

**Shri.Vijaysinha Yadav College,
Peth Vadgaon**

Syllabus Ethics

2023-24

Shri. Vijaysinha Yadav College, Peth Vadgaon

Department of English

Syllabus covering following values:

- 1] Professional Ethics
- 2] Gender Equality
- 3] Human Values
- 4] Environment and Sustainability

B. A. Part II

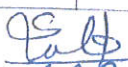
Ability Enhancement Compulsory Course (AECC)(CBCS)

English For Communication

(Compulsory English)

(June 2019 Onwards)

Syllabus	Ethics
Semester III Module I A) Oral Skills B) A Real Good Smile – Bill Naughton C) Mending Wall – Robert Frost	Professional Ethics Human Values Human Values
Module II A) Conversation Skills B) The Highway – Ray Bradbury	Professional Ethics Human Values
Module III A) Developing Writing Skills B) Whitewashing the Fence – Mark Twain	Professional Ethics Human Values
Module IV A) Father Returning Home – Dilip Chitre B) There is a Garden in Her Face – Thomas Campion	Human Values Environment and Sustainability
Module V A) E-Communication B) Preparation for England – M.K. Gandhi	Professional Ethics Human Values


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Module VI A) Information Transfer and Interpretation of Data B) The Selfish Giant – Oscar Wilde C) Auto Wreck – Karl Shapiro	Professional Ethics Human Values Human Values
Module VII A) English for Banking and Industries B) The Journey – Mary Oliver	Professional Ethics Human Values
Module VIII A) An Old Man's Wisdom – Sudha Murty B) My Soul has a Hat – Mário de Andrade	Human Values Human Values

B. A. Part II

(Discipline Specific Core) (DSC-C5)

English (Paper III) (Semester III)

LITERATURE AND CINEMA (CBCS)

June 2019 Onwards

Syllabus	Ethics
Module I Theories of Adaptation	Professional Ethics
Module II Adaptation as Interpretation	Professional Ethics
Module III William Shakespeare's Comedy of Errors and its Adaptation Angoor (dir. Gulzar, 1982)	Human Values
Module IV William Shakespeare's Comedy of Errors and its Adaptation Angoor (dir. Gulzar, 1982)	Human Values

B. A. Part II
(Discipline Specific Core) (DSC-C29)
English (Paper V) (Semester IV)
LITERATURE AND CINEMA
(CBCS)

June 2019 Onwards

Syllabus	Ethics
Module I Transformation and Transposition	Professional Ethics
Module II Hollywood and 'Bollywood'	
Module III Chetan Bhagat's Five Point Someone and its Adaptation 3 Idiots (dir. Rajkumar Hirani, 2009)	Human Values
Module IV Chetan Bhagat's Five Point Someone and its Adaptation 3 Idiots (dir. Rajkumar Hirani, 2009)	Human Values

B. A. Part II
(Discipline Specific Core) (DSC-C6)
English (Paper IV) (Semester III)
PARTITION LITERATURE (CBCS)

June 2019 Onwards

Syllabus	Ethics
Module I Partition: Causes and Effects	Human Values
Module II Communal conflicts and Violence	Human Values
Module III Khushwant Singh's A Train to Pakistan	Human Values
Module IV Khushwant Singh's A Train to Pakistan	

B. A. Part II
(Discipline Specific Core) (DSC-C30)
English (Paper VI) (Semester IV)
PARTITION LITERATURE (CBCS)

Detailed Syllabi
June 2019 Onwards

Syllabus	Ethics
Module I Impact of Partition on Women	Gender Equality
Module II Home and Exile	Gender Equality
Module III Short Stories: Toba Tek Singh - Saadat Hasan Manto The Final Solution - Manik Bandopadhyay	Human Values Gender Equality
Module IV Short Stories: Defend Yourself Against Me - Bapsi Sidhwa A Leaf in the Storm - Lalithambika Antharjanam	Human Values Human Values Human Values

B. A.III Compulsory English
Ability Enhancement Compulsory Course (CBCS)

ENGLISH FOR COMMUNICATION

From June 2020 Onwards

Syllabus	Ethics
MODULE I	
A. Interview Skills	Professional Ethics
B. The Interview - V.V. John	
MODULE II	
A. Grammar for Competitive Examinations	Professional Ethics
B. The Lottery - Shirley Jackson	Human Values
MODULE III	
A. Writing Skills for Competitive Examinations	Professional Ethics
B. After Twenty Years - O' Henry	Human Values
MODULE IV	
C. A. I Shall Return To This Bengal - Jibananda Das	Human Values
D. B.(i) Song of Youth - A. P. J. Abdul Kalam	Human Values
E. (ii) The Orphan Girl - Henry Derezio	Gender Equality
MODULE V	
A. Group Discussion	Professional Ethics
B. The Lighthouse Keeper of Aspinwall - Henry Sienkiewicz	Human Values
MODULE VI	
A. Note Making and Note Taking	Professional Ethics
B. Three Questions - Leo Tolstoy	Human Values
MODULE VII	
A. Media Writing	Professional Ethics
B. Eight Rupees - Murli Das Melwani	Human Values
MODULE VII	
A. The Mystic Drum - Gabriel Okara	Human Values
B. (i) Two Dead Soldiers- Jean Arasanayagam	Human Values
(ii) Bora Ring - Judith Wright	Human Values

B. A.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

(From June 2020 Onwards)

Syllabus	Ethics
I. Topics For Background Readings: 1. Elizabethan Poetry 2. Metaphysical Poetry 3. Romantic Poetry	Human Values
II. Selections from Elizabethan Poetry: 1. Sweet Warrior (Sonnet 57) Edmund Spenser 2. Sonnet To The Moon Sir Philip Sydney 3. Full Many A Glorious Morning... (Sonnet 33) William Shakespeare	Environment and Sustainability Environment and Sustainability
III. Selections from Metaphysical Poetry: 1. The Sun Rising John Donne 2. The Retreat Henry Vaughan 3. The Collar George Herbert	Environment and Sustainability
IV. Selections from Romantic Poetry: 1. My Heart Leaps Up William Wordsworth 2. The Rime of the Ancient Mariner S. T. Coleridge 3. Ozymandias P. B. Shelley	Human Values Human Values Human Values Human Values Human Values
4. When We Two Parted Lord Byron V. Topics For Background Readings: 1. Victorian Poetry 2. Modern English Poetry 3. Modern Indian English Poetry	Human Values
VI. Selections from Victorian Poetry: 1. The Lady Of Shallot Alfred Lord Tennyson 2. My Last Duchess Robert Browning 3. Love Came Down At Christmas Christiana Rossetti	Gender Equality Human Values
VII. Selections from Modern English Poetry: 1. No Second Troy W. B. Yeats	Human Values

2. The Hollow Men T. S. Eliot 3. Tonight, I Can Write Pablo Neruda VIII. Selections from Modern Indian English Poetry: 1. The Professor Nissim Ezekiel 2. A Hot Noon in Malabar Kamala Das 3. A River A. K. Ramanujan 4. A Kind of Happiness Jayanta Mahapatra	Human Values Human Values Environment and Sustainability Human Values
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B. A. Part III

Special English

ENGLISH DRAMA (CBCS)

Discipline Specific Elective

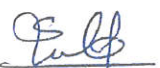
Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)

From June 2020 onwards

Syllabus	Ethics
MODULE I Definition and Elements of Drama	Human Values
MODULE II Tragedy as a Form	
MODULE III The Importance of Being Earnest - Oscar Wilde	Human Values
MODULE IV Hamlet – William Shakespeare	Human Values
MODULE V Types of Drama	
MODULE VI Comedy as a Form	
MODULE VII Nagamandala – Girish Karnad	Gender Equality
MODULE VIII Harvest – Manjula Padmanabhan	Gender Equality

B. A. Part III
Special English
ENGLISH NOVEL (CBCS)
Discipline Specific Elective
Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)
From June 2020 onwards

Syllabus	Ethics
MODULE I Rise and Development of the Novel	Human Values Environment and Sustainability
MODULE II Aspects of the Novel	
MODULE III The Old Man and the Sea – Ernest Hemingway	
MODULE IV The Power and the Glory – Graham Greene	
MODULE V Historical and Psychological Novel	Human Values
MODULE VI Satirical Novel and Epistolary novel	
MODULE VII Animal Farm: A Fairy Tale - George Orwell	
MODULE VIII The Guide - R. K. Narayan	


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Department of English

Academic Year (2023-24)

Annual Programmes on Ethics

S.N.	Program/Activity	Covered Ethics
1.	Inaugural of Certificate Course in Spoken English (Date: 05/10/2023)	Professional Ethics
2.	Celebration of R. K. Narayan Birth Anniversary by inaugural of wallpaper and students' speeches. (10/10/2023)	Professional Ethics and Human Values
3.	Study/Pleasure Tour at Shivaji University, Kolhapur. (14/10/2023)	Professional Ethics and Human Values
4.	Guest Lecture of Dr. D.K. Kamble, Associate Professor. T.K. Kolekar Arts and Commerce College, Nesari on "Significance of Communication in English" (24/02/2024).	Professional Ethics
5.	Department Visit at Oxygen Park, Peth Vadgaon for watering plants and trees	Environment and Sustainability


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Department of Hindi

New Syllabus Introduced from June 2018

Class: B.A.I

Semester No: I & II

Title of the Paper: हिंदी कविता और हिन्हीडी गद्य साहित्य (Paper No: I & II)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	भिक्षुक, तेरी खोपड़ी के अंदर	Sustainability Ethics Human Values
2.	बालिका का परिचय, बेजागह, स्त्री मुक्ती की माशाल् हो, बाजार	Gender Equality
3.	बसंत आ गया	Environment Ethics
4.	नया बँक, सत्ता, एकलव्य	Professional Ethics
5.	जीवन और शिक्षण, भागत की गत, अकेली	Sustainability Ethics Human Values
6.	रजिया, चीफ कि दावात, अकेली	Gender Equality
7.	विज्ञापण युग, संस्कार और भावना	Professional Ethics & Sustainability Ethics
8.	किसान के घर से, पंचलाईट	Environment Ethics

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Department of Hindi

New Syllabus Introduced from June 2019

Class: B.A.II Semester No: II & III

Title of the Paper: आधुनिक गद्य साहित्य (Paper No: III & V)

Sr. No.	Topic in the Syllabus	Covered Ethics
1.	एक टोकरी भर मिटी, जाचं अभी जारी है, दास्ताने कबुतर	Human Values
2.	जाचं अभी जारी है	Gender Equality,
3.	बाहानेबाजी, बाजार दर्शन	Professional Ethics
4.	दास्ताने कबुतर	Environment Ethics
5.	लडाई (नाटक)	Professional Ethics
6.	लडाई (नाटक)	Human Values
7.	अब गरिबी हटाव (नाटक)	Human Values
8.	अब गरिबी हटाव (नाटक)	Professional Ethics

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New Syllabus Introduced from June 2023

Class: B.A.II Semester No: II & III

Title of the Paper: मध्यकालीन एवं आधुनिक काव्य (Paper No: IV & VI)

Sr. No.	Topic in the Syllabus	Covered Ethics
1.	नामदेव के पद, कबीर के दोहे, , मीरा के पद	Sustainability Ethics. Human Values
2.	बिहार के दोहे, रहीम के दोहे, भूषण के पद	Human Values,Sustainability Ethics
3.	द्रुत झरो, तीनों बंदर बापू के, औरत	Sustainability Ethics, Human Values
4.	वह अनजान आदमी, सूरज पाना है, उताणी दूर मत ब्याहाना बाबा	Sustainability Ethics, Human Values. Environment Ethics
5.	संशय की एक रात (खंडकाव्य)	Sustainability Ethics, Human Values. Environment Ethics
6.	संशय की एक रात (खंडकाव्य)	Sustainability Ethics, Human Values. Environment Ethics
7.	संशय की एक रात (खंडकाव्य)	Sustainability Ethics, Human Values. Environment Ethics
8.	संशय की एक रात (खंडकाव्य)	Sustainability Ethics, Human Values. Environment Ethics

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New Syllabus Introduced from June 2020

Class: B.A.III Semester No: V & VI

Title of the Paper: विधा विशेष का अध्ययन (VII&XII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	है दिल्ली उंचा सुनती (नाटक)	Sustainability Ethics, Human Values. Environment Ethics
2.	है दिल्ली उंचा सुनती (नाटक)	Sustainability Ethics, Human Values. Environment Ethics
3.	है दिल्ली उंचा सुनती (नाटक)	Sustainability Ethics, Human Values. Environment Ethics
4.	है दिल्ली उंचा सुनती (नाटक)	Sustainability Ethics, Human Values. Environment Ethics
4.	अंतिम साक्ष (उपन्यास)	Sustainability Ethics, Human Values. Environment Ethics
5.	अंतिम साक्ष (उपन्यास)	Sustainability Ethics, Human Values. Environment Ethics
6.	अंतिम साक्ष (उपन्यास)	Sustainability Ethics, Human Values. Environment Ethics
7.	अंतिम साक्ष (उपन्यास)	Sustainability Ethics, Human Values. Environment Ethics

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Department of Hindi

Class: B.A.III Semester No: V & VI

Title of the Paper: साहित्यशास्त्र (VIII& XIII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	काव्य \साहित्य स्वरूप तत्व प्रयोजन	Sustainability, Human Values
2.	काव्य के प्रकार, गुण, दोष	Sustainability
3.	रस- स्वरूप, रस के अंग. रस के भेद	Sustainability, Human Values
4.	अलंकार- शब्दालंकार, अनुप्रास, वक्रोक्ती, यमक, वीप्सा, अर्थालंकार	Human Values,Sustainability
5.	महाकाव्य, प्रगीत, गजल	Sustainability Ethics,Human Values. Environment Ethics
6.	एकांकी, कहानी, उपन्यास	Sustainability Ethics,Human Values. Environment Ethics
7.	रेखाचित्र, आत्मकथा यात्राव्रत	Sustainability Ethics,Human Values. Environment Ethics
8.	आलोचना- स्वरूप, गुण, प्रकार	Sustainability Ethics,Human Values. Environment Ethics

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New Syllabus Introduced from June 2020

Class: B.A.III Semester No: V & VI

Title of the Paper: हिंदी साहित्य का इतिहास (IX & XIV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	आदिकाल- नामकरण, परिस्थितियां, प्रथ्वीराज रासो, बीसलदेव रासो	Sustainability Ethics, Human Values. Environment Ethics
2.	भक्तिकाल- , परिस्थितियां, नामदेव, रविदास, मीराबाई, नानक सामान्य परिचय	Sustainability Ethics, Human Values. Environment Ethics
3.	निर्गुण भक्ति धारा- कबीर, जायसी- जीवन परिचय	Sustainability Ethics, Human Values. Environment Ethics
4.	सगुण भक्ति धारा- तुलसीदास, सूरदास- जीवन परिचय	Sustainability Ethics, Human Values. Environment Ethics
5.	रीतिकाल- परिस्थितियां, केशवदास, बिहारी, भूषण, घानानंद सामान्य परिचय	Sustainability Ethics, Human Values. Environment Ethics
6.	आधुनिक काल- परिस्थितियां, भारतेन्दू हरिचंद्र , जयशंकर प्रसाद, मोहन राकेश सामान्य परिचय	Sustainability Ethics, Human Values. Environment Ethics
7.	हिंदी उपन्यास, नाटक, यात्रा साहित्य उद्भव और विकास	Sustainability Ethics, Human Values. Environment Ethics
8.	छायावाद, प्रगतिवाद, समकालीन कविता विशेषताएं	Sustainability Ethics, Human Values. Environment Ethics

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Class: B.A.III Semester No: V & VI

Title of the Paper: प्रयोजनमूलक हिंदी (X& XV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	पारिभाषिक शब्दावली	Sustainability and Professional Ethics
2.	सरकारी कार्यालयीन पत्राचार - कार्यालय ज्ञापन, परिपत्र. कार्यालय आदेश, सूचना, अनुस्मारक पत्र	Sustainability and Professional Ethics
3.	हिंदी भाषा में रोजगार के अवसर- रेडीओ, विज्ञापन, अनुवाद, पत्रकारिता, फिल्म में रोजगार के अवसर	Sustainability and Professional Ethics
4.	महाविद्यालयीन समारोह, सामाजिक समारोह, प्राकृतिक अपदाओं दुर्घटनाओं का वृत्तांत लेखन	Sustainability and Professional Ethics
5.	पारिभाषिक शब्दावली	Sustainability and Professional Ethics
6.	इंटरनेट, फेसबुक, व्हाटसअप, ट्विटर, ब्लॉग सामान्य परिचय	Sustainability and Professional Ethics
7.	दूरदर्शन, इंटरनेट, डाकुमेटरी, व्हिडिओ कॉन्फरन्स, यु टूब सामान्य परिचय	Sustainability and Professional Ethics
8.	अनुवाद- स्वरूप, महत्व, उपयोगिता, प्रकार और अनुवादक के गुण	Sustainability and Professional Ethics

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Department of Hindi

New Syllabus Introduced from June 2020

Class: B.A.III Semester No: V & VI

Title of the Paper: **भाषा विज्ञान और हिंदी भाषा (XI & XVI)**

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	भाषा की विशेषताएँ , परिभाषा, उत्पत्ति संबंधी विविध वाद	Sustainability, Human Values & Professional Ethics
2.	भाषा परिवर्तनशीलता के कारण भाषा के विविध रूप- बोली और परिनिष्ठीट भाषा	Sustainability, Human Values & Professional Ethics
3.	हिंदी भाषा का उद्भव और विकास – राष्ट्रभाषा, राजभाषा, संपर्क भाषा	Sustainability, Human Values & Professional Ethics
4.	विविध बोलियाँ, अवधी, ब्रज, खड़ीबोली, भोजपुरी	Sustainability, Human Values & Professional Ethics
5.	भाषाविज्ञान की परिभाषा अध्ययन का महत्व वेदज्ञानिकता	Sustainability, Human Values & Professional Ethics
6.	प्रधान अंग पद, शब्द, वाक्य, अर्थ विज्ञान का परिचय	Sustainability, Human Values & Professional Ethics
7.	भाषा विज्ञान का अन्य ज्ञान विज्ञानों से संबंध	Sustainability, Human Values & Professional Ethics
8.	कारक, अर्थ प्रयोग पदकर्म विरामचिन्ह	Sustainability, Human Values & Professional Ethics


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Department of Marathi

New Syllabus Introduced from June 2018

Class: B.A.I Semester No: I & II

Title of the Paper: अक्षरबंध (Paper No: I & II)

(DSC -A1) \$ (DSC -A13) \$

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	विभाग १ कथा-निवडक भास्कर चंदनशिव उमाळं जांभळडव्ह तडा	Sustainability Ethics Human Values
2.	वासना लाल चिखल पाणी	Gender Equality
3.	चित्रपट म्हणजे काय? चित्रपट : एक दृक्श्राव्य माध्यम दिग्दर्शकाचा दृष्टिकोन छायाचित्रण	Environment Ethics
4.	विभाग ४ चित्रपट : कथा छिन्नपटाचे संगीत अभिनय ध्वनी-प्रकाश योजना-वेशभुषा संकलन-संपादन चित्रपटाचा आशावाद	Professional Ethics
5.	विभाग १ बाकी सर्व ठिक आहे १. जीवाचा आटापिटा २. मुख्यप्रवाह	Sustainability Ethics Human Values

	३. एका वृक्षाची गोष्ट ४. राग ५. जीवन सुंदर आहे ६. भविष्य ७. तडजोड पर्सनल मुलाखत	
6.	विभाग २ ९.गौडबंगाल १०.पर्यावरण ११.सोन्याचा दात १२.मांजर १३.स्पर्श १४.युद्ध असे सुरु होते १५.जन्म आईचा १६. शेतमजूर	Gender Equality Human Values
7.	विभाग ३ बातमी अग्रलेख वाचकांचा पत्रव्यवहार नाटक / चित्रपट/ परिक्षण	Professional Ethics & Sustainability Ethics
8.	विभाग ४ उपयोजित मराठी व स्पर्धा परिक्षेसाठी लेखन अ) पत्रलेखन आकलन	Environment Ethics

