coding of material, Fixation of levels of material, Economic order Quantity. Material Handling Costs. Bin Cards. Stores Routines, Issue of Material, Issue Procedures. Method of Pricing. Material Issue FIFO, LIFO. Simple Average, Weighted Average Method.	Unit III Vouchers Accounting Vouchers: Contra, Payment, and Receipt. Journal. Purchase, Sales, Debit Note and credit Note. Inventory Vouchers: Purchase Order. Sales Orders. Receipt Note & Delivery Note. Stock Journals, Rejection In and Rejection out.	Unit III Introduction , Meaning Types of Insurance company . Revenue accounts, Profits and Loss A/cs, P and L Appropriation accounts. Claims- Re insurance transactions, premium transaction and legal provisions. Preparation of revenue accounts.P and L account, Pand L Appropriation account and Blancesheet.	Unit III Vouching and verification. Meaning Need and Importance of Vouching, vouching of cash and cerdit transaction. Verification of Assets and Liabilities , Valuation of assets and Liabilities.Audit reports, types of audit report.
	Unit No. 4 Market Structures and Business decisions, Objectives of a business firma) Perfect Competition: Meaning, Concept and features b) Monopoly: Meaning, Concept and features.	Unit IV Labour : Meaning, Definition.Recant Trends in Time Booking. Labour Control, Methods of Wage Payment. Time and Piece Rate, Incentives Scheme Taylor's Differential Piece Rate system. Halsey Plan, Rowan Plan (Theory & Numerical)	Unit- IV Reports: Accounting Reports: Trial Balance. Profit & Loss A/c. Balance Sheets, Day Book, Cash/Bank Book. Ledger Report. Group Summery. Voucher Report. Inventory Reports: Stock Summary. Stock Item Summery. Stock Group Summery. Stock Category Report, Godown Reports. Inventory Vouchers Reports. Understanding report - wise F12 configurations.	Unit- IV Introduction Meaning and Deffinition of Investment ,Types of investment . Cum intrest and cum dividend tranction of purchase and sales. Entries for Intrest received, Brokerage, Commission on Purchase and sales . Valuation of closing investment by Fifo method.	Unit- IV Company Auditor, Eligibility and appointment of Auditor. Qualification,Disqualification. Removal of Company Auditor, Power and Duties of Company Autior, Liabilities and Remuneration of company Auditor.
Oct-23	Unit V Factor Pricing: Marginal Productivity theory and demand for factors; Nature of supply of factor inputs; Determination of wage rates under perfect competition and monopoly; Rent concept; Ricardian and Modern theories of Rent; Quasi rent.	Unit V Overheads: Definition, Direct and Indirect Costs. Important of Overheads. Allocation. Apportionment and Absorption of Overhead. Methods of Distribution. Primary Secondary distribution, repeated method. Machine Hour Rate, Under and Over absorption of overheads.	Unit V GST Functionality: Activating GST in Tally. Setting Up GST: Company level. Ledger Level or Inventory Level. Creating GST Masters: C-GST. 1-GST. 1-GST, Recording GST Transaction: Purchase, Sales, Printing GST Tax Invoice. GST Returns, Payment of GST.	Unit V Cloud accounting system Meaning Objectives and Benefits. Forensic accounting , concept deffinition and need. Artificial Intelligence in accounting and auditing.	Unit V Nature and Significance of cost Audit, Management audit , Audit and Investigation. Changing role of Auditor in computerised accountin system and Forensic audit, and Conceptual Understanding of Standard Audit.




 प्रिन्सिपल
 कला, विज्ञान व वाणिज्य महाविद्यालय
 अम्बड, जि. जालना ४३१२०४