(Signature)

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New Syllabus Introduced from June 2018


Class: B.A.I Semester No: I & II

Title of the Paper: **शब्दसंहिता** (Paper No: I & II)

(CEG \$ (CEG 2) \$

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	विभाग १ १.निवड-यशवंतराव चव्हाण २.वाटेवरच्या सावल्या - कुसुमाग्रज ३.पन्नास पैकी शून्य मार्क्स शांताबाई शेळके	Sustainability Ethics Human Values
2.	४ शब्दांचे मोल- चंद्रशेखर धर्माधिकारी ५. संगमनेरचे दिवस-दया पवार ६.संकल्प सिद्धीला नेणारा महापुरुष - डॉ.बापूजी साळुंखे	Gender Equality Human Values
3.	विभाग ३ व्यक्तिमत्त्व संकल्पना व्यक्तिमत्त्व विकासासाठी आवश्यक घटक व्यक्तिमत्त्व विकासात भाषेचे महत्त्व	Environment Ethics Professional Ethics
4.	विभाग ४ भाषिक कौशल्ये श्रवण वाचन लेखन भाषण कौशल्ये कार्यक्रमाचे संयोजन स्वागत, प्रास्ताविक परिचय, मनोगत, आभार, सूत्रसंचालन आणि कार्यक्रमाचे	Professional Ethics

	फलकलेखन	
5.	विभाग १ १. संत नामदेव १. पतितपावन २. पंढरीस जावे २ अनंत फंदी १. जमाना आला ऊफराटा २. हे मुर्खा खूण तर्का ३. महात्मा फुले १. मानवांचा धर्म २ धीर ४ बालकवी १. फुलराणी २. अप्सरांचे गाणे	Sustainability Ethics Human Values
6.	विभाग २ विंदा करदीकर १. माझ्या मना बन दगड २. झपताल वाहरू सोनवणे १. गोधड २. चळवळ म्हणजे प्रज्ञा दया पवार १. माणसासारखा माणूस असूनही २. आग आणि फुफाटा एकनाथ पाटील १ शहर एक उदास पोकळी २ शोधयात्रा	Gender Equality Human Values
7.	विभाग ३ निबंधाचे स्वरूप, व्याप्ती निबंधाचे घटक निबंधाचे प्रकार निबंधाची वैशिष्ट्ये	Professional Ethics & Sustainability Ethics
8.	विभाग ४ निबंध लेखन प्रात्यक्षिक सराव	Environment Ethics Professional Ethics


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Class: B.A.II Semester No: III & IV

Title of the Paper: नाटक: देवबाभळी (Paper No: III& V)

Title of the Paper: चांदण्यात भिजायचं राहून जाऊ नये, म्हणून ! (Paper No: V)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	विभाग १ नाटक - वाङ्मय प्रकार : संकल्पना व स्वरूप देवबाभळी - आशयसूत्रे व कथानक	Human Values
2.	विभाग २ देवबाभळी - पात्रे, घटना, प्रसंग, संवाद व संघर्ष	Gender Equality, Professional Ethics, Environment Ethics
3.	विभाग ३ देवबाभळी - नाट्यविशेष व भाषिक विशेष	Professional Ethics Human Values
4.	विभाग ४ उपयोजित मराठी - अभिवाचन अभिवाचन : संकल्पना स्वरूप अभिवाचनाचा उद्देश अभिवाचनाकरिता पूरक साधने अभिवाचनासाठी आवश्यक गुण कथा, कविता, नाटक, कादंबरीअंश इत्यादीचे प्रात्यक्षिकासह अभिवाचन	Environment Ethics
5.	विभाग १ ललित गध्य : संकल्पना व स्वरूप चांदण्यात भिजायचं राहून जाऊ नये, म्हणून ! लेख क्र. १ ते ११	Sustainability Ethics. Human Values Human Values

	(आशयसुत्रे व वाङ्मयीन विशेष)	
6.	विभाग २ चांदण्यात भिजायचं राहून जाऊ नये, म्हणून ! लेख क्र. ११ ते २० (आशयसुत्रे व वाङ्मयीन विशेष)	Human Values, Sustainability Ethics Human Values
7.	विभाग ३ चांदण्यात भिजायचं राहून जाऊ नये, म्हणून ! लेख क्र. २१ ते २९ (आशयसुत्रे व वाङ्मयीन विशेष)	Sustainability Ethics, Human Values
8.	विभाग ४ उपयोजित मराठी - ललित गध्य लेखन कौशल्य ललित गध्य : संकल्पना व स्वरूप ललित गध्याचे विशेष ललित गध्याचे प्रकार	Sustainability Ethics, Human Values. Environment Ethics


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Class: B.A.II Semester No: III & IV

Title of the Paper: कवितासंग्रह : पक्ष्यांचे लक्ष थवे (Paper No: IV)

Title of the Paper: बनगरवाडी (Paper No: VI)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	विभाग १ निसर्ग कविता १.हया शेताने लळा. २.हया नभाने या भुईला.. ३. मीच माझा एक कली ४. नांगरुन पडलेली जमीन. ५. नदीचा काठ ६. नदी काठावर ७. झाडे झाली हिरवीशी ८. जरा अस्मान झुकले ९. पक्ष्यांचे लक्ष थवे १०. जन्मापासूनचे दुःख ११. हया झाडांचे रंग.१२. मन चिंब पावसाळी	Human Values
2.	विभाग २ प्रेम कविता १.चवळीची शेंग २.फुलात न्हाली ३.विस्तीर्ण नदीचा काठ ४.पाण्यात लगडले पाय ५. पोर तो-यात ऐन भरात ६. डोळे थकून ७. न्हात्या धुत्या पोरी ८. नुकत्या न्हालेल्या केसांना ९. नको पायात पैजण १०. पक्ष्यांची भाषा ११. देखण्या डोळ्यांचे १२.माळ्याच्या मळ्यात	Gender Equality, Professional Ethics, Environment Ethics
3.	विभाग ३ गीतात्मक कविता १.हिरव्या पानात काही २. झाडे झाली हिरवीशी ३. दिवे लागण्याची वेळ ४.घन ओथंबून येती ५.आज उदास उदास ६. राजसा जवळी जरा बसा ७. गो-या देहावरती ८. नभ	Professional Ethics Human Values

	उतरु आले १०. दूराच्या रानात ११. चिंब पावसान रान १२. मोडलेल्या माणसांचे १३. पाणी पाणी पाणी	
4.	विभाग ४ उपयोजित मराठी- गीतलेखन गीतलेखन : संकल्पना स्वरूप कविता व गीत यामधील साम्य भेद गीतलेखनाचे प्रकार १.बालगीत २. भावगीत ३.चित्रपट गीत ४.जाहिरातीसाठी गीतलेखन ५. शीर्षकगीत ६.जिंगल्स इत्यादी प्रात्यक्षिकासह गीत लेखन	Environment Ethics
5.	विभाग १ कादंबरी वाङ्मय प्रकार : संकल्पना व स्वरूप बनगरवाडी : आशयसूत्रे	Sustainability Ethics. Human Values Human Values
6.	विभाग २ बनगरवाडी : व्यक्तिरेखा, वातावरण,घटना- प्रसंग	Human Values, Sustainability Ethics Human Values
7.	विभाग ३ बनगरवाडी : वाङ्मयीन विशेष	Sustainability Ethics, Human Values
8.	विभाग ४ उपयोजित मराठी - रिपोर्टाज लेखन रिपोर्टाज लेखनाची संकल्पना व परंपरा रिपोर्टाज लेखनाचे स्वरूप रिपोर्टाज लेखनाचे प्रकार १.राजकीय २. सामाजिक ३. पर्यावरणीय ४. आरोग्यविषयक ५. शिक्षणविषयक ६.सांस्कृतिक इत्यादी प्रात्यक्षिकासह रिपोर्टाज लेखन	Sustainability Ethics, Human Values. Environment Ethics


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New Syllabus Introduced from June 2020

Class: B.A.III Semester No: V & VI

Title of the Paper: साहित्यविचार (VII&XII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	साहित्याचे स्वरूप	Sustainability Ethics, Human Values. Environment Ethics
2.	साहित्याचे प्रयोजन	Sustainability Ethics, Human Values. Environment Ethics
3.	साहित्यनिर्मितीची कारणे	Sustainability Ethics, Human Values. Environment Ethics
4.	अलंकार	Sustainability Ethics, Human Values. Environment Ethics
5.	शब्दशक्ती	Sustainability Ethics, Human Values. Environment Ethics
6.	रसविचार	Sustainability Ethics, Human Values. Environment Ethics
7.	साहित्याची भाषा	Sustainability Ethics, Human Values. Environment Ethics
8.	छंद व वृत्ते	Sustainability Ethics, Human Values. Environment Ethics

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Class: B.A.III Semester No: V & VI

Title of the Paper: मराठी भाषा व भाषाविज्ञान (VIII& XIII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	भाषोत्पत्ती विचार	Sustainability, Human Values
2.	भाषेचे स्वरूप, व्याख्या आणि वैशिष्ट्ये	Sustainability
3.	स्वनिम व रूपिम विचार	Sustainability, Human Values
4.	वाक्यविचार	Human Values, Sustainability
5.	मराठीची वर्णमाला	Sustainability Ethics, Human Values. Environment Ethics
6.	मराठीचे ध्वनी परिवर्तन	Sustainability Ethics, Human Values. Environment Ethics
7.	मराठीचे अर्थ परिवर्तन	Sustainability Ethics, Human Values. Environment Ethics
8.	प्रमाण मराठी भाषा आणि तिच्या बोली	Sustainability Ethics, Human Values. Environment Ethics



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New Syllabus Introduced from June 2020 .

Class: B.A.III Semester No: V & VI

Title of the Paper: मध्ययुगीन मराठी वाङ्मयाचा इतिहास

(प्रारंभ ते इ.स.१५००)

(IX & XIV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	घटक मराठी वाङ्मयाचा प्रारंभकाळ ते इ.स.१२०० पर्यंत	Sustainability Ethics, Human Values. Environment Ethics
2.	घटक मराठी वाङ्मयाचा प्रारंभकाळ ते इ.स.१२०० ते १३०० पर्यंत महानुभावीय पध्य वाङ्मय	Sustainability Ethics, Human Values. Environment Ethics
3.	ज्ञानेश्वर ते नामदेव वाङ्मयीन कार्य	Sustainability Ethics, Human Values. Environment Ethics
4.	अन्य संप्रदायातील प्रमुख ग्रंथकार आणि ग्रंथराचना	Sustainability Ethics, Human Values. Environment Ethics
5.	एकनाथांची साहित्य संपदा	Sustainability Ethics, Human Values. Environment Ethics
6.	तुकारामांची साहित्य संपदा	Sustainability Ethics, Human Values. Environment Ethics
7.	निवडक पंडित कवींच्या काव्याचा अभ्यास	Sustainability Ethics, Human Values. Environment Ethics
8.	बखर वाङ्मय शाहिरी वाङ्मय	Sustainability Ethics, Human Values. Environment Ethics



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Class: B.A.III Semester No: V & VI

Title of the Paper: मराठी भाषा व अर्थाजनाच्या संधी (X & XV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	सर्जनशील लेखन : संकल्पना.स्वरूप	Sustainability and Professional Ethics
2.	वैचारिक लेखन	Sustainability and Professional Ethics
3.	शोधनिबंध व प्रकल्प लेखन	Sustainability and Professional Ethics
4.	आंतरजालावरील मराठी	Sustainability and Professional Ethics
5.	प्रसारमाध्यमांतील अर्थाजनाच्या संधी व भाषिक कौशल्ये	Sustainability and Professional Ethics
6.	उद्योग सेवा क्षेत्र व मराठी भाषा	Sustainability and Professional Ethics
7.	मुद्रितशोधन	Sustainability and Professional Ethics
8.	स्पर्धा परीक्षांसाठी मराठी	Sustainability and Professional Ethics


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Class: B.A.III Semester No: V & VI

Title of the Paper: वाङ्मयप्रवाहांचे अध्ययन : मध्ययुगीन (XI & XVI)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	मध्ययुगीन साहित्य आणि महानुभावीय साहित्य	Sustainability, Human Values & Professional Ethics
2.	दृष्टांतपाठातील आशयसूत्रे	Sustainability, Human Values & Professional Ethics
3.	दृष्टांतपाठातील अभिव्यक्ती विशेष	Sustainability, Human Values & Professional Ethics
4.	दृष्टांतपाठातील भाषावैभव	Sustainability, Human Values & Professional Ethics
5.	ललित गध्य,व्यक्तिचित्रे संकल्पना आणि स्वरूप	Sustainability, Human Values & Professional Ethics
6.	रामा मैलकुली,मृत्युचे चुंबन घेणारा महाकवी,निळू मांग,मोरणी	Sustainability, Human Values & Professional Ethics
7.	जमीला जावद,व्यंकट अण्णा, दगडू मामा, मुंबईचा चित्रकार	Sustainability, Human Values & Professional Ethics
8.	हिरा, बाबा मास्तर, दादासाहेब वस्ताद, डोकेवाला संशोधक	Sustainability, Human Values & Professional Ethics



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Department Activity Covered Ethics

2023-24

Sr.No.	Activity Title	Covered Ethics
1.	Guest Lecture of "Vachan Prerana Din"	Human Values Professional Ethics
2.	Watering the Plant.	Human Values Professional Ethics
3.	Poem Reading	Human Values Professional Ethics

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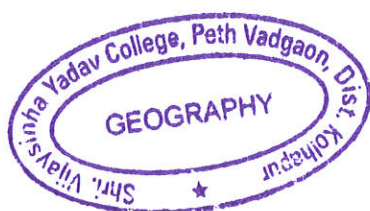
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Department of Geography
Syllabus Values
B. A. I Semester I
Paper No. I, Geography (Physical Geography)

Year	Syllabus	Values
2016	Module – I Introduction to Physical Geography 1.3 Branches of Physical Geography 1.4 Importance of Physical Geography Module V – Map (Practical) 5.1 Map: Definition, Elements and Types 5.2 Maps and Globe- Similarities and Differences 5.3 Significance and Use of Maps and Globe	Professional Ethics
	Module- II Atmosphere 2.1 Composition and Structure of Atmosphere 2.2 Insolation: Factors affecting on Insolation 2.3 Temperature: Distribution of temperature (Vertical and Horizontal) 2.4 Atmospheric Pressure: Belts and Planetary Winds. Module – III Lithosphere 3.1 Interior of the earth 3.2 Wagner’s Continental Drift Theory 3.3 Earthquakes – Causes and Effects 3.4 Volcano – Causes and Effects Module – IV Denudation 4.1 Weathering: Concept and Types 4.2 Davis Concept of Cycle of erosion 4.3 Erosional Landforms of river. 4.4 Depositional Landforms of river	Environmental and Sustainability

B. A. I Semester II

Paper No. II, Geography (Human Geography)

Year	Syllabus	Values
2016	Module- I Human Geography 1.2 Scope of Human Geography 1.3 Branches of Human Geography 1.4 Importance of Human Geography Module –III Settlement 3.1 Types and patterns of rural settlements 3.2 Functions of Rural Settlements 3.3 Factors affecting on urbanization 3.4 Functions of Urban Centers Module – IV Agriculture 4.1 Origin and History of Agriculture 4.2 Types of Agriculture 4.3 Factors affecting on agriculture 4.4 Problems of Agriculture Module – V Google Earth 5.1 Concept of Google Earth 5.2 Application of Point, Line and Polygon according to Feature 5.3 Exercises with Google Earth Programme	Professional Ethics, Human Values and Environmental Sustainability
	Module –II Population 2.1 Factors affecting on distribution of population 2.2 Malthus' theory of Population Growth 2.3 Demographic Transition Theory 2.4 Migration: Types and Effects	Gender Equality, Human Values and Environmental Sustainability



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Department of Geography
Syllabus Values

B. Sc. I Semester I Paper I, Geography (Physical Geography)

Year	Syllabus	Values
2016	Module I: Introduction to Physical Geography and Atmosphere 1.2 Branches of Physical Geography 1.3 Recent Trends in Physical Geography 1.4 Importance of Physical Geography 1.5 Composition and Structure of Atmosphere, Weather and Climate Module II: Insolation, Temperature, Atmospheric Pressure and Indian Monsoon 2.1 Insolation: Definition, Factors Affecting on Distribution of Insolation, World Distribution of Insolation, Heat Balance of the Earth 2.2 Temperature: Factors Controlling Temperature, Distribution of Temperature: Horizontal and Vertical 2.3 Pressure: Definition, Vertical and Horizontal Distribution, Pressure Belts, Shifting of Pressure Belts 2.4 Indian Monsoon: Indian Monsoon and Tibet Plateau, Jet Stream and El-Nino 2.5 Seasons in India: Summer, Rainy and Winter	Professional Ethics and Environmental Sustainability

B. Sc. I Semester I Paper II, Geography (Physical Geography)

Year	Syllabus	Values
2016	Module I: Lithosphere and Earth's Movements 1.1 Interior of the Earth: Structure of the Earth's Interior, Density and Temperature in the interior of the earth 1.2 Rocks: Definition, Classification of Rocks, Igneous Rocks, Sedimentary Rocks and Metamorphic Rocks (Characteristics, Classification and Landforms) 1.3 Endogenetic Forces, Diastrophic Forces and Movements: Folds and Faults 1.4 Wegener's Theory of Continental Drift Module II: Fluvial Geomorphology and Hydrosphere 2.1 Cycle of Erosion - W. M. Davis 2.2 Running Water or River: Major Landforms Formed by Erosion, Transportation and Depositional Processes of River 2.3 Temperature of Ocean Water: Factors Affecting on Horizontal and Vertical Distribution of Temperature of Ocean Water 2.4 Salinity of Ocean Water: Affecting Factors on salinity of Ocean Water, Distribution of Salinity- Horizontal and Regional	Professional Ethics and Environmental Sustainability

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Syllabus Values

B. Sc. I Semester II, Paper III, Geography (Human Geography)

Year	Syllabus	Values
2016	Module I: Human Geography and Human Race 1.2 Branches of Human Geography 1.3 Recent Trends in Human Geography 1.4 Importance of Human Geography 1.5 Human Races – Major Racial Groups and Classification 1.6 Religious and Ethnic Groups in the World Module II: Population 2.1 World Growth of Population 2.2 Factors Affecting on the Distribution of the World Population 2.3 Distribution of the World Population 2.4 Theory of Population Growth – Malthus 2.5 Demographic Transition Theory	Gender Equality, Human Values and Environmental Sustainability

B. Sc. I Semester II, Paper IV, Geography (Human Geography)

Year	Syllabus	Values
2016	Module I: Human Geography and Human Race 2.2 Branches of Human Geography 2.3 Recent Trends in Human Geography 2.4 Importance of Human Geography 2.5 Human Races – Major Racial Groups and Classification 2.6 Religious and Ethnic Groups in the World Module II: Population 2.1 World Growth of Population 2.2 Factors Affecting on the Distribution of the World Population 2.3 Distribution of the World Population 2.4 Theory of Population Growth – Malthus 2.5 Demographic Transition Theory	Gender Equality, Human Values and Environmental Sustainability

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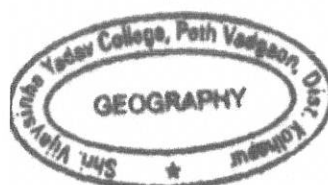
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Syllabus Values

B. Sc. I Semester I and II (Practical Paper I)

Year	Syllabus	Values
2016	<p>Unit I Map</p> <p>1.1 Map: Definition, Elements and Types ,</p> <p>1.2 Maps and Globe – Similarities and Differences,</p> <p>1.3 Significance and uses of Maps and Globes.</p> <p>Unit II Map Scale</p> <p>2.1 Meaning and Definition,</p> <p>2.1 Methods of Representation of scale</p> <p> i) Verbal</p> <p> ii) Numerical</p> <p> iii) Graphical</p> <p>2.3 Scale Conversion</p> <p> i) Verbal to Numerical</p> <p> ii) Numerical to Verbal</p> <p>2.4 Construction of Graphical Scale</p> <p> i) Simple (Plane Scale)</p> <p> ii) Comparative Scale</p> <p> iii) Time and Distance Scale</p> <p> iv) Diagonal Scale</p> <p>Unit III Map Projection</p> <p>3.1 Definition and Classification of Map Projection</p> <p>i) Based on the methods of Construction –</p> <p> Perspective and Non-perspective</p> <p>ii) Based on Developable Surface used -</p> <p> Conical, Cylindrical, Zenithal, Conventional.</p> <p>iii) Based on Position of Tangent Surfaces –</p> <p> Polar, Equatorial (normal), Oblique.</p> <p>iv) Based on Position of view point or light –</p> <p> Gnomonic, Stereographic, Orthographic</p> <p>v) Based on Preserved qualities -</p> <p> i) Equal area projection (Homolographic)</p> <p> ii) Orthographic Projection</p> <p>iii) Azimuthal Projection (True Bearing Projection)</p> <p>3.2 Graphical Construction of the following Projections:</p> <p> i) Zenithal Polar Gnomonic Projection</p> <p> ii) Zenithal polar Equidistant Projection</p> <p> iii) Zenithal Polar Equal Area Projection</p> <p> iv) Cylindrical Equal –Area Projection</p> <p> v) Simple Conical Projection with one standard Parallel</p> <p> vi) Mercator's Projection</p> <p> vii) Bonne's Projection.</p> <p>Unit IV Representation of Statistical Data</p> <p>4.1 Graphs and Diagrams</p>	Professional Ethics

	<p>i) One Dimensional Diagrams:</p> <p>a) Band Graph</p> <p>b) Climograph</p> <p>c) Hythergraph</p> <p>4.2 Two Dimensional Diagrams:</p> <p>a) Proportional Circle</p> <p>b) Proportional Spheres</p> <p>4.3 Three Dimensional Diagram: Cube Diagram</p> <p>4.4 Distributional Diagram</p> <p>a) Choropleth Map</p> <p>b) Isopleths Map</p>	
	<p>Unit V Remote Sensing</p> <p>5.1 Definition, Concept and history of Remote Sensing</p> <p>5.2 Elements of Remote Sensing: EMR, Sensors and Platforms.</p> <p>5.3 Application of Remote Sensing in Geography</p> <p>5.4 Aerial photographs and Satellite imagery: Definition, types and difference between them.</p> <p>5.5 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery with the help of stereoscope.</p> <p>5.6 Determination of Photo Scale.</p>	<p>Professional Ethics , Human Values and Environmental and Sustainability</p>



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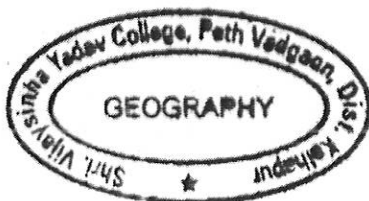
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Syllabus Values

B. A. II Semester III

Paper No. III, Geography (Soil Geography)

Year	Syllabus	Values
2022	Module I: Basics of Soil Geography 1.1 Definition, Nature and Scope of Soil Geography 1.2 History of Soil Geography and Pedology 1.3 Significance of Soil Geography	Professional Ethics
	Module II: Soils: Formation and Properties 2.1 Jenny's Factorial Model of Soil Formation: Parent Material, Biotic, Climatic, Relief and Time factor. 2.2 Process of Soil Formation: Physical, Biotic and Chemical. 2.3 Physical Properties of Soils: Morphology, Texture, Structure, Water, Air and Temperature. 2.4 Chemical Properties of Soils: pH, Organic Matter, NPK (Nitrogen, Phosphorous and Potassium).	Environmental and Sustainability
	Module III: Soils: Classifications and Distribution 3.1 Genetic Classification of Soils 3.2 Soil Characteristics and Major Soils Distribution in Maharashtra 3.3 Soil Degradation: Concept, Causes, Consequences and Measures	
	Module IV: Soil Analysis 4.1 Soil Profile 4.2 Soil Sample: Tools 4.3 Soil Analysis: Saline and Alkaline 4.4 Vermicomposting Process	Professional Ethics
	Module V: Practical 5.1 Draw Soil Profile of local area 5.2 Calculate soil properties with soil meter: pH, light, moisture 5.3 Calculate NPK soil properties of local area.	



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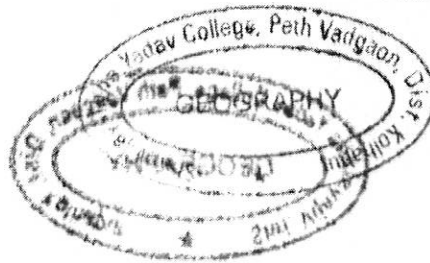
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Syllabus Values

B. A. II Semester III

Paper No. IV, Geography (Resource Geography)

Year	Syllabus	Values
2022	Module I: Introduction to Resource Geography 1.2 Resource: Concept and Classification 1.3 Importance of Resource Geography	Professional Ethics
	Module II: Major Resources 2.1 Water Resources: Distribution, Utilization and Problems 2.2 Forest Resources: Distribution, Utilization and Problems 2.3 Energy Resources: Distribution, Utilization and Problems 2.4 Human Resources: Distribution, Utilization and Problems Module III: Sustainable Resource Development 3.1 Concept of Sustainable Resource Development 3.2 Sustainable Natural Resource Development: Water, Forest and Energy 3.3 Sustainable Human Resource Development Module IV: Sustainable Resource Development in India 4.1 Need of Sustainable Resource Development in India 4.2 Management for Sustainable Natural Resource Development: Water, Forest and Energy 4.3 Management for Sustainable Human Resource Development	Environmental and Sustainability
	Module V: Practical (Theory Only) 5.1 Proportional Circle 5.2 Choropleth Map 5.3 Dot Map 5.4 Isopleth Map	Professional Ethics



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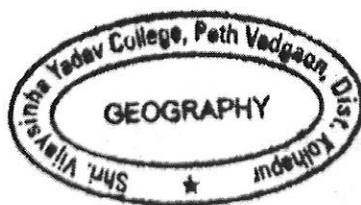
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Syllabus Values

B. A. II Semester III

IDS Paper No. I, Introduction to Tourism Geography

Year	Syllabus	Values
2019	<p>Module I: Introduction to Tourism Geography</p> <p>1.3 Scope of Tourism Geography</p> <p>1.4 Historical development of Tourism</p> <p>1.5 Significance of Tourism Geography</p> <p>Module II: Component of Tourism</p> <p>2.1 Geographical components</p> <p>2.2 Social components</p> <p>2.3 Cultural components</p> <p>2.4 Other components</p> <p>Module III: Classification and Recent Trends in Tourism</p> <p>3.1 Classification on the basis of Nationality, Time, Number of tourist, Objectives, Transportation, Season, and Nature of Tourism.</p> <p>3.2 Recent trends in Tourism</p> <p>Module IV: Impact of Tourism</p> <p>4.1 Economic impact</p> <p>4.2 Socio-Cultural impact</p> <p>4.3 Impact on Environment</p> <p>4.4 Sustainable development of Tourism</p> <p>Module V: Data Collection Techniques in Tourism Geography</p> <p>5.1 Field surveys and interviews for gathering primary data.</p> <p>5.2 Questionnaires and surveys for collecting tourist information.</p> <p>5.3 Sampling techniques in tourism geography research</p>	Professional Ethics , Human Values and Environmental and Sustainability



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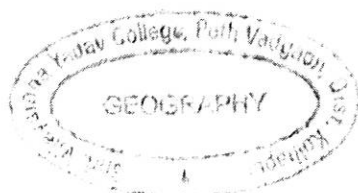
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Syllabus Values

B. A. II Semester IV

Paper No. V, Geography (Oceanography)

Year	Syllabus	Values
2019	Module I: Introduction to Oceanography 1.1 Definition, Nature and Scope of Oceanography 1.2 Oceanography and Physical Sciences 1.3 Branches of Oceanography 1.4 Significance of Oceanography	Professional Ethics
	Module II: Properties and Dynamics of Ocean 2.1 Oceanic Temperature: Factors affecting on ocean temperature and Distribution of oceanic temperature 2.2 Salinity of Ocean: Factors affecting on Oceanic salinity and Horizontal distribution of oceanic salinity 2.3 Oceanic Currents: Types of Oceanic currents, Responsible factors for Origin of ocean currents and Ocean currents of the Pacific, Atlantic and Indian Ocean	Professional Ethics, Human Values and Environmental and Sustainability
	Module III: Applied Oceanography 3.1 Ocean or Marine deposits: Sources and Classification 3.2 Ocean Resources – Biotic- Mineral and Energy Resources 3.3 Ocean as sources of food and as storehouse of resources for the future	
	Module IV: Man and Oceans 4.1 Manipulation of costal process 4.2 Ocean Pollution – Causes, Effects and Measures 4.3 Overfishing and fishery management Module V: Practical's (Theory Only) 4.1 Hypsographic Curve 4.2 Wind rose 4.3 Isohalines 4.4 Isotherms	Professional Ethics



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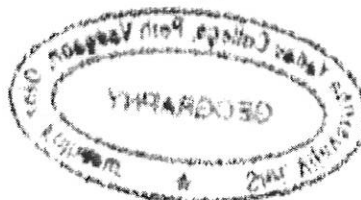
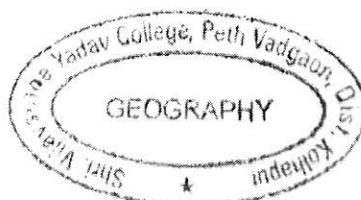
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Syllabus Values

B. A. II Semester IV

Paper No. VI, Geography (Agricultural Geography)

Year	Syllabus	Values
2022	Module I: Introduction to Agricultural Geography 1.1 Definition, Nature, Scope and Significance of Agricultural Geography 1.2 Evolution of agriculture: Ancient, Medieval and Modern Period 1.3 Determinants of Agriculture: Physical and Human (economic, social, cultural, political and administrative)	Professional Ethics
	Module II: Agriculture: Systems and Land-use Theory 2.1 Major Agricultural Systems: Nomadic Herding, Livestock Ranching, Shifting Cultivation, Intensive Subsistence Farming, Commercial Farming and Horticulture 2.1 Von Thunen's Theory of Agricultural land-use Module III: Regionalization, Problems and Modern Concepts in Agriculture 3.1 Agricultural Regionalization (Crop Combination and Crop Diversification) 3.2 Agricultural Problems: Physical and Socio-economical (Economic, Social, Cultural, Political and Administrative) 3.3 Modern Concepts in Agriculture: Green revolution and Organic Farming Module IV: Food, Nutrition and Health 4.1 Distribution pattern of Food and Nutrition 4.2 Causes and Spatial Pattern of Hunger 4.3 Eradication of Hunger 3.1 4.4 Nutrition and Health	Professional Ethics, Human Values and Environmental and Sustainability
	Module V: Practical (Theory Only) 5.1 Line and Bar Graphs 5.2 Divided Circle 5.3 Proportional Square 5.4 Choropleth Map	Professional Ethics



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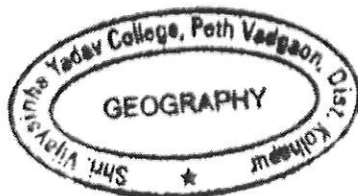
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Syllabus Values

B. A. II Semester IV

IDS Paper No. II, Development and Planning of Tourism

Year	Syllabus	Values
2019	<p>Module I: Development and Planning of Tourism in India</p> <p>1.1 Tourism in ancient period</p> <p>1.2 Tourism in modern period</p> <p>1.3 Role of tourism in national economy</p> <p>1.4 Tourism planning in India</p> <p>Module II: Tourism Centers in India</p> <p>2.1 Natural tourism centers in India</p> <p>2.2 Religious tourism centers in India</p> <p>2.3 Cultural tourism centers in India</p> <p>2.4 Historical tourism centers in India</p> <p>Module III: Development and Planning of Tourism in Maharashtra</p> <p>3.1 Development of tourism in Maharashtra</p> <p>3.2 Planning of tourism in Maharashtra</p> <p>Module IV: Tourism Centers in Maharashtra</p> <p>4.1 Natural tourism centers in Maharashtra</p> <p>4.2 Religious tourism centers in Maharashtra</p> <p>4.3 Cultural tourism centers in Maharashtra</p> <p>4.4 Historical tourism centers in Maharashtra</p> <p>Module V: Travel documentation</p> <p>5.1 Passport</p> <p>5.2 Visa</p> <p>5.3 Ticketing</p> <p>5.4 Tour itinerary</p>	Professional Ethics , Human Values and Environmental and Sustainability



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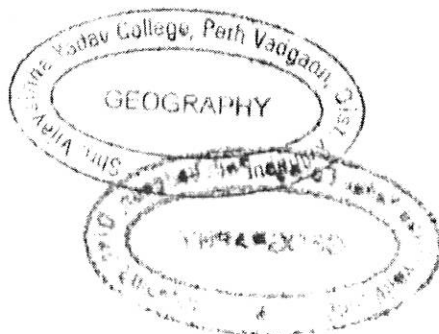
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Syllabus Values

B. A. III Semester V

Paper No. VII, Geography (Evolution of Geographical Thoughts)

Year	Syllabus	Values
2020	<p>Module – I Geography in Ancient Period</p> <p>1.1 Contribution of Greeks and Romans</p> <p>1.2 Arab Geographical Thoughts</p> <p>1.3 Indian Geographical Thoughts</p> <p>1.4 Exploration and Development of Geography</p> <p>Module – II Schools of Geography</p> <p>2.1 German School of Geography – Alexander von Humboldt</p> <p>2.2 French School of Geography – Vidal de la Blache</p> <p>2.3 American School of Geography – William Morris Davis</p> <p>2.4 British School of Geography – Halford J. Mackinder</p> <p>Module – III Dualisms in Geography</p> <p>3.1 Determinism Vs Possibilism</p> <p>3.2 Systematic Vs Regional geography</p> <p>3.3 Physical Vs Human geography</p> <p>3.4 Historical Vs Contemporary</p> <p>Module – IV Trends in Geography</p> <p>4.1 Quantitative Revolution</p> <p>4.2 Model Building in Geography</p> <p>4.3 Man-nature relationship: Radicalism, Behaviourism and Humanism</p> <p>4.4 Future of Geography</p>	Professional Ethics and Human Values



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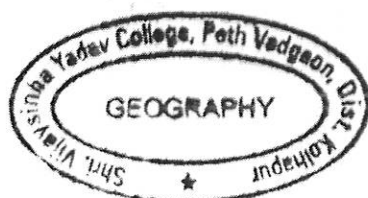
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Syllabus Values

B. A. III Semester V

Paper No. VIII, Geography (Geography of India)

Year	Syllabus	Values
2020	<p>Module –I: Physical Profile of India</p> <p>1.1) Location (Absolute and Relative)</p> <p>1.2) Physiographic Divisions (Characteristics and Importance)</p> <p>1.3) Climate: Summer, Rainy and Winter Seasons in India (weather conditions and Characteristics)</p> <p>1.4) Major Drainage Systems:</p> <p>a) Northern River Systems (Sindhu, Ganga & Brahmaputra)</p> <p>b) Southern River Systems (Godavari, Krishna & Cauvery) (Characteristics and Importance)</p> <p>Module –II: Soils and Forests</p> <p>2.1 Major soil types, characteristics and its distribution in India</p> <p>2.2 Soil degradation and soil conservation in India</p> <p>2.3 Major forest types: characteristics and their distribution</p> <p>2.4 Deforestation and conservation of forests in India</p> <p>Module –III: Mineral and Power Resources</p> <p>3.1 Conventional Resources: Iron Ore and Manganese (Distribution, Production and Trade)</p> <p>3.2 Power Resources: Coal and Mineral Oil (Distribution, Production and Trade)</p> <p>3.2 Non Conventional Resources: Solar and Wind (Distribution, Production and Trade)</p> <p>Module –IV: Agriculture and Industry</p> <p>4.1 Importance of Agriculture in Indian Economy.</p> <p>4.2 Major Crops: Rice and Sugarcane (Distribution, Production and Trade)</p> <p>4.3 Importance of Industries in Indian Economy.</p> <p>4.4 Industries: Location Factors, Sugar Industry, Iron and Steel Industry and Fertilizer Industry (Distribution, Production and Trade)</p>	Professional Ethics, Environmental and Sustainability



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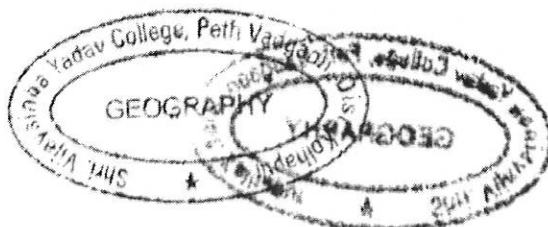
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Syllabus Values

B. A. III Semester V

Paper No. IX, Geography (Population Geography)

Year	Syllabus	Values
2020	Module I: Introduction to Population Geography 1.3 Significance of Population Geography 1.4 Sources of Population Data	Professional Ethics
	Module II: Population Growth and Distribution 2.1 World Population Growth 2.2 Factors Affecting on the Population Distribution 2.3 Population Distribution of the World 2.4 Population Concepts: Minimum Population, Optimum Population and Over Population	Professional Ethics, Gender Equality, Human Values and Environmental and Sustainability
	Module III: Population Dynamics 3.1 Concept of Population Dynamics 3.2 Fertility: Concept and Types 3.3 Fertility: Causes, Effects and Measures 3.4 Mortality: Concept and Types 3.5 Mortality: Causes, Effects and Measures	
	Module IV: Population Composition 4.1 Age 4.2 Sex 4.3 Literacy 4.4 Rural and Urban Population	Gender Equality, Human Values



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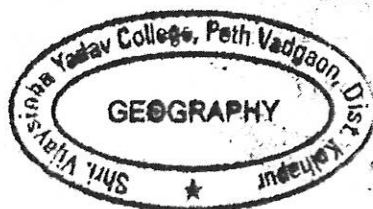
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B. A. III Semester VI

Paper No. XI, Geography (Economic Geography)

Year	Syllabus	Values
2020	Module – I Introduction to Economic Geography 1.2 Concept and Classification of Economic Activity 1.3 Branches of Economic Geography 1.4 Significance of Economic Geography	Professional Ethics
	Module – II Economic Activity 2.1 Factors Affecting on Location of Agricultural Activity 2.2 Factors Affecting on Location of Industrial Activity 2.3 Alfred Weber's Theory of Industrial Location Module – III Manufacturing Activity 3.1 Concept of Manufacturing Region 3.2 Concept of Special Economic Zone 3.3 Major Industries: i) Cotton Textile Industry - USA ii) Iron and Steel Industry – USA iii) Sugar Industry – Brazil iv) Automobile Industry – India Module – IV Transport and Trade 4.1 Significance of Transportation 4.2 Major Transport Routs: Roadway, Railway, Airway and Ocean Routs 4.3 International Trade: India and USA 4.4 Trade Policies: India and USA	Professional Ethics, and Environmental and Sustainability



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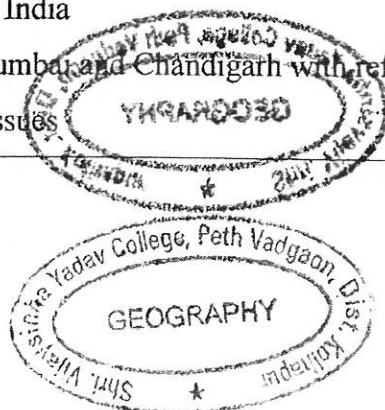
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Syllabus Values

B. A. III Semester VI

Paper No. XI, Geography (Urban Geography)

Year	Syllabus	Values
2020	Module-I: Introduction to Urban Geography 1.3 Approaches of Urban Geography 1.4 Significance of Urban Geography	Professional Ethics
	Module-II: Urbanization 2.1 Site and Situation: Significance and Types 2.2 Concept and Factors of Urbanization 2.3 Patterns of Urbanization in developed and developing countries 2.4 Functional classification of cities (Quantitative and Qualitative) Module-III: 3 Structure and Morphology of Urban Centers 3.1 Structure and Morphology 3.2 City Region and C.B.D. 3.3 Rural-Urban Fringe 3.4 Models of Town Morphology: The Concentric Zone Theory, the Sector Theory and the Multi-Nuclei Theory Module-IV: Urban Problems and Issues 4.1 Urban Issues: problems of housing, slums, civic amenities (water and transport) 4.2 Concept of Garden City 4.3 Urban Planning in India 4.4 Case studies of Mumbai and Chandigarh with reference to Land use and Urban Issues	Professional Ethics, Human Values and Environmental and Sustainability



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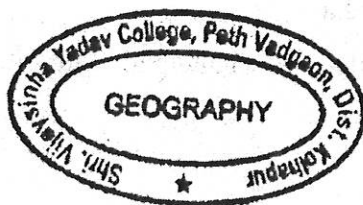
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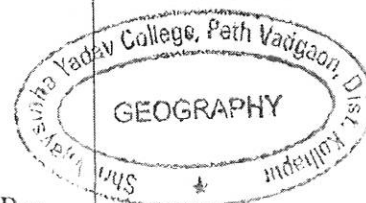
B. A. III Semester VI

Paper No. XII, Geography (Political Geography)

Year	Syllabus	Values
2020	Module I: Introduction to Political Geography 1.3 Approaches of Political Geography 1.4 Significance of Political Geography	Professional Ethics
	Module II: Concepts in Political Geography 2.1 State 2.2 Nation 2.3 Boundary 2.4 Frontier	
	Module III: Theories in Political Geography 3.1 Hartland Theory - Halford J. Mackinder 3.2 Rimland Theory – Nicholas J. Spykeman	Professional Ethics, Human Values and Environmental and Sustainability
	Module IV: Resource Disputes and Conflicts 4.1 Krishna Water Dispute 4.2 Ganga Water Dispute 4.3 Sardar Sarovar Project: Issues of Relief, Compensation and Rehabilitation 4.4 Chandoli Dam Project: Issues of Relief, Compensation and Rehabilitation	



Year	Syllabus	Values
2020	<p>Module – I: Introduction to Map and Scales:</p> <p>1.1 Map</p> <p>1.1.1 Map: Definition and Elements</p> <p>1.1.2 Classification of Maps: Based on Scale and Purpose</p> <p>1.2 Scale</p> <p>1.2.1 Meaning and Definition,</p> <p>1.2.2 Methods of Representation of scale - Verbal, Numerical and Graphical.</p> <p>1.2.3 Scale Conversion</p> <p>1.2.4 Construction of Graphical Scale –</p> <p>i) Simple (Plane Scale)</p> <p>ii) Time and Distance Scale</p> <p>iii) Diagonal Scale</p> <p>Module II: Map Projection Periods</p> <p>2.1 Definition, Classification of Projections:</p> <p>a) Based on the methods of Construction: Perspective and Non-perspective</p> <p>b) Based on Developable Surface used: Conical, Cylindrical, Zenithal, Conventional.</p> <p>c) Based on Position of Tangent Surfaces: Polar, Equatorial (normal), Oblique.</p> <p>d) Based on Position of view point or light: Gnomonic, Stereographic, Orthographic</p> <p>e) Based on Preserved qualities:</p> <p>i) Equal area projection (Homolographic)</p> <p>ii) Orthographic Projection</p> <p>iii) Azimuthal Projection (True Bearing Projection)</p> <p>2.2 Graphical Construction of the following Projections with Properties and Use:</p> <p>i) Zenithal Polar Gnomonic Projection</p> <p>ii) Zenithal Polar Equal Area Projection</p> <p>iii) Simple Conical Projection with one standard Parallel</p> <p>iv) Cylindrical Equal Area Projection</p> <p>v) Mercator's Projection and Reference to Universal Transverse Mercator (UTM) Projection</p> <p>Module – III : Identification, Mapping of Slope, Relief Features and Profiles</p> <p>3.1 Slope and Gradient</p> <p>3.1.1 Types of Slope: Gentle, Steep, Even, Uneven, Convex, Concave, Terraced.</p> <p>3.1.2 Expression of Slopes: a) Gradient b) Degree c) Per Cent d) Mills</p>	<p>Professional Ethics, Environmental and Sustainability</p>



3.1.2 Representation of Relief by Contours: Hill, Mountain, Ridge, Cliff, Saddle, Plateau, Knoll, Spur, Col or Pass, Volcanic Col or Crater, Gorge, 'V' Shaped Valley, Waterfall, 'U' Shaped Valley, Cirque, Hanging Valley, Ria Coast, Fiord Coast, Sea cliff.

3.2 Profiles

3.5.1 Superimposed Profile

3.5.2 Composite Profile

3.5.3 Projected Profile

3.5.4 Longitudinal Profile

Module – IV : Topographical Maps Periods

4.1 Indexing of S.O.I. Topographical Map

4.2 Signs, Symbols and Colors used in SOI Toposheet

4.3 Interpretation of S.O.I.'s Topographical Maps

a) Marginal Information

b) Physical environment: Relief, Drainage and Vegetation

c) Cultural environment: Settlements, Transportation and Communication, Irrigation.

d) Land Use

Professional
Ethics,
Environmental
and
Sustainability

Module V: Weather Instruments and IMD Maps

5.1 Study of weather Instruments with reference to Principle, Mechanism, and Function

a) Thermograph

b) Barograph

c) Dry and Wet Bulb Thermometer

d) Cup Anemometer

e) Rain Gauge

5.2 Isobaric Patterns: Cyclone, Anticyclone, Col, Ridge, Secondary Depression

5.3 Signs and Symbols used in Indian Daily Weather Maps

5.4 Interpretation of Indian Daily Weather Maps

Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal

Module VI : Representation Techniques of Statistical Data

a) Divided Rectangle

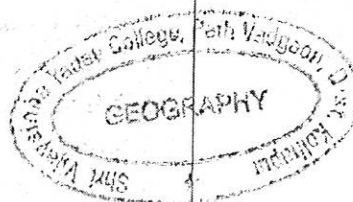
b) Proportional Circle

c) Proportional Square

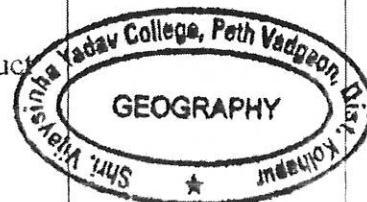
d) Choropleth Map

e) Dot Map

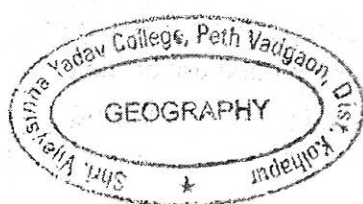
f) Isopleths



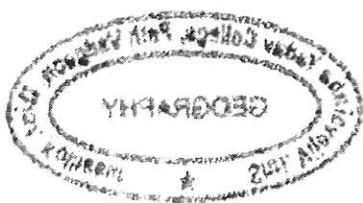
Year	Syllabus	Values
2020	<p>Module-I: Introduction to Computer</p> <p>1.1: Introduction to Computer</p> <p>1.2: Application of computer in geography</p> <p>1.2.1: Construction of Line Graphs, Bar Graphs</p> <p>1.2.2: Construction of Pie Diagram and Scatter Diagram</p> <p>1.3: Application of Excel for Data Analysis</p> <p>Module-II: Remote Sensing</p> <p>2.1 Definition of Remote Sensing</p> <p>2.2 Fundamentals of Remote Sensing: EMR, Sensors and Platforms</p> <p>2.3 Application of Remote Sensing in Geography</p> <p>2.4 Aerial photographs and Satellite imagery: Definition, types and difference between them</p> <p>2.5 Determination of Photo Scale</p> <p>2.6 Elements of image interpretation</p> <p>2.7 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery</p> <p>Module-III: GIS and GNSS</p> <p>3.1 Geographical Information System (GIS)</p> <p>3.1.1 Definition and components</p> <p>3.1.2 GIS Data Structure: Types (spatial and non-spatial), Raster and Vector data</p> <p>3.1.3 Georeferencing, Digitization, Map Layout Preparation</p> <p>3.1.4 Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests Monitoring</p> <p>3.2 Global Navigation Satellite System</p> <p>3.2.1 Definition and components</p> <p>3.2.2 GPS and its applications in Geography</p> <p>3.2.3 Field work in GPS: Determining latitude, longitude and altitude</p> <p>3.3: Exercise with Google earth Program.</p> <p>Module-IV: Statistical methods and techniques</p> <p>4.1 Measures of Central Tendency: Mean, Median and Mode</p> <p>4.2 Dispersion: Mean Deviation and Standard Deviation</p> <p>4.3 Association and Correlation: Karl Pearson's Method (Product Moment)</p> <p>4.4 Analysis of Time Series: Semi-average Method</p> <p>Module-V: Surveying</p> <p>5.1 Introduction to Survey: Meaning and types</p> <p>5.2 Preparation of plans of the given area with the following survey method (Any one methods among them)</p> <p>A- Plane Table survey (Radial, Intersection, and Traverse</p>	<p>Professional Ethics, Environmental and Sustainability</p>



	<p>method)</p> <p>B- Dumpy Level survey</p> <p>C- Theodolite survey</p> <p>D- Total Station</p> <p>E- Abony Level Survey</p> <p>5.3 Preparation of plans Prismatic compass survey (Radical, Intersection and Traverse method)</p> <p>5.3.1 Types and conversion of bearings.</p> <p>5.3.2 Correction of bearing.</p>	
	<p>Module-VI: Project work based on field work any one of following:</p> <p>Resource survey, Population survey, Agricultural survey, Settlement Survey, Environmental issues, Industrial visit, Health survey, Natural Hazard or Disaster</p> <p>1. Project Report must be content of following points:</p> <p>Introduction – Aims – Objectives - Review of the literature</p> <p>- Data collection – Methodology - Data Analysis –</p> <p>Interpretation - Findings – Suggestions - Bibliography</p> <p>Module- VII: Study Tour</p> <p>Maximum 15 days of Study Tour and preparation of Tour Report.</p> <p>The Study Tour Report must be content of following points:</p> <p>Introduction – Necessity – Importance - Route map – Objectives –</p> <p>Methodology - Geographical Profile (Natural, Socio-economic and Cultural) - Geographical importance of visited tourist places –</p> <p>Conclusion – References</p>	<p>Professional Ethics, Human Values, Environmental and Sustainability</p>



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Department of Political Science

Syllabus Values

B. A. III Semester V

Paper No. VII, Political Theory

Year	Syllabus	Values
2020	Module I: Political Theory 1.1 Nature and Scope 1.2 Political Philosophy 1.3 Decline, Resurgence and Importance	Professional Ethics Human Values
	Module III: Behaviouralism and Post Behaviouralism 3.1 Behaviouralism 3.2 Post Behaviouralism	Professional Ethics
	Module IV: Concepts in Political Theory 4.1 Political Power 4.2 Authority 4.3 Legitimacy	Professional Ethics Human Values

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Department of Political Science

Syllabus Values

B. A. III Semester V

Paper No. VIII, Public Administration

Year	Syllabus	Values
2020	Module I: Introduction to Public administration 1.1 Nature and Scope 1.2 Politics and administration Dichotomy 1.3 Evaluation	Professional Ethics Human Values
	Module II: Organization 2.1 Meaning and Bases 2.2 Principles 2.3 Units of Organization	Human Values Professional Ethics
	Module III: Financial Administration 3.2 Budgetary process in India 3.2 Parliamentary control on Budget	Professional Ethics
	Module IV: Accountability and Control 4.2 Control over Administration 4.3 Citizen and Administration 4.3 Citizen charter	Professional Ethics Human Values

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Department of Political Science

Syllabus Values

B. A. III Semester V

Paper No. IX, International Politics

Year	Syllabus	Values
2020	Module I: nature of International Politics 1.1 Nature and Scope	Professional Ethics Human Values
	Module II: National Power 2.1 Meaning	Professional Ethics
	Module III: Diplomacy 3. 1 Meaning 3.2 Kinds and Functions	Professional Ethics
	Module IV: New World Order 4.1 Cold- War 4.3 Regional Organization 4.3 Economic Organization	Professional Ethics Human Values

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Department of Political Science

Syllabus Values

B. A. III Semester V

Paper No. X, Comparative Politics

Year	Syllabus	Values
2020	Module I: Introduction to Public administration 1.1 Nature and Scope 1.2 Politics and administration Dichotomy 1.3 Evaluation	Professional Ethics Human Values
	Module II: Constitutionalism 2.2 Constitutionalism in UK 2.3 Constitutionalism in USA	Professional Ethics Human Values
	Module III: Federalism 3.1 meaning and Nature 3.2 Essential conditions	Professional Ethics
	Module IV: Political Parties and Pressure Group 4.1 meaning and types 4.3 Roll of Political Parties	Professional Ethics Human Values

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Syllabus Values

B. A. III Semester V

Paper No. XI, Western political Thought part - I

Year	Syllabus	Values
2020	Module I: Plato 1.1 Communism 1.2 Thought on Education 1.3 Ideal State	Professional Ethics Human Values
	Module II: Aristotal 2.1 Ideal King 2.2 State 2.3 Citizenship	Human Values
	Module III: Machiaveli 3.2 Thoughts on state 3.2 Religion and Politics	Professional Ethics
	Module IV: Roussess 4.2 Social Will 4.3 Social Contract	Professional Ethics Human Values

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Syllabus Values

B. A. III Semester VI

Paper No. XII, Modern Political Concepts

Year	Syllabus	Values
2020	Module I Feminism 1.1 Meaning and Origin 1.2 Characteristics of Feminism	Professional Ethics Human Values
	Module II: Multiculturalism 2.1 Meaning	Human Values
	Module III: Environmentalism 3.2 Origin 3.2 Characteristics 3.3 International Effort for Protection 3.4 Global Warming	Professional Ethics Environmental and Sustainability
	Module IV: Civil Society 4.2 Liberalism and Political Economy 4.4 Post colonialism and Civil society	Professional Ethics Human Values

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Syllabus Values

B. A. III Semester VI

Paper No. XIII, Politics and Movements In Maharashtra

Year	Syllabus	Values
2020	Module I Sanyukt Maharashtra 1.1 Movement of Maharashtra 1.2 The politics of Regional Imbalance	Professional Ethics Human Values
	Module II: Organization of State Government 2.1 Executive 2.2 Legislative	Professional Ethics
	Module IV: Political and Peasant Movement 3.2 Peasant Movement 3.2 Dalit Movement 3.3 Student Movement 3.4 Superstition Movement	Professional Ethics Environmental and Sustainability Human Values

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Syllabus Values

B. A. III Semester VI

Paper No. XIV, Foreign Policy of India

Year	Syllabus	Values
2020	Module I Foreign Policy 1.1 Meaning and Origin 1.2 Basic Principles	Professional Ethics Human Values
	Module II: India and Global Power 2.1 India – US Relation 2.2 India – USSR Relation 2.3 India – China Relation	Professional Ethics
	Module III: Indias Relation with his Neighbors 3.1 India - Pakistan 3.2 India – Bangladesh 3.3 India – Shri Lanka	Professional Ethics
	Module IV: Continuity and change of Indias Foreign Policy 4.1 Foreign Policy of India in Cold War Era 4.2 Foreign Policy of India in Post Cold War Era	Human Values Environmental and Sustainability

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Department of Political Science

Syllabus Values

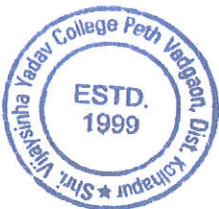
B. A. III Semester VI

Paper No. XV, Comparative Government

Year	Syllabus	Values
2020	Module I Legislature 1.1 Parliament of UK 1.2 Parliament of USA	Professional Ethics Human Values
	Module II: Executive 2.1 King, Prime Minister and Council of Ministers 2.2 The President, Vice President	Professional Ethics
	Module III: Judiciary 3.1 House of Lords and Supreme Court 3.2 Supreme Court of USA	Professional Ethics
	Module IV: Political parties and Pressure Groups 4.1 Political Party system in UK 4.2 Political Party system in UK	Human Values Environmental and Sustainability

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Department of Political Science

Syllabus Values

B. A. III Semester VI

Paper No. XVI, Western political Thought part - I

Year	Syllabus	Values
2020	Module I: J.S. Mill 1.1 Liberal Democracy 1.2 Liberty	Professional Ethics Human Values
	Module II: Karl Marx 2.1 Communism 2.2 State 2.3 Theory of Surplus Value	Human Values
	Module III: Antinio Gramsci 3.2 Thoughts on Neo Marxism	Human Values
	Module IV: Hannah 4.2 Thoughts on Totalitarianism	Human Values

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Department of Sociology
Syllabus covering following values

B.A.I Sociology [Semester-I] June 2022 onwards based on NEP-2020

Paper No.-I, INTRODUCTION TO SOCIOLOGY



Sr. No.	Syllabus	Covering values	Remark
Module-I	Nature of Sociology A) Sociology: Meaning and Subject matter B) Brief outline of Development of Sociology: C) Importance of Sociology	Human Values	
Module II	Basic Concepts of Sociology A) Social Interaction: Meaning and Types B) Society: Meaning, Characteristics and Types	Human Values	
Module III	Social Institution A) Social Institution: Meaning, Characteristics B) Importance of Social institution C) Social Institution: and their functions [Family, Marriage, Religion, Education]	Gender Equality Human Values Sustainability	
Module IV	Social Groups: A) Social Groups: Meaning, Characteristics B) Basic Classification of Groups C) Primary and Secondary group	Human Values Environment and sustainability	



Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon
Department of Sociology
Syllabus covering following values

B.A.I Sociology [Semester-I] June 2022 onwards based on NEP-2020

Paper No.-I, PRINCIPLES OF SOCIOLOGY

Sr.No.	Syllabus	Covering values	Remark
Module - I	Culture: A) Culture: Meaning, Characteristics B) Elements of Culture: C) Importance of Culture	Gender Equality Human Values	
Module -II	Socialization A) Socialization: Meaning, Stages in the process of Socialization B) Agencies of Socialization C) Importance of Socialization	Professional Ethics Human Values Environment and sustainability	
Module - III	Social Control: A) Social Control: Meaning and Nature B) Functions of Social Control C) Types of Social Control	Gender Equality Human Values	
Module -IV	Social Change: A) Social Change: Meaning and Characteristics B) Factors of Social Change C) Obstacles of Social Change	Gender Equality Human Values Environment and sustainability	

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Department of Sociology

Syllabus covering following values

B.A.I Science, Technology and Development {STD} [Semester-I]

June 2022 onwards based on NEP-2020



Sr. No.	Syllabus	Covering values	Remark
Module-I	Introduction to Science and Technology A) Science and Technology: Definitions, Nature, Scope B) Fundamental Concepts in Scientific Thinking C) Stages in the Study of Science Observation, Experiment – D) Analysis Result and Hypothesis. E) Development of Science and Technology F) Impact on Science and Technology on Society	Human Values Environment and sustainability	
Module II	Eminent Scientists: Louis Pasteur Einstein Edison Dr. Homi Bhabha Dr. M.S. Swaminathan Dr. A.P.J Abdul Kalam	Human Values Environment and sustainability	

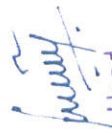
Module-III	Resources: Concept and Importance of Power Resources A) Classification Resource B) Non -Conventional Power Resources C) Solar Energy D) Wind Energy E) Nuclear Energy F) Bio Energy G) Geo-Thermal Energy H) Tidal Energy	Environment and sustainability	
Module-IV	Science, Technology and Human Health A. Impact of Science and Technology on Human Health B. Human Blood – Blood Groups Importance of Matching Blood Groups in Human Health C. AIDS – A Challenge before World Facts Figures Causes, Effects, Treatment, Social Outlook. D. Addiction a Social Problem, types, Causes Effects and Solution. E. Need of Cleanliness: “Swachh Bharat Abhiyan” (Clean India Mission)	Human Values Environment and sustainability	

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Department of Sociology
Syllabus covering following values
B.A.I Science, Technology and Development {STD} [Semester-II]
June 2022 onwards based on NEP-2020



Sr. No.	Syllabus	Covering values	Remark
Module I	Disaster Management 1.1 Types of Disaster 1.2 Earthquake 1.3 Flood 1.4 Drought 1.5 Fire 1.6 Accident 1.7 Crowd	Human Values Environment and sustainability	
Module II	Means of Communication and Information Technology 2.1 A Brief History of Communication 2.2 Origin Development and Importance of Computer 2.3 Computer Network 2.4 Internet 2.5 Computer Viruses 2.6 Information Technology	Human Values Environment and sustainability	
Module III	Science Technology in Spaces, Defense and Ocean Research 3.1 Artificial Satellite 3.2 Indian Space Research Organization 3.3 GIS and GNSS 3.4 Science and technology and National defense	Environment and Sustainability Human Values	

	3.5 Defense Research and Development Organization (DRDO) 3.6 Importance of Ocean Study 3.7 Indian Institute of Oceanography		
Module IV	Science and Technology in Agriculture 4.1 Importance to Agriculture 4.2 Modern tools and Technology in Agriculture 4.3 Fertilizer chemical and Bio Fertilizer 4.4 Issues and Challenges in Modern Agriculture 4.5 Sustainable Agriculture	Human Values Environment and Sustainability	

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Department of Sociology
Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.A. Part – II – DSC – D3, Semester - III, Paper No. III - Social Issues in India

Sociology Course - 3, June 2023 onwards



	Syllabus	Covering values	Remark
Model - I	Social Issues A) Nature of Social Issues B) Classification of Social Issues C) Need for study for Social Issues	Human Values	
Model - II	Socio-Cultural Issues A) Communalism: Meaning, Causes and Remedies A) Female -Foeticide : Meaning, Causes and Remedies	Human Values Gender Equality	
Model - III	Socio-Economic Issues A) Poverty: Meaning, Causes and Remedies B) Unemployment : Meaning and Remedies	Human Values Professional Ethics	
Model - IV	Socio-Legal Issues: A) Human Rights: History, Fundamental Rights India Constitution A) Cyber Crime: Meaning, Causes and Remedies	Human Values Gender Equality	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology
Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.A. Part - II - DSC - D4, Semester - III, Paper No. IV - Social Movement

Sociology Course - 4, June 2023 onwards



	Syllabus	Covering values	Remark
Model - I	Social Movement: A) Meaning and Characteristics of Social Movement B) Elements of Social Movements C) Importance of Social Movement.	Human Values Environment and sustainability	
Model - II	Peasant Movement A) Peasant Problems in India Major peasant Movement C) Impact of Peasant Movement	Human Values Environment and sustainability	
Model - III	Dalit Movement: A) Dalit Problems in India A) Major Dalit Movement. B) Impact of Dalit Movement	Gender Equality Human Values	
Model - IV	Tribal Movement A) Tribal Problems in India B) Major Tribal Movement C) Impact of Tribal Movement	Gender Equality Human Values Environment and sustainability	

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Department of Sociology
Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.A. Part - II - DSC - D31, Semester - IV, Paper No. V - Gender and Violence
Sociology Course - 5, June 2023 onwards



Sr. No.	Syllabus	Covering values	Remark
Module - I	Gender and Violence A) Meaning of Gender B) Nature of Gender Violence C) Major Gender Issues.	Gender Equality Human Values	
Module - II	Domestic Violence: A) Meaning of Domestic Violence B) Dowry: Causes and Remedies D) Divorce: Causes and Remedies	Gender Equality Human Values	
Module - III	Violence Against Women: A) Tribal Women: Nature and Remedies B) Rural Women: Nature and Remedies C) Urban Women: Nature and Remedies	Gender Equality Human Values	
Module - IV	Women's' Harassment at workplace A) Nature of Women's Harassment B) Types of Women's Harassment C) Remedies and Vishakha Guidelines Acts, 2013	Gender Equality Human Values	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology
Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.A. Part - II - DSC - D32, Semester - IV, Paper No.VI - Sociology of Health
Sociology Course - 6, June 2023 onwards



Model	Syllabus	Covering values	Remark
Model - I	Introduction to Sociology of Health A) Meaning and Nature of Sociology of Health B) Subject Matter of Sociology of Health C) Importance of Sociology of Health	Gender Equality Human Values	
Model - II	Major Diseases in India: A) Diabetes - Causes and Remedies B) Heart Diseases - Causes and Remedies C) Cancer - Causes and Remedies	Gender Equality Human Values Environment and sustainability	
Model - III	Lifestyle and Health: A) Traditional Lifestyle and Health A) Modern Lifestyle and Health B) Remedies on Health Problems	Gender Equality Human Values Environment and sustainability	
Model - IV	Health Policy in India: A) Health Policy for Children and Women, B) Health Policy for Old Age A) Health Policy for People Below Poverty Line (BPL)	Gender Equality Human Values Environment and sustainability	

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Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

B.A.-III SEMESTER-V, DSE- E66, SOCIOLOGY-VII

WESTERN SOCIOLOGICAL THINKERS (JUNE, 2020 ONWARDS)



Model	Syllabus	Covering values	Remark
Model - I	AUGUSTE COMTE A) Law of Three Stages B) Concept of Positivism. C) Social Statics and Social Dynamics	Professional Ethics Human Values	
Model - II	KARL MARX A) Dialectical Materialism B) Theory of Class Conflict C) Theory of Alienation	Professional Ethics Human Values Environment and sustainability	
Model - III	EMILE DURKHEIM A) The Study of Social Facts B) Theory of Division of Labour C) Theory of Suicide	Professional Ethics Human Values	
Model - IV	MAX WEBER A) The Ideal Type B) Theory of Social Action C) Types of Authority	Professional Ethics Human Values	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER – V, DSK – E67 SOCIOLOGY- VIII



METHODS OF SOCIAL RESEARCH (PART-I) (JUNE, 2020 ONWARDS)

Model	Syllabus	Covering values	Remark
Model – I	Introduction to social Research a. Philosophy of social science b. Meaning and objectives of social research c. Scientific Steps in Social Research d. Relation between theory and fact	Professional Ethics Human Values	
Model – II	Research Design a. Meaning and Nature of Research Design b. Explorative c. Descriptive d. Experimental	Professional Ethics Human Values	
Model – III	Basic Elements of Social Research a.) Concepts-meaning and characteristics b) Variable- meaning and Types c)Hypothesis- meaning and Sources	Human Values	
Model – IV	Modes of Enquiry a) Quantitative Research: meaning & characteristics b) Qualitative Research: meaning & characteristics C) Importance of Quantitative and Qualitative Research	Professional Ethics Human Values	

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Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER - V, DSE - K68 SOCIOLOGY - IX,

POLITICAL SOCIOLOGY (JUNE, 2020 ONWARDS)



	Syllabus	Covering values	Remark
Model - I	Nature of Political Sociology A) Definition and Subject Matter of Political Sociology B) Emergence of Political Sociology C) Importance of Political Sociology	Human Values Professional Ethics	
Model - II	Basic Concepts in Political Sociology A) Power: Meaning and Nature B) State: Meaning and Nature C) Civil Society: Meaning and Nature	Human Values Professional Ethics	
Model - III	Study of Perspectives to Political Sociology A) Perspectives on Power: Weberian, Marxist and Ambedkarian B) Perspectives on State: Liberal, Pluralist, Power-elite, post-modernist	Human Values Professional Ethics	
Model - IV	Political parties in India A) Political parties: characteristics & social composition. B) Pressure groups and Interest groups: characteristics and political significance. C) Major Political Parties and Their Principles	Human Values Professional Ethics	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER - V, DSE - E69 - SOCIOLOGY - X

HUMAN RIGHTS (JUNE, 2020 ONWARDS)



Model	Syllabus	Covering values	Remark
Model - I	HUMAN RIGHTS A) Meaning and Characteristics of Human Rights B) History of Human Rights in India (Ancient Period to After Independent Period) C) Perspectives of Human Rights...(Sociological Perspective and Modern Perspectives -JeromiJ. Shestoak)	Human Values Professional Ethics Gender Equality	
Model - II	UNITED NATIONS ORGANIZATIONS AND HUMAN RIGHTS A) Universal Declaration of Human Rights, 1948 B) International Covenant on Economic, Social and cultural Rights, 1966 C) International Covenant on civil and Political Rights, 1966	Human Values Professional Ethics Gender Equality	
Model - III	HUMAN RIGHTS IN INDIA A) Indian Constitutions and Human Rights B) National Human Rights Commission in India (Structure and Role) Function of National Scheduled Castes and Scheduled Tribe commission in India	Human Values Professional Ethics Gender Equality	
Model - IV	VIOLATION OF HUMAN RIGHTS IN INDIA A) Human Trafficking B) Mob Lynching and Honor Killing	Human Values Professional Ethics Gender Equality	



Department of Sociology
Syllabus covering following values
Choice Based Credit System (CBCSB)
SEMESTER – V, DSE – E70 SOCIOLOGY – XI
SOCIOLOGY OF RELIGION (JUNE, 2020 ONWARDS)

Model	Syllabus	Covering values	Remark
Model – I	Understanding Religion A) Sociology of Religion: Meaning, Scope and Subject matter B) Religion: Definition and Characteristics C) Basic Concepts in Religion 1) Belief and Rituals 2) The Sacred and Profane	Human Values Professional Ethics Gender Equality	
Model – II	Perspectives to Study of Religion A) Perspectives of Religion: Durkheim and Weber B) Perspectives of Religion in India: Mahatma Phule and Dr. B. R. Ambedkar	Human Values Professional Ethics Gender Equality	
Model – III	Religions in India A) Hinduism, Islam B) Buddhism, Christianity C) Jainism, Sikhism D) Satya Dharma and Shiv Dharma	Human Values Professional Ethics Gender Equality	
Model – IV	Religion and Social Change A) Socio-Religious Movements B) Religion and Violence C) Religion and Commercialization D) Secularism and National Integration	Human Values Professional Ethics Gender Equality	

Department of Sociology
Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER – VI, DSE – E191 SOCIOLOGY – XII

INDIAN SOCIOLOGICAL THINKERS (JUNE 2020 ONWARDS)



Model	Syllabus	Covering values	Remark
Model – I	G.S.GHURYE A. Ideas on National Unity and Interaction B. Study on Caste C. Study on Indian Tribes	Human Values Gender Equality	
Model – II	A.R. DESAI A) Study of Village Structure in India B) Study of Indian Nationalism C) Analysis of Indian Society through Marxist Perspective	Human Values Environment and sustainability Gender Equality	
Model – III	M. N. SRINIVAS A) Concept of Sanskritization B) Concept of Westernization C) Concept of Dominant Caste	Human Values Gender Equality	
Model – IV	IRAWATI KARVE A) Concept of Kinship Relations B) Hindu Culture: An Interpretation C) Views on Maharashtra	Human Values Gender Equality	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER – VI, DSE – E192, SOCIOLOGY – XIII



METHODS OF SOCIAL RESEARCH (JUNE, 2020 ONWARDS)

	Syllabus	Covering values	Remark
Model – I	Sampling and Data collection a. Meaning and Purpose of Sampling b. Types of sampling c. Advantages and Limitation of Sampling d. Primary and secondary Data collection	Professional Ethics Human Values	
Model – II	Observation a. Observation: Meaning and characteristics b. Types of Observation c. Advantages and limitations of observation	Professional Ethics Human Values	
Model – III	Interview and Questionnaire a. Interview-meaning and Types b. Advantages and limitations of interview c. Questionnaire- meaning and Types d. Advantages and limitations of Questionnaire	Human Values	
Model – IV	a. Data Analysis and Report Writing b. Use of computer in data analysis c. Statistical methods d. Report Writing	Professional Ethics Human Values	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER – VI, DSE – E193, SOCIOLOGY – XIV

SOCIAL ANTHROPOLOGY (JUNE, 2020 ONWARDS)



Model	Syllabus	Covering values	Remark
Model – I	INTRODUCTION TO SOCIAL ANTHROPOLOGY A) Social Anthropology: Meaning and Characteristics B) Relation Between Social Anthropology and Sociology C) Field work Method and its Characteristics D) Importance of Social Anthropology	Professional Ethics Human Values Environment and sustainability	
Model – II	TRIBAL SOCIETY IN INDIA A) Tribal Society: meaning and Characteristics B) Social life: Family, and Marriage -Characteristics C) Economic Life: Characteristics D) Religious Life: Beliefs and practices	Professional Ethics Human Values Environment and sustainability	
Model – III	TRIBAL PROBLEMS A) Poverty and Indebtedness B) Land Alienation C) Illiteracy and Exploitation D) Religious Crisis	Human Values Professional Ethics Environment and sustainability	
Model – IV	Tribal Community in Maharashtra: Pardhi A) Socio-Cultural life : Tradition and Change B) Economic life : Tradition and Change C) Religious life : Tradition and Change D) Social Movements for Development of Pardhi Community	Professional Ethics Human Values Environment and sustainability	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER - VI, DSE - E194, SOCIOLOGY - XV,

RURAL SOCIOLOGY (JUNE, 2020 ONWARDS)



	Syllabus	Covering values	Remark
Model - I	Introduction to Rural Sociology A) Meaning of Rural Sociology B) Origin: Scope and Subject Matter of Rural Sociology C) Importance of Rural Sociology with the reference of India	Human Values Environment and sustainability	
Model - II	Indian Rural Community A) Village studies in India B) Classification of Indian Villages C) Changing Nature of Rural Community in India	Human Values Environment and sustainability	
Model - III	Social Institutions in Rural Society A) Marriage, Family and kinship Institution B) Caste and Balutedari C) Political life: structure and change	Human Values Environment and sustainability	
Model - IV	Changing Indian Agrarian Society A) Rural Cooperative and Rural Industry B) Markets, Land Reforms and Green Revolution C) The Agrarian Issues	Human Values Environment and sustainability	

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon
Department of Sociology

Syllabus covering following values

Choice Based Credit System (CBCSB)

SEMESTER - VI, DSE - E195 SOCIOLOGY - XVI

URBAN SOCIOLOGY, (JUNE, 2020 ONWARDS)



Model	Syllabus	Covering values	Remark
Model - I	Introduction to Urban Sociology A) Definition, Meaning & Nature of Urban Sociology. B) Subject Matter of Urban Sociology. C) Importance of the Study of Urban Sociology	Human Values Environment and sustainability	
Model - II	Major Concepts in Urban Sociology A) Urban- Community. B) Urbanism C) Rural- Urban differences- continuum	Human Values Environment and sustainability	
Model - III	Process of Urbanization A) Meaning and Nature of Urbanization B) Causes of Urbanization. C) Consequences of Urbanization	Human Values Environment and sustainability	
Model - IV	Urban Social Structure. A) Urban Family: Characteristics and Change B) Urban Social stratification: Caste & Class. C) Urban Occupations: Characteristics and Change	Human Values Environment and sustainability	

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Head,
 Department of Sociology
 V Y College, Peth-Vadgaon, Kolhapur

New Syllabus Introduced from June 2022

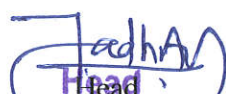
Class: B.A.I

Semester No: I & II

Title of the Paper: Indian Economy (Paper No: I & II)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Economic Development Since Independence	Sustainability Ethics
2.	Challenges before Indian Economy - I	Human Values & Gender Equality
3.	Challenges before Indian Economy - II	Human Values & Gender Equality
4.	Population in India	Gender Equality & Human Values
5.	Policies and Performance in Agriculture	Professional Ethics & Environment Ethics
6.	Policies and Performance in Industry	Professional Ethics & Sustainability Ethics
7.	Service Sector in India	Professional Ethics & Sustainability Ethics
8.	Economic Reforms	Professional Ethics

(Dr. R. H. Karamde)


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Shri. Vijaysinha Yadav College, Peth Vadgaon

Department of Economics

New Syllabus Introduced from June 2023

Class: B.A.II

Semester No: II & III

Title of the Paper: Macro Economics (Paper No: III & V)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Introduction to Macro Economics	Human Values
2.	National Income	Sustainability Ethics
3.	Money and Value of Money	Sustainability Ethics
4.	Output and Employment	Professional Ethics
5.	Inflation	Sustainability Ethics
6.	Trade Cycles	Professional Ethics
7.	Public Finance – I	Sustainability Ethics
8.	Public Finance – II	Sustainability Ethics

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New Syllabus Introduced from June 2023

Class: B.A.II

Semester No: II & III

Title of the Paper: Bank and Financial Institutions (Paper No: IV & VI)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Introduction to Banking	Sustainability Ethics
2.	Practical Banking	Professional & Sustainability Ethics
3.	Reserve Bank of India	Sustainability Ethics
4.	Banking Practices in India	Professional & Sustainability Ethics
5.	Financial System in India	Professional Ethics
6.	Indian Financial Institutions	Professional Ethics
7.	Banking Reform	Sustainability Ethics
8.	E-Banking Service	Professional Ethics

(Dr. R. H. Karamde)

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Department of Economics

New Syllabus Introduced from June 2020

Class: B.A.III

Semester No: V & VI

Title of the Paper: Principles of Micro Economics I & II (VII&XII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Consumer's Behaviour	Human and Professional Ethics
2.	Theory of Production	Professional Ethics
3.	Demand and Supply Analysis	Sustainability & Professional Ethics
	Theory of Production	Professional Ethics
4.	Perfect Competition	Professional Ethics
5.	Monopoly	Professional Ethics
6.	Imperfect Competition	Professional Ethics
7.	Factor Pricing	Human Values

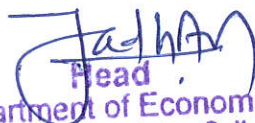
Class: B.A.III

Semester No: V & VI

Title of the Paper: Economics of Development (VIII) Economics of Planning (XIII)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Basic Concept of Economic Development	Sustainability & Environment Ethics
2.	Developing and developed countries	Sustainability
3.	Theories of economic development	Sustainability
4.	Resources for economic development	Human Values & Sustainability
5.	Introduction to economic planning	Professional Ethics
6.	Issues in economic planning	Professional Ethics & Sustainability
7.	Planning in India- I	Sustainability
8.	Planning in India- II	Sustainability

(Dr. R. H. Karande)


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Department of Economics

New Syllabus Introduced from June 2020

Class: B.A.III

Semester No: V & VI

Title of the Paper: International Economics (IX & XIV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Trade and Trade Theories	Professional Ethics
2.	Gains from International Trade	Professional Ethics
3.	Exchange Rate	Professional Ethics
4.	Tariffs and Quotas	Professional Ethics
5.	Balance of Trade and Balance of Payments	Professional Ethics
6.	Foreign Trade of India since 1991	Professional Ethics
7.	Foreign Capital in India	Professional Ethics
8.	International Institutions and India	Professional Ethics

Class: B.A.III

Semester No: V & VI

Title of the Paper: Research Methodology in Economics (X& XV)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Research design	Sustainability and Professional Ethics
2.	Hypothesis and concept	Sustainability and Professional Ethics
3.	Data collection	Sustainability and Professional Ethics
4.	Sampling	Sustainability and Professional Ethics
5.	Processing and representation of data	Sustainability and Professional Ethics
6.	Techniques of data analysis	Sustainability and Professional Ethics

(Dr. R.H. Kazeande)


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Department of Economics

New Syllabus Introduced from June 2020

Class: B.A.III

Semester No: V & VI

Title of the Paper: History of Economics Thought (XI & XVI)

Sr.No.	Topic in the Syllabus	Covered Ethics
1.	Origin of Economic Thoughts	Sustainability
2.	Classical Economic Thoughts	Human Values & Environment Ethics
3.	Economic Thoughts of Fredrick List	Sustainability
4.	Economic Thoughts of Karl Marx	Human Values & Sustainability
5.	Neo- Classical Economic Thought – Alfred Marshall	Human Values & Professional Ethics
6.	Indian Economic Thought	Professional Ethics & Sustainability
7.	Mahatma Gandhi	Human Values & Sustainability
8.	Economic Thoughts of Modern Indian Economist	Sustainability & Human Values

(Dr. R. H. Karande)


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Tal-Hatkanangale, Dist-Kolhapur.

Dept. of History - 2023-24

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Sr. No.	Class	Unit	Institution integrates crosscutting issues
1.	B.A. I		
1	Sem.-I Semester I, Paper I: Rise of the Maratha Power (1600-1707)	Module -1-Chhatrapati Shivaji Maharaja's achievement till 1664	Gender Ethics
		Module -2-Chhatrapati Shivaji Maharaja's achievement till 1680	Gender Ethics
		Module -3- Maratha War of Independence (1681-1707)	Professional Ethics
		Module- 4-Importance of Sources for understanding Maratha history	Professional Ethics
2	Semester II, Paper II: Polity, Society and Economy under the Marathas (1600-1707)	Module 1- Polity	Environment Ethics
		Module 2- Economy	Professional Ethics
		Module 3- Society and Religion	Environment
		Module 4-Chhatrapati Shivaji Maharaj: Policy and Contribution	Human Values
2.	B.A. II		
1	SEMESTER - III PAPER III- HISTORY OF MODERN MAHARASHTRA (1900 to 1960)	MODULE-1 Rise and Growth of Nationalism	Environment
		MODULE -2 Role of Maharashtra in the National Movement	Human Ethics
		MODULE -3 Social Movements	Professional Ethics
		MODULE -4 Samyukta Maharashtra Movement	Human Values
2	SEMESTER - III PAPER IV: HISTORY OF INDIA (1757-1857)	Module- 1 Establishment of Company rule in India	Gender Ethics
		Module -2 Making of a Colonial Policy	Professional Ethics
		Module -3 Making of a Colonial Economy	Gender Ethics
		Module -4 Revolts against Company Rule	Human Values
3	SEMESTER - III IDS PAPER I: SOCIAL REFORMS IN INDIA	MODULE-1 Socio-Religious Reform Movements	Human Values
		MODULE-2 Mahatma Phule	Environment
		MODULE-3 Rajashri Shahu Maharaj	Gender Ethics
		MODULE-4 Dr Babasaheb Ambedkar	Professional Ethics
4	SEMESTER - IV PAPER- V: HISTORY OF MODERN MAHARASHTRA (1960-2000)	MODULE -1 Leaders:	Professional Ethics
		MODULE -2 Major Issues and Events	Human Values
		MODULE -3 Social Movements	Human Values
		MODULE -4 Educational Development	Human Values
5	SEMESTER - IV PAPER VI: History of Freedom Struggle (1858-1947)	Module- 1 Rise of Nationalism	Environment
		Module -2 Gandhian Era	Professional Ethics
		Module -3 Other Strands	Professional Ethics
		Module -4 Communalism and Partition	Human Values
6	SEMESTER - IV IDS PAPER- II: SOCIAL REFORMS IN MAHARASHTRA	MODULE-1 Beginnings of Social Reform	Human Values
		MODULE -2 Women Reformers	Environment
		MODULE -3 Social Reformers	Professional Ethics
		MODULE -4 Educational Reforms	Professional Ethics
3.	B.A. III.		
1	Semester -V, Course VII, Paper VII : Early India (from beginning to 4th c. BC)	Module I: The Beginning	Human Values
		Module II: The Vedic Age and Epics	Environment
		Module III: The Second Urbanization	Gender Ethics
		Module IV: The Mauryan Empire	Human Values
2	Semester V, Course /Paper No: VIII History of Medieval India (1206-1526)	Module I - Sources:	Human Values
		Module II - Major Rulers	Professional Ethics
		Module III - Administration and Economy(Delhi Sultanate and Vijaynagar)	Professional Ethics
		Module IV) Religion, Society and Culture:	Human Values
3	Semester V, Course /Paper No: IX Age of Revolutions	Module I: Reformation (16th Century)	Human Values
		Module II: Industrial Revolution (18th Century)	Environment
		Module III: American Revolution (1776)	Gender Ethics
		Module IV: French Revolution (1789)	Professional Ethics
4	Semester V, Course/Paper No. X Political History of the Marathas	Module I: Political condition up to 1740	Professional Ethics
		Module II: Balaji Bajirao and Battle of Panipat(1761)	Gender Ethics
		Module: III Political condition after 1761	Human Values
		Module IV: Decline of the Maratha Power	Human Values
5	Semester V, Course	Module I: History: Definition and Scope	Environment

	Paper No. XI History: Its Theory	Module II: Acquisition of Historical Data Module III: Process of presenting and writing history Module IV: Methods of History writing	Gender Ethics Professional Ethics Professional Ethics
6	Semester VI, Course /Paper No. XII Ancient India (From 4th c. BC to 7th AD)	Module I: Early Historic India Module II: The Classical Age Module III: The Post-Gupta Period Module IV: Society and Culture	Professional Ethics Environment Gender Ethics Professional Ethics
7	Semester VI, Course/Paper No. XIII History of Medieval India (1526-1707 AD)	Module I: Sources Module II - Major Rulers Module III- Administration and Economy Module IV: Religion, Society and Culture	Professional Ethics Human Values Human Values Environment
8	Semester VI, Course /Paper No. XIV. Making of the Modern World (16th to 19th Century)	Module I: Glorious Revolution Module II: Nationalism Module III : Imperialism Module IV: important Personalities	Gender Ethics Professional Ethics Professional Ethics Human Values
9	Semester VI, Course /Paper No. XV Polity, Economy and Society under the Marathas	Module I: Sources Module II: Polity under the Marathas Module III: Economic condition Module IV: Social condition	Gender Ethics Professional Ethics Professional Ethics Human Values
10	Semester VI, Course No. XVI Methods and Applications of History	Module I: Archival Sources Module II: Recent Trends in History Module III: Museology Module IV -Understanding Heritage Tourism	Human Values Environment Professional Ethics Professional Ethics


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Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

DSC-3A- Chemistry paper I (Inorganic Chemistry)

2023-24

Sr. No.	Syllabus	Covering values
Unit I	Atomic Structure and Periodicity of Elements 1.1 Bohr's theory of hydrogen atom and its limitations 1.2 Wave particle duality 1.3 Heisenberg uncertainty principle 1.4 Quantum numbers and their significance 1.5 Shapes of s, p and d atomic orbitals 1.6 Electrons filling rules in various orbitals: a) Aufbau's principle b) Hund's rule of maximum multiplicity c) Pauli's exclusion principle 1.7 Electronic configuration of elements. Stability of empty, half-filled and completely filled orbitals 1.8 Periodicity of the elements	Scientific Values (Human Values)
Unit II	Unit II: P-Block Elements (Group 13, 14, 15) 2.1 Position of elements in periodic table. 2.2 Characteristics of group 13 th , 14 th and 15 th elements with special reference to electronic configuration and periodic properties. 2.3 Compounds of group 13 th , 14 th and 15 th elements. 2.3.1 Boron – Diborane (only structure). 2.3.2 Allotropes of Carbon and Phosphorus. 2.3.3 Oxyacids of Nitrogen (HNO ₂ , HNO ₃).	Scientific Values (Human Values)
Unit III	Chemical Bonding and Molecular Structure: Ionic Bonding 3.1 Types of Chemical Bonds: a) Ionic Bond b) Covalent Bond c) Co-ordinate bond d) Metallic bond e) Hydrogen Bond f) Van-der Waals force. 3.2 Definition and formation of ionic bond. General characteristics of ionic bonding 3.3 Energetic in Ionic bond formation. 3.4 Born-Haber cycle for NaCl and its applications. 3.5 Fajan's Rule and its applications.	Scientific Values (Human Values)
Unit IV	Acids and Bases 4.1 Theories of Acids and Bases – Arrhenius concept, Bronsted –Lowry concept, Lewis concept, Lux-Flood concept. (Definition and examples only). 4.2 Hard and Soft Acids and Bases (HSAB concept). (CO, NO) 4.2.1 Classification of Acids and Bases as hard soft and borderline. 4.2.2 Pearson's HSAB concept. 4.2.3 Applications and limitations of HSAB concept.	Scientific Values (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

DSC-4A- Chemistry paper II (Organic Chemistry)

2023-2024

Sr. No.	Syllabus	Covering values
Unit I	Fundamentals of Organic Chemistry Introduction, Curved arrow notations, Cleavage of Bonds: Homolysis and Heterolysis. Organic molecular species: Nucleophiles and electrophiles. Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation effect, Reactive Intermediates: Generation, Structure, Stability and Reactions of Carbocations, Carbanions and carbon free radicals.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit II	Stereochemistry Introduction, Types of Stereoisomerism, Optical Isomerism: Concept of Chirality. Elements of Symmetry, Optical Isomerism in tartaric acid, 2, 3 Dihydroxybutanoic acid, Enantiomerism, Diastereomerism and Meso compounds, Geometrical isomerism in C=C, C=N and alicyclic compounds. Nomenclature of stereoisomers: D and L, erythro and threo, R and S, E and Z.	Scientific Values (Human Values)
Unit III	Aromaticity Introduction, Characteristics properties of organic compounds, Meaning of terms: Aromatic, Non aromatic, Antiaromatic, Pseudoaromatic , Structure of Benzene: Kekule structure, Resonance structure, M.O. picture, Modern theory of Aromaticity, Mechanism of Electrophilic substitution reactions: Nitration, Sulphonation, Halogenation and Friedel-craft reaction.	Scientific Values (Human Values)
Unit IV	Heterocyclic Compounds Introduction, Classification and Nomenclature of heterocyclic compounds. Nitrogen Heterocycles: a) Pyrrole:- Introduction, Synthesis, Physical and chemical properties. b) Pyridine:- Introduction, Synthesis, Physical and chemical properties.	Scientific Values (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

B. Sc. I DSC 3B: Chemistry Paper III, Physical Chemistry 2023-2024

Sr. No.	Syllabus	Covering values
Unit I	Basic Mathematical Concepts 1.1 Logarithm: Basic rules and calculations. 1.2 Graph - Quadrants, drawing of linear graph, Slopes and Intercept. 1.3 Derivative and Integration: Basic rules.	Scientific Values (Human Values) Environment and sustainability
Unit II	Thermodynamics 2.1 Introduction, Basic terms used in thermodynamics, Zeroth law of thermodynamics. 2.2 First law of thermodynamics: Mathematical equation, sign conventions, statements of first law and its limitations. 2.3 Spontaneous and non-spontaneous processes, Second law of thermodynamics. 2.4 Heat engine, Carnot's Cycle and efficiency of heat engine. 2.5 Numerical Problems.	Scientific Values (Human Values) Environment and sustainability
Unit III	Chemical Kinetics 3.1 Introduction, rate of reaction, definition, and units of rate constant. 3.2 Factors affecting rate of reaction. 3.3 Order and Molecularity of reaction. 3.4 First order reaction: Derivation of rate constant. Characteristics of the first order reaction. 3.5 Pseudo- first order reactions –i) Hydrolysis of methyl acetate in presence of acid, ii) Inversion of cane sugar. 3.6 Second order reaction: Derivation of rate constant for equal and unequal concentration of the reactants. 3.7 Examples of Second order reaction: i) Reaction between $K_2S_2O_8$ and KI and ii) Saponification of ethyl acetate. 3.8 Characteristics of Second order reactions. 3.9 Numerical problems.	Scientific Values (Human Values) Environment and sustainability
Unit IV	Physical properties of liquids 4.1 Introduction to states of matter, qualitative description of intermolecular forces in liquids, structure of liquids, classification of physical properties. 4.2 Surface tension and its determination using stalagmometer and differential rise method. 4.3 Viscosity and its determination using Ostwald's viscometer. 4.4 Refractive index (Snell's law) specific and molecular refractivities and its determination using Abbe's refractometer. 4.5 Numerical Problems.	Scientific Values (Human Values) Environment and sustainability

Unit V	Electrochemistry 5.1 Introduction, types of cell, phenomenon of electrolysis, Faradays Laws of electrolysis. 5.2 Types of conductors. 5.3 Explanations of Conductance, specific conductance, equivalence and molecular conductance. 5.4 Variation of specific conductance, equivalence and molecular conductance with dilution, equivalent conductance at infinite dilution. 5.5 Dipping type of conductivity cell, modifications in the technique used before measurement of conductance w.r.to use of alternating current, use of conductivity water, conductivity cell and temperature control. 5.6 Measurement of conductance by Wheatstone bridge. 5.7 Cell constant and its determination. 5.8 Numerical problems.	
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Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

B. Sc. I DSC 4B: Chemistry Paper IV, Analytical Chemistry 2022-2023

Sr. No.	Syllabus	Covering values
Unit I	Introduction to analytical Chemistry 1.1 Introduction 1.2 Importance of analysis 1.3 Analytical processes (Qualitative and Quantitative) 1.4 Methods of analysis (Only classification) 1.5 Sampling of solids, liquids and gases 1.6 Errors, types of errors (determinate and indeterminate), methods of expressing accuracy (Absolute and relative error) 1.7 Significant figures, mean, median, standard deviation (Numerical problems expected)	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit II	Fundamentals of Industrial Chemistry and IPR 2.1 Difference between classical and industrial chemistry, Raw materials for chemical industry, Material safety data sheets (MSDS) 2.2 Definition and Explanation of terms - Molecular weight, Equivalent weight, Molarity, Normality, Molality, Molarity of mixed solution, Acidity of base, Basicity of acid, ppt, ppm, ppb solutions, Mole Fraction, Weight fraction, Percentage composition by W/W, W/V, V/V, Problems based on Normality, Molarity, mole fraction, mixed solution, etc. 2.3 IPR- Introduction to IPR and its significance in presence scenario.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Unit III	Chromatography 3.1 Introduction, Basic Principle of Chromatography, Basic terms, Classification of Chromatography 3.2 Paper Chromatography- Principle, Methodology-types of papers and treatment, sample loading, choice of solvent, development-ascending, descending, circular, location of spots, determination of R _f value, Applications, advantages and disadvantages 3.3 Thin layer chromatography- Principle, Solvent system, stationary phases, preparation of TLC plate, Detecting reagents, methodology-sample loading, development, detection of spot, R _f value, Applications, advantages and disadvantages	Environment and sustainability Scientific Values, Professional Ethics (Human Values)
Unit IV	Theory of Titrimetric Analysis 4.1 Introduction 4.2 Acid-base indicators 4.3 Theory of indicators w.r.t. Ostwald's ionization theory 4.4 Neutralization curves and choice of indicators 4.5 Complexometric titrations 4.6 Redox Titrations 4.7 Precipitation Titrations	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.Sc. Part – II, DSC C3 Paper V Physical Chemistry

	Syllabus	Covering values
Unit I	Electrolytic Conductivity 1.1 Introduction, Migration of ions. 1.2 Hittorf's rule, Transference number, determination of transport number using Hittorf's method and moving boundary method, factors affecting transport number: nature of electrolyte, concentration, temperature, complex formation and degree of hydration. 1.3 Kohlrausch law of independent migration of ions and its applications such as relations between ionic conductance, ionic mobility and transport number, determination of equivalent conductance at infinite dilution of weak electrolytes, determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts. 1.4 Conductometric titrations (only acid -base titrations with mixture of strong and weak acid). Advantages of conductometric titrations. 1.5 Numerical problems.	Scientific Values, (Human Values)

Unit II	Thermodynamics 2.1 Introduction, Concept of Entropy: Definition, mathematical expression, unit. 2.2 Physical significance of Entropy. 2.3 Entropy changes for reversible and irreversible processes in isolated systems. 2.4 Entropy changes for an ideal gas as a function of V & T and as function of P & T. 2.5 Entropy change in mixing of gases. 2.6 Entropy change in phase transformations. 2.7 Third law of thermodynamics, standard entropy, application of third law of thermodynamics in determination of absolute entropy, Entropy changes in chemical reactions 2.8 Numerical problems.	Scientific Values, (Human Values)
Unit III	Unit 3: Chemical kinetics (4 hours) 3.1 Introduction. 3.2 Third order reactions: derivation of rate constant considering reaction with Equal initial concentration, characteristics, and examples of third order reaction. 3.3 Determination of order of reaction by: i) Integration method, ii) Graphical method and iii) Half-life method. 3.4 Effect of temperature on rate of reaction, Arrhenius equation. Concept of energy of activation. 3.5 Numerical problems.	Scientific Values, (Human Values)
Unit IV	Unit 4: States of Matter (8 hours) 4.1 Introduction, States of matter and their properties. A) Gaseous state: 4.2 Postulates of Kinetic Theory of Gases and derivation of the kinetic gas equation. 4.3 Ideal and Non ideal gases, Deviation of real gases from ideal behavior, compressibility factor, causes of deviation. 4.4 Van der Waals equation of state for real gases. Explanation of real gas behavior by Van der Waal's equation, Boyle temperature (derivation not required). 4.5 Critical Phenomena: PV-isotherms of real gases (Andrew's isotherms), Continuity of state, Critical constants and their calculation from Vander Waals equation. B) Liquid state: 4.6 Liquid crystals: Difference between liquid crystal, solid and liquid. 4.7 Classification, structure of nematic, smectic and cholestric liquid crystal. 4.8 Thermography and seven segment cell. 4.9 Numerical Problems.	Scientific Values, (Human Values) Environment and sustainability
Unit V	Unit 5: Surface Chemistry (6 hours) 5.1 Introduction, Adsorption as a surface phenomenon, Definition of adsorption, adsorbent, adsorbate. Characteristics of adsorption. 5.2 Factors affecting adsorption, Types of adsorption, Distinction between physical and chemical adsorption, 5.3 Adsorption isotherms: Freundlich adsorption isotherm,	Scientific Values (Human Values) Environment and sustainability

	Langmuir adsorption isotherm. BET equation. 5.4 Applications of adsorption.	
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Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC)

Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.Sc. Part – II, DSC C4 Paper VI Industrial Chemistry

Sr. No.	Syllabus	Covering values
Unit I	Unit I Gravimetric Analysis [6 hours] Introduction, Gravimetric analysis by precipitation: nucleation, crystal growth, digestion/ageing, filtration, drying, ignition, weighing, optimum condition for good precipitation, Physical nature of precipitate, Purity of precipitate: co-precipitation, post-precipitation Organic precipitates and their applications.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit II	Unit II Water Analysis [4 hours] Physical analysis of water: pH, Conductance, Color, Odor, Turbidity and taste, Chemical Analysis Total dissolved solids, Hardness and its determination, Salinity, Alkalinity, Acidity Sulphates, Nitrates, Dissolved oxygen, Chemical oxygen demand, Biological oxygen demand.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit III	Unit III Corrosion and electroplating [6 hours] A) Corrosion -Introduction of corrosion, Electrochemical theory of corrosion, Factors affecting on corrosion -i. Position of metals in the electrochemical series on the basis of standard reduction potential ii. Purity of metal iii. Effect of moisture iv. Effect of oxygen (differential aeration principle) v. Hydrogen overvoltage, Methods of protections of metals from corrosion alloy formation, making metal cathodic, controlling external condition. Coating-galvanising, Tinning, electroplating, metal cladding, organic coating. B) Electroplating: Electrolysis, Faraday's laws, Cathode current Efficiency, Basic principles of electroplating, cleaning of articles. Electroplating of chromium, Anodising	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit IV	Unit IV. Chromatographic techniques [7 hours] Introduction, classification. Column chromatography: Introduction, types, Principle of adsorption column chromatography, solvent system, stationary phases, Methodology-Column packing, applications of sample, development, detection methods, recovery of components, Applications. Ion exchange chromatography: Introduction, Principle, Types and properties of ion exchangers, Methodology-Column packing, application of sample, elution, detection/analysis, Applications.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit V	Unit V. Petroleum industry, biofuels and IPR [7 hours] A] Petroleum industry Introduction, occurrence,	Scientific Values, Professional Ethics (Human Values)

	composition of petroleum, resources, processing of petroleum, calorific value of fuel, cracking, octane rating (octane number), cetane number, flash point, petroleum refineries, applications of petrochemicals, synthetic petroleum, lubricating oils & additives. B] Biofuels: Biodiesel, Bio-ethanol C] IPR- Introduction to copyright and Trademark	Environment and sustainability
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Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon
Department of Chemistry
Criterion-01 (NAAC)
Syllabus covering following values
SYLLABUS - Choice Based Credit System
B.Sc. Part – II, DSC D3 Paper VII Inorganic Chemistry

Sr. No.	Syllabus	Covering values
Unit I	Co-ordination chemistry 1.1 Introduction-Definition and formation of co-ordinate covalent bond in $\text{BF}_3 - \text{NH}_3$, $[\text{NH}_4]^+$ and H_2O 1.2 Distinguish between double salt and complex salt 1.3 Werner's theory- 1.3.1. Postulates 1.3.2. The theory as applied to cobalt amines viz. $\text{CoCl}_3.6\text{NH}_3$, $\text{CoCl}_3.5\text{NH}_3$, $\text{CoCl}_3.4\text{NH}_3$, $\text{CoCl}_3.3\text{NH}_3$ 1.4 Description of the terms- ligand, co-ordination number, co-ordination sphere, Effective atomic number 1.5 IUPAC nomenclature of coordination compounds. 1.6 Isomerism in complexes with C.N. 4 and 6 1.6.1 Geometrical Isomerism 1.6.2 Optical Isomerism 1.6.3 Structural Isomerism-Ionisation Isomerism, Hydrate Isomerism, Coordination Isomerism, Linkage Isomerism and Co-ordination position Isomerism 1.7 Valance bond theory of transition metal complex with respect to, C.N. 4, complexes of Cu and Ni C.N. 6 complexes of Fe and Co. 1.8 Valance bond theory of transition metal complexes with respect to, C.N. = 4, complexes of Cu and Ni, C.N. = 6 complexes of Fe and Co	Scientific Values (Human Values)
Unit II	Chelation (05) 2.1 A brief introduction with respect to ligands, chelating agent, chelation and metal chelates. 2.2 Structural requirements of chelate formation 2.3 Difference between metal chelate and metal complex 2.4 Classification of chelating agents (with specific illustration of bidentate chelating agents) 2.5 Application of chelation with respect to chelating agents - EDTA and DMG	Scientific Values (Human Values)

Unit III	Unit 3: Chemistry of Elements of 3d Series Elements (6 hours) 3.1 Position of elements in periodic table 3.2 Characteristics of d-block elements with special reference to i) Electronic structure ii) Oxidation states, stability of oxidation states of Fe with respect to Latimer diagram iii) Magnetic character iv) Colored ions v) Complex formation.	Scientific Values (Human Values)
Unit IV	Unit-4. Chemistry of 4f Elements (Lanthanides) (5 hours) 4.1 Position of lanthanides in periodic table 4.2 Occurrence 4.3 Characteristics of 4f elements with special reference to 4.3.1 Electronic configuration 4.3.2 Oxidation states 4.3.3 Magnetic properties 4.3.4 Lanthanide contraction 4.4 Separation of lanthanides by ion exchange method.	Scientific Values (Human Values)
Unit V	Inorganic semi-micro qualitative analysis (08) 5.1 Theoretical principles involved in qualitative analysis. 5.2 Applications of solubility product and common ion effect in separation of cations into groups. 5.3 Application of complex formation in a) Separation of II group into IIA and IIB sub-groups. b) Separation of Copper from Cadmium. c) Separation of Cobalt from Nickel. d) Separation of Cl ⁻ , Br ⁻ , I ⁻ . e) Detection of NO ₂ ⁻ , NO ₃ ⁻ (Brown ring test). 5.4 Application of oxidation and reduction in a) Separation of Cl ⁻ , Br ⁻ , I ⁻ in mixture b) Separation of NO ₂ ⁻ and NO ₃ ⁻ in mixture. 5.5 Spot test analysis.	Scientific Values (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC), Syllabus covering following values

SYLLABUS - Choice Based Credit System

B.Sc. Part – II, DSC D4 Paper VIII Organic Chemistry

	Syllabus	Covering values
Chapter I	Carboxylic acids and their derivatives. 1.1 Monocarboxylic acid: 1.2 Formation of Halo Acids, Mono, Di, Tri- chloro acetic acid. Substitution reaction of Monochloro acetic acid by Nucleophile OH ⁻ , I ⁻ , CN ⁻ and NH ₃ 1.3 Hydroxy acids: Malic and Citric acid 1.4 Unsaturated acid:	Scientific Values (Human Values)

	1.5 Dicarboxylic acid: Succinic and phthalic acid 1.6 Carboxylic acid derivatives	
Chapter II	Amines and Diazonium Salts 2.1 Introduction, Classification, Nomenclature, structure. 2.2 Methods of preparation: a) From Alkyl halide by Amonolysis, b) By Reduction of Nitriles or Cyanides, c) From Unsubstituted amides (Hoffmann degradation), d) By Gabriel Synthesis (From Phthalamide). 2.3 Reactions: Carbylamine reaction, Schotten-Baumann reaction, Electrophilic substitution (Aniline), Nitration, Bromination, Sulphonation. 2.4 Diazonium salt: Introduction, Preparation of Benzene diazonium chloride. 2.5 Reactions: Replacement by Halogen(Sandmeyer), Replacement by Iodine, Replacement by -OH, C and N Coupling reactions: Synthesis of Methyl orange and Congo red.Reduction of BDC.	Scientific Values (Human Values)
Chapter III	Carbohydrates Classification of carbohydrates, reducing and non-reducing sugars, General properties of glucose and fructose, their open chain structure. Epimers, mutarotation and anomers. Determination of configuration of Glucose (Fischer proof). Ring structure of glucose Determination of size of the ring of Glucose by methylation method..Haworth projections.Cyclic structure of fructose.Linkage between monosachharides, structure of disacharrides (sucrose, maltose, lactose) andpolysacharrides (starch and cellulose) excluding their structure elucidation.	Scientific Values (Human Values) Environment and sustainability
Chapter IV	Carbonyl Compounds- Aldehydes and Ketone 4.1 Introduction, Nomenclature, structure. 4.2 Reactivity of Carbonyl group, mechanism of Nucleophilic addition to Carbonyl group 4.3 Reactions: mechanism and application of Aldol condensation, Perkin reaction, Cannizaros reaction, Knoevenagel condensation, Reformatsky reaction.	Scientific Values (Human Values)
Chapter V	Stereochemistry 5.1 Conformational isomerism – Introduction. 5.2 Representation of conformations of ethane by using Saw- Horse, Fischer (dotted line wedge) and Newmann's projection formulae. 5.3 Conformations and conformational analysis of ethane and n-butane by Newmann's Projection formula with the help of energy profile diagrams. 5.4 Cycloalkanes relative stability - Baeyer's strain theory, Theory of strainless rings. 5.5 Conformations and stability of cyclohexane and monosubstituted cyclohexanes Cyclohexanol, bromocyclohexane and methyl cyclohexane. 5.6 Locking of conformation in t-butyl cyclohexane.	Scientific Values (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon
Department of Chemistry
Criterion-01 (NAAC), Syllabus covering following values
SYLLABUS - Choice Based Credit System
B.Sc. III, Paper No. DSE-E5, Chemistry Paper No. –IX (Inorganic Chemistry)

	Syllabus	Covering values
Unit I	<p>Acids, Bases and Non aqueous Solvents</p> <p>1.1 Introduction to theories of Acids and Bases-Arrhenius concept, Bronsted-Lowry concept, Lewis Concept, Lux-Flood Concept (definition and examples)</p> <p>1.2 Hard and Soft Acids and Bases. (HSAB Concept)</p> <p>1.2.1 Classification of acids and bases as hard, soft and borderline.</p> <p>1.2.2 Pearson's HSAB concept.</p> <p>1.2.3 Acid-Base strength and hardness-softness.</p> <p>1.2.4 Applications and limitations of HSAB principle.</p> <p>1.3 Chemistry of Non aqueous Solvents.</p> <p>1.3.1 Introduction, definition and characteristics of solvents.</p> <p>1.3.2 Classification of solvents.</p> <p>1.3.3 Physical properties and Acid-Base reactions in Liquid Ammonia (NH₃) and Liquid Sulphur Dioxide (SO₂).</p>	<p>Scientific Values,</p> <p>Professional Ethics (Human Values)</p> <p>Environment and sustainability</p>
Unit II	<p>Metal Ligand bonding in Transition Metal Complexes</p> <p>2.1 Crystal field theory (CFT)</p> <p>2.1.1 Introduction: Shapes of d-orbitals, Basic assumptions of CFT.</p> <p>2.1.2 Crystal field splitting of d-orbitals of metal ion in octahedral, tetrahedral, squareplanar complexes and John-Teller distortion.</p> <p>2.1.3 Factors affecting the Crystal field splitting.</p> <p>2.1.4 High spin and low spin octahedral complexes w.r.t. Co (II).</p> <p>2.1.5 Crystal Field stabilization energy (CFSE), Calculation with respect to octahedral complexes only.</p> <p>2.1.6 Limitations of CFT.</p> <p>2.2 Molecular orbital theory (MOT).</p> <p>2.2.1 Introduction.</p> <p>2.2.2 MOT of octahedral complexes with sigma bonding such as [Ti(H₂O)₆]³⁺, [CoF₆]³⁻, [Co(NH₃)₆]³⁺.</p> <p>2.2.3 Merits and demerits of MOT.</p>	<p>Scientific Values,</p> <p>Professional Ethics (Human Values)</p> <p>Environment and sustainability</p>
Unit III	<p>Metals, Semiconductors and Superconductors</p> <p>3.1 Introduction.</p> <p>3.2 Properties of metallic solids.</p> <p>3.3 Theories of bonding in metal.</p> <p>i. Free electron theory.</p> <p>ii. Molecular orbital theory (Band theory).</p> <p>3.4 Classification of solids as conductor, insulators and semiconductors on the basis of band theory.</p> <p>3.5 Semiconductors- Types - intrinsic and extrinsic and applications of semiconductors.</p> <p>3.6 Superconductors: Ceramic superconductors - Preparation and structures of mixed oxide YBa₂Cu₃O_{7-x}.</p> <p>3.7 Applications of superconductors.</p>	<p>Scientific Values,</p> <p>Professional Ethics (Human Values)</p> <p>Environment and sustainability</p>

Unit II	Spectroscopy 2.1 Introduction. 2.2 Electromagnetic radiation. 2.3 Interaction of radiation with matter, Electromagnetic spectrum, Energy level diagram. 2.4 Rotational spectra of diatomic molecules: Rigid rotor model, moment of inertia, energy levels of rigid rotor, selection rules, Intensity of spectral lines, determination of bond length, isotope effect. Microwave oven	Scientific Values, Professional Ethics (Human Values)
Unit III	Photochemistry 3.1 Introduction, Difference between thermal and photochemical processes. 3.2 Laws of photochemistry: i) Grotthus - Draper law ii) Lambert law iii) Lambert – Beer's law (with derivation) iv) Stark-Einstein law.	Scientific Values, (Human Values)
Unit IV	Solutions 4.1 Introduction. 4.2 Ideal solutions, Raoult's law, Vapour pressure of ideal and non ideal solutions of miscible liquids. 4.3 Composition of liquid and vapour, vapour pressure and boiling point diagrams of miscible liquids. Distillation of miscible liquid pairs. Type I : Systems with intermediate total vapour pressure (i.e. System in which b.p. increases regularly – Zeotropic). Type II : Systems with a maximum in the total vapour pressure (i.e. System with a b.p. minimum – Azeotropic). Type III : Systems with a minimum in the total vapour pressure (i.e. System with a b.p. Maximum – Azeotropic). 4.4 Solubility of partially miscible liquids.	Scientific Values (Human Values)
Unit V	Electromotive force (Convention: Reduction potentials to be used) 5.1 Introduction 5.2 Thermodynamics of electrode potentials, Nernst equation for electrode and cell potentials in terms of activities. 5.3 E.M.F. series. 5.4 Types of electrodes:	Scientific Values (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC), Syllabus covering following values

Choice Based Credit System (CBCSB)

B.Sc. III, Paper No. DSE-E8, Chemistry Paper No. –XII (Analytical Chemistry)

	Syllabus	Covering values
Unit 1	Theory of Gravimetric Analysis 1.1 Introduction. 1.2 Gravimetric analysis by precipitation: nucleation, crystal growth, digestion/ageing, filtration, drying, ignition, weighing. 1.3 Optimum conditions for good precipitation. 1.4 Physical nature of precipitate.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Unit IV	Organometallic Chemistry 4.1 Definition, Nomenclature of organometallic compounds. 4.2 Synthesis and structural study of alkyl and aryl compounds of Be and Al. 4.3 Mononuclear carbonyls -Nature of bonding in simple mononuclear carbonyls.: [Ni(CO) ₄], [Fe(CO) ₅], [Cr(CO) ₆].	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit V	5. Catalysis 5.1 Introduction 5.2 Classification of catalytic reaction- Homogenous and Heterogeneous 5.3 Types of Catalysis. 5.4 Characteristics of catalytic reactions. 5.5 Mechanism of catalysis. i. Intermediate compound formation theory. ii. Adsorption theory. 5.6 Industrial applications of catalysis.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC), Syllabus covering following values

Choice Based Credit System (CBCS)

B.Sc. III, Paper No. DSE-E6, Chemistry Paper No. -X (Organic Chemistry)

	Syllabus	Covering values
Unit I	Introduction to Spectroscopy 1.1 Meaning of spectroscopy. 1.2 Nature of electromagnetic radiation: wavelength, frequency, energy, amplitude, wave number and their relationship. 1.3 Different units of measurement of wavelength and frequency. 1.4 Different regions of electromagnetic radiations. 1.5 Interaction of radiation with matter: absorption, emission, fluorescence and scattering. 1.6 Types of spectroscopy and advantages of spectroscopic methods. 1.7 Energy types and energy levels of atoms and molecules.	Scientific Values, Professional Ethics (Human Values)
Unit II	UV-Vis Spectroscopy 2.1 Introduction. 2.2 Beer-Lambert's law, absorption of UV radiation by organic molecules leading to different excitations. 2.3 Terms used in UV Spectroscopy: Chromophore, Auxochrome, Bathochromic shift, hypsochromic shift, hyperchromic and hypochromic effect. 2.4 Modes of electromagnetic transitions. 2.5 Effect of conjugation on position of UV band. 2.6 Calculation of λ_{max} by Woodward and Fischer rules for dienes and enones. 2.7 Colour and visible spectrum. 2.8 Applications of UV Spectroscopy.	Scientific Values, Professional Ethics (Human Values)
Unit III	IR Spectroscopy 3.1 Introduction. 3.2 Principles of IR Spectroscopy. 3.3 Instrumentation, schematic diagram.	Scientific Values, Professional Ethics (Human Values)

	3.4 Fundamental modes of vibrations, types and calculation. 3.5 Conditions for absorption of IR radiations. 3.6 Regions of IR spectrum, fundamental group region, finger print region. 3.7 Hook's Law for Calculation of vibrational frequency. 3.8 Factors affecting IR absorption frequency.	
Unit IV	NMR Spectroscopy 4.1 Introduction. 4.2 Principles of PMR Spectroscopy. 4.3 NMR- Instrumentation, Schematic diagram. 4.4 Magnetic and nonmagnetic nuclei. 4.5 Chemical shift: definition, measurement, calculation, Factors affecting Chemical shift. 4.6 Shielding & deshielding. 4.7 Peak Integration. 4.8 Merits of TMS as PMR reference compound. 4.9 Coupling Constant. 4.10 Types of Coupling Constant. 4.11 Spin-spin splitting (n+1 rule). 4.12 Applications.	Scientific Values, Professional Ethics (Human Values)
Unit V	Mass Spectroscopy. 5.1 Introduction. 5.2 Principles of mass spectroscopy. 5.3 Mass spectrometer - schematic diagram. 5.4 Types of ions produced during fragmentation. 5.5 Nitrogen rule 5.6 Fragmentation patterns of: alkanes, alkenes, aromatic hydrocarbons, alcohols, phenols, amines and carbonyl compounds. 5.7 McLafferty rearrangement. 5.8 Applications.	Scientific Values, Professional Ethics (Human Values)

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon
Department of Sociology

Criterion-01 (NAAC), Syllabus covering following values
Choice Based Credit System (CBCSB)

B.Sc. III, Paper No. DSE-E7, Chemistry Paper No. –XI (Physical Chemistry)

	Syllabus	Covering values
Unit 1	Elementary quantum mechanics 1.1 Introduction. 1.2 Drawbacks of classical mechanics, Black body radiation, Photoelectric effect, Compton effect, Dual nature of matter and energy: De Broglie hypothesis. 1.3 The Heisenberg's uncertainty principle. 1.4 Concept of energy operators (Hamiltonian). 1.5 Derivation of Schrodinger wave equation, well behaved function. 1.6 Physical interpretation of the ψ and ψ^2 . 1.7 Particle in a one dimensional box. 1.8 Numerical problems.	Scientific Values, (Human Values)

	1.5 Purity of precipitate: co-precipitation, post-precipitation. 1.6 Organic precipitants and their applications.	
Unit II	Flame Photometry 2.1 Introduction. 2.2 General principles of flame photometry. 2.3 Instrumentation: Block diagram, Burners (Premix and Lundergraph burners), mirror, slits, filters, detector (Photomultiplier tube). 2.4 Effect of solvent in flame photometry.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit III	Colorimetry and Spectrophotometry 3.1 Theory of colorimetry and spectrophotometry. 3.2 Lambert Beer's law, deviation from Beer's law. 3.3 Terms used in colorimetry and spectrophotometry. 3.4 Classification of methods of 'colour' measurement or comparison. 3.5 Photoelectric colorimeter method–Single beam photo-electric colorimeter. 3.6 Spectrophotometer method–Single beam direct reading spectrophotometer. 3.7 Determination of unknown concentration by using concentration-absorbance plot. 3.8 Applications of colorimetry and spectrophotometry.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit IV	Potentiometric titrations 4.1 Introduction. 4.2 Determination of pH. 4.3 Study of Quinhydrone and Glass electrodes and their use in determination of pH. 4.4 Potentiometric titrations: Classical and analytical methods for locating end points. 4.5 Acids- Bases titration with suitable example. 4.6 Redox titration with suitable example. 4.7 Precipitation titration with suitable example. 4.8 Basic circuit of direct reading potentiometer. 4.9 Advantages of potentiometric titrations.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit V	Chromatographic techniques and Quality control 5.1 Introduction, classification. 5.2 Column chromatography 5.3 Ion exchange chromatography 5.4 Concepts in Quality control	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry

Criterion-01 (NAAC), Syllabus covering following values

Choice Based Credit System (CBCSB)

B.Sc. III, Paper No. DSE-F5, Chemistry Paper No. –XIII (Inorganic Chemistry)

	Syllabus	Covering values
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Unit I	Inorganic Reaction mechanism 1.1 Introduction. 1.2 Classification of Mechanism: Association, dissociation, interchange and the rate determining steps. 1.3 SN1 and SN2 reactions for inert and labile complexes. 1.4 Mechanism of substitution in cobalt (III) octahedral complexes. 1.5 Trans effect and its theories. 1.6 Applications of trans effect in synthesis of Pt (II) complexes.	Scientific Values (Human Values)
Unit II	Nuclear Chemistry 2.1 Nuclear reactions and energetic of nuclear reactions. 2.2 Types of nuclear reactions 2.3 Use of Thorium, Uranium and Plutonium in atomic energy 2.4 Applications of radio-isotopes as tracers. iv. Age determination – Dating by C14.	Scientific Values (Human Values)
Unit III	Chemistry of f- Block Elements A] Lanthanides B] Actinides	Scientific Values (Human Values)
Unit IV	Iron and Steel. 4.1 Occurrence and ores of iron. 4.2 Definition of the Terms- Ore , Mineral, Slag, Flux, Gangue , Matrix, Calcinations, Reduction, Roasting, Smelting and Leaching. 4.3 Extraction of iron by Blast furnace. 4.4 Steel: Definition and types. 4.5 Conversion of cast iron into steel by i. Bessemer process. ii. L.D. process. 4.6 Heat treatment on steel.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit V	Unit 5. Bio-inorganic Chemistry. 5.1 Introduction. 5.2 Essential and trace elements in biological process. 5.3 Metalloporphyrins with special reference to hemoglobin and myoglobin. 5.4 Biological role of alkali and alkaline earth metal ions with special referenc to Na ⁺ , K ⁺ A)and Ca ²⁺	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Department of Chemistry
Criterion-01 (NAAC), Syllabus covering following values
Choice Based Credit System (CBCSB)
B.Sc. III, Paper No. DSE-F6, Chemistry Paper No. –XIV (Organic Chemistry)

	Syllabus	Covering values
Unit I	Reagents and Reactions in Organic Synthesis [10] A] Reagents Preparation and Applications of reagents. B] Reactions Statement, General Reaction, Mechanism and Synthetic applications	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Unit II	Retrosynthesis 2.1 Introduction. 2.2 Recapitulation of basics of reaction mechanism and reagents. 2.3 Terms used- Target molecule (TM), Disconnection, Synthons, Synthetic equivalence, Functional group interconversion (FGI), one group disconnection (w. r. t. suitable examples). 2.4 Retrosynthetic analysis and synthesis of target molecules: Cinnamaldehyde, Cyclohexene, para methoxy acetophenone, Methyl-3-phenyl propionate, α,α -dimethyl benzyl alcohol, Paracetamol.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit III	Electrophilic addition to $>C=C<$ and $-C\equiv C-$ bonds [08] A. Addition to Carbon-Carbon double ($>C=C<$) bond: B. Addition to Carbon-Carbon triple ($-C\equiv C-$) bond	Scientific Values (Human Values)
Unit IV	Natural Products A] Terpenoids B] Alkaloids	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit V	Pharmaceuticals 5.1 Introductio. 5.2 Classification. 5.3 Qualities of ideal drug. 5.4 Synthesis and uses of ethambutal, phenobarbitone, isoniazide, benzocaine, Chloramphenicol, paludrine. 5.5 Drug action of sulpha drugs.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Department of Chemistry
Criterion-01 (NAAC), Syllabus covering following values

Choice Based Credit System (CBCSB)
B.Sc. III, Paper No. DSE-F7, Chemistry Paper No. -XV (Physical Chemistry)

	Syllabus	Covering values
Unit I	Phase Equilibria 1.1 Introduction. 1.2 Gibbs phase rule: Phase rule equation and explanation of terms involved in the equation. 1.3 Phase diagram, true and metastable equilibria. 1.4 One component systems: 1.5 Two component systems: 1.6 Three component solid-liquid system	Scientific Values (Human Values)
Unit II	Thermodynamics 2.1 Introduction. 2.2 Free energy: Gibbs function (G) and Helmholtz function (A), Criteria for thermodynamic equilibrium and spontaneity. 2.3 Relation between ΔG and ΔH : Gibbs-Helmholtz equation. 2.4 Phase equilibria : Clapeyron – Clausius equation and its applications. 2.5 Thermodynamic derivation of law of mass action, Van't – Hoff	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

	isotherm and isochore. 2.6 Fugacity and activity concepts. 2.7 Partial molar quantities, Partial molar volume, Concept of chemical potential, Gibbs-Duhem equation.	
Unit III	The Solid State 3.1 Introduction: Space lattice, lattice sites, lattice planes, unit cell. 3.2 Laws of crystallography: 3.3 Weiss indices and Miller indices.	Scientific Values (Human Values)
Unit IV	Chemical Kinetics 4.1 Introduction. 4.2 Simultaneous reactions	Scientific Values (Human Values) Environment and sustainability
Unit V	Distribution law 5.1 Introduction, solute, solvent and solution, miscible and immiscible liquids. 5.2 Nernst distribution law and its limitations. 5.3 Modification of distribution law with respect to change in molecular state of solute (association and dissociation of solute in one of the solvent). 5.4 Applications of the distribution law	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

Shri Vijaysinha Yadav Arts and Science College, Peth Vadgaon

Department of Chemistry


Criterion-01 (NAAC), Syllabus covering following values

Choice Based Credit System (CBCSB)

B.Sc. III, Paper No. DSE-F8, Chemistry Paper No. –XVI (Industrial Chemistry)

	Syllabus	Covering values
Unit I	Sugar Industry 1.1 Introduction. 1.2 Manufacture of cane sugar in India: Extraction of juice, Clarification, Concentration, crystallization, centrifugation and other details of industrial process. 1.3 Byproducts of sugar industry. 1.4 Manufacture of Ethyl Alcohol from Molasses: by fermentation.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit II	Manufacture of Industrial Heavy Chemicals 2.1 Introduction 2.2 Manufacture of Ammonia (NH ₃) 2.3 Manufacture of Sulphuric acid (H ₂ SO ₄) 2.4 Manufacture of Nitric acid (HNO ₃) 2.5 Manufacture of Sodium carbonate (Na ₂ CO ₃) (Washing soda).	Scientific Values, Professional Ethics (Human Values) Environment and sustainability
Unit III	Synthetic Polymers 3.1 Introduction. 3.2 Classification. 3.3 Addition Polymerization: Free radical addition and ionic addition polymerization. 3.4 Ziegler-Natta polymerization.	Scientific Values, Professional Ethics (Human Values) Environment and sustainability

	<p>3.5 Methods of preparation and applications of some organic polymers: Polyethylene, polystyrene, polyvinyl chloride, Phenol-formaldehyde resin.</p> <p>3.6 Conducting organic polymers: Synthesis and properties of Polyaniline, polypyrrol.</p> <p>3.7 Applications of conducting organic polymers.</p>	
Unit IV	<p>Petroleum industry and eco-friendly fuels</p> <p>A] Petroleum industry</p> <p>B] Fuels</p>	<p>Scientific Values, Professional Ethics (Human Values) Environment and sustainability</p>
Unit V	<p>Nanotechnology</p> <p>5.1 Introduction of nanotechnology, history, Classification of nanoparticles based on size.</p> <p>5.2 Optical properties of Nanomaterial's</p> <p>5.3 Synthetic Routes of nanomaterials: Top-down and bottom-up approaches.</p> <p>5.4 Synthesis methods: Sol-gel, precipitation, chemical reduction, chemical vapor deposition, hydrothermal, electrodeposition.</p> <p>5.5 Characterization of nanomaterials: X-Ray diffractometer, Scanning Electron Microscope, Transmission electron microscope.</p> <p>5.6 Applications of nanotechnology.</p>	<p>Scientific Values, Professional Ethics (Human Values) Environment and sustainability</p>


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Shri Vijaysinha Yadav College, Peth Vadgaon
Department of Botany
Syllabus Covering Values
 Academic Year 2023-24

SYLLABUS OF BOTANY AT B. Sc. Part- I

Module	Syllabus	Values Covered
B. Sc. Part-I, Semester-I		
BOTANY Paper-I: DSC-13 A: Microbes, Algae and Biofertilizers		
Module 1 to 2	Microbes: Discovery, General characteristics, Structure, Reproduction, Economic importance of Viruses, Bacteria. Algae: General characteristics, Structure, Reproduction, Economic importance and Life cycle of <i>Nostoc</i> and <i>Spirogyra</i> Biofertilizers: Microbes used as Biofertilizers, Procedure for preparation of Biofertilizers	Professional Ethics, Environment and Sustainability, Human Values
B. Sc. Part - I, Semester - I		
BOTANY Paper-II: DSC-14 A: Cell biology and Analytical techniques		
Module 1 to 2	Cell Structure and functions- Cell as a biochemical entity, Structure and difference between Prokaryotic and Eukaryotic cell, Plant cell wall-structure and functions Cell organelles - Ultrastructure and functions of Chloroplasts, Mitochondria Ribosomes, Endoplasmic reticulum Lysosomes, Peroxisomes Cell membrane - Structure, Fluid Mosaic model, role of cell membrane. Microscopy- Principles of microscopy, Light microscopy, Fluorescence microscopy, Electron microscopy (SEM). Chromatography- Principles and applications of chromatography, Ascending Paper Chromatography, Thin Layer Chromatography (TLC)	Professional Ethics Environment and Sustainability
B. Sc. Part – I Semester – II		
BOTANY Paper-I: DSC-13 B: Mycology, Phytopathology and Mushroom cultivation		
Module 1 to 2	1. Mycology- Fungi- General characters of fungi, Classification as per Ainsworth (1973) up to class, Economic importance and Life cycle of <i>Mucor</i> and <i>Penicillium</i> . Lichens- Occurrence and General characters, Nature of association, Types of lichens, Economic importance. 2. Phytopathology and Mushroom cultivation- Phytopathology- Introduction and General symptoms of plant diseases w.r.t Viral - Yellow vein mosaic of Bhendi,	Professional Ethics, Environment and Sustainability

B. Sc. Part – I Semester – II		
Botany Paper IV: DSC-14B: Archegoniate (Bryophytes, Pteridophytes and Gymnosperms)		
Module 1 to 2	<p>1. Archegoniate and Bryophytes Archegoniate- Introduction, Diagnostic features of archegoniate, Transition to land habit, Alternation of generation. Bryophytes- General characters, Classification as per G.M. Smith (1955) up to classes, Ecological & Economic importance, Morphology, Anatomy and life cycle of <i>Anthoceros</i>.</p> <p>2. Pteridophytes and Gymnosperms Pteridophytes - General characters, Classification as per G.M. Smith (1955) upto classes, Ecological and Economic importance, Morphology, anatomy and life cycle Lycophyta - <i>Selaginella</i>, Heterospory & Seed habitat. Gymnosperms - General characters, Classification as per Sporne (1965) upto classes, Ecological and Economic importance, Morphology, Anatomy and life cycle of Gnetopsida – <i>Gnetum</i>, Connecting link between Pteridophytes and Angiosperms.</p>	Professional Ethics, Human value

SYLLABUS OF BOTANY AT B. Sc. II

Unit	Syllabus	Values Covered
B. Sc. Part II Semester- III		
BOTANY Paper V: DSC-C13: Plant Systematics and Anatomy		
Unit 1	<p>1. Plant systematics -Introduction to systematics, Functions of Taxonomy: Plant Identification, Classification, Nomenclature. Principle and Rules of ICN Morphology of flowering plants: a. Root: Definition, Types and Modifications (Conical, Fusiform, Napiform, Prop, Pneumatophore) Stem: Definition and Modifications (Phylloclade, Rhizome, Corm, Tuber) Leaf: Definition and (Simple and Compound, Phyllotaxy) Flower: Definition, Typical flower and Types (Actinomorphic, Zygomorphic) e. Inflorescence: Definition and Types f. Fruits: Definition and types Bentham and Hooker's Classification (outline up to subclasses mentioning the numbers of series, orders), Merits and demerits</p> <p>1b. Herbaria and Botanic gardens - Herbaria: Introduction and functions, examples with salient features 'CAL' and 'K' (Virtual herbarium) Botanic gardens: Introduction and functions, example with salient features: Lead Botanic Garden (SUK)</p>	Professional Ethics Environment and Sustainability
Unit - 2	<p>2a. Structure and development of plant body - Anatomy: Introduction to internal organization of plant body Organization of shoot apex: Apical cell theory Organization of root apex: Quiescent centre concept Types of tissues: Meristematic tissue types based on position (Apical, intercalary and lateral) Permanent tissue types [Simple tissue: Parenchyma, Collenchyma, Sclerenchyma and Complex tissue: Xylem, Phloem]</p>	

Unit - 2	<p>2a. Structure and development of plant body - Anatomy: Introduction to internal organization of plant body Organization of shoot apex: Apical cell theory Organization of root apex: Quiescent centre concept Types of tissues: Meristematic tissue types based on position (Apical, intercalary and lateral) Permanent tissue types [Simple tissue: Parenchyma, Collenchyma, Sclerenchyma and Complex tissue: Xylem, Phloem]</p>	
	<p>2b. Primary and secondary structure- Primary structure of root, stem and leaf (Dicot and Monocot) Secondary structure (Normal) of root and stem (Dicot and Monocot)</p>	
<p align="center">B. Sc. Part II Semester- III Paper VI: DSC-C14: Genetics and Molecular biology</p>		
Unit 1 to 2	<p>1a. Mendelian inheritance - Introduction and terminologies Principles of inheritance-Mendel's Laws Chromosome theory of inheritance Linkage: Introduction, types and significance, Crossing over- Introduction and significance</p> <p>1b. Variation in Chromosome Number and Structure - Structure of chromosome and types of chromosomes based on position of centromere Structural variations: Deletion, Duplication, Inversion and Translocation, Numerical v.</p> <p>2a. Nucleic Acids: Carriers of Genetic Information - Nucleic acids – DNA and RNA a. DNA structure: Watson and Crick's Model, Forms of DNA – A, B, Z. b. RNA structure, Types- mRNA, tRNA and rRNA c. Significance of nucleic acids. DNA as a genetic material: Griffith's experiment.</p> <p>2b. DNA Replication - Concept of Central Dogma of molecular biology. DNA replication and Enzymes involved. Concept of genetic code</p>	Professional Ethics Environment and Sustainability, Human values
<p align="center">B. Sc. Part II, Semester- IV Botany Paper VII: DSC-D 13 - Plant Ecology and Economic Botany</p>		
Unit 1 to 2	<p>1a. Introduction to Plant Ecology - Basic Concept, Levels of organization. Concept and Types of ecosystems: a. Terrestrial- Grassland, Aquatic-Lake. Trophic organization, Food Chains and Webs and Ecological pyramids. Phytogeography: Principles, Phytogeographical regions of India (Chatterjee, 1962)</p> <p>1b. Abiotic factors: Soil and Water - Soil: Importance, Origin, Formation, Composition and Soil profile. Water: Introduction and importance, States of water in the soil and environment, Water Table; plant indicators of water table</p> <p>2a. Origin of Cultivated Plants - Concept of Centers of Origin, their importance with reference to Vavilov's work, Importance of Germplasm diversity- Seed bank; Contribution of Padmashree Rahibai Soma Popere (Bijmata)</p>	Environment and Sustainability

	2b. Utilization of plants -Botanical name, Origin (Native place), Morphology, Plant parts used and Economic importance of a. Millets: Finger millet b. Spices: Clove c. Condiment: Bay leaf (Tamalpatra) d. Beverages: Coffee e. Oil yielding: Soybean f. Medicinal: Neem g. Dyes: Heena h. Cosmetics: Aloe i. Timber: Teak j. Fibers: Cotton k. Rubber: Rubber fig	
B. Sc. Part II Semester- IV Botany Paper VIII: DSC D14: PLANT PHYSIOLOGY, NURSERY AND GARDENING TECHNIQUES		
Unit 1 to 2	1a. Fundamentals of Plant Physiology and Photosynthesis- Introduction to Plant Physiology. Photosynthesis-Introduction and significance Photosynthetic pigments (Chlorophyll a, b, xanthophylls, carotene) and Photosystems Mechanism of Photosynthesis) Light reaction: Photolysis of water, Photophosphorylation (cyclic and noncyclic) b) Dark Reaction: C3, C4 and CAM 1b. Respiration - Respiration: Introduction and significance Types of Respiration: Aerobic and Anaerobic Mechanism of Aerobic respiration a) Glycolysis b) Formation of Acetyl- CoA c) TCA / Krebs cycle d) Electron transport 2a. Nursery techniques - Nursery: Definition, objectives, types and scope. Infrastructure and planning for nursery, poly house. Propagation practices a. Seed propagation - Planting-direct seedling and transplants. Vegetative propagation – cutting (Soft wood and hard wood), layering (air), grafting (Whip and Tongue) and budding ('T' and Patch). 2b. Gardening Techniques - Introduction, objectives, scope and advanced gardening. Types of gardening-landscape and home gardening, Terrarium, Floating Garden, Bottle Garden, Hanging Garden, Vertical Garden. Bonsai technique, Important gardens in India: Lalbagh (Bangalore) and Mughal Garden (New Delhi)	Professional Ethics, Environment and Sustainability, Human values

SYLLABUS OF BOTANY AT B.Sc. Part-III

Unit	Syllabus	Values Covered
B. Sc. Part III Semester- V BOTANY Paper IX: DSC-E 25 Genetics and Plant Breeding		
Unit 1 to 4	Unit 1: Mendelism: Introduction, Definition and Basic terminologies in genetics. Principles of inheritance a) Law of Dominance b) Law of Segregation c) Law of independent Unit 2 : Linkage and Recombination- Linkage: Definition, Linkage group, Types, Coupling and Repulsion phase, Significance. Recombination (Crossing over): Definition, Types, Mechanism of crossing over, Significance Mutation – Definition, Spontaneous and Induced mutation. Types of mutagen Physical and Chemical, Significance. Unit 3: Chromosomes structure and Variation - Chromosome structure - Introduction, types (based on position of centromere) Multiple allelism: Introduction, Definition, Self-incompatibility in plants Quantitative inheritance: Polygene inheritance- Concept, examples- Kernel colour in wheat, b) Population genetics- Hardy-Weinberg's law. Maternal inheritance- Mendelian versus	Professional Ethics Environment and Sustainability

	<p>cytoplasmic inheritance, Plastid inheritance in <i>Mirabilis jalappa</i>. Alternation in genetic make-up and its significance a) Change in chromosome structure- Deletion, Duplication, Inversion and Translocation. Change in chromosome number- Euploidy and Aneuploidy.</p> <p>Unit 4: Plant Breeding - Introduction, Definition of plant breeding. Aims and objectives of plant breeding Methods of plant breeding a) Introduction and acclimatization Selection- i) Mass selection ii) Pure line selection iii) Clonal selection c) Hybridization techniques in self- and cross-pollinated crops. d) Male sterility and its significance Mutation breeding- Gamma garden.</p>	
Paper X: DSC-E26 Microbiology, Plant Pathology and Mushroom Culture Technology		
Unit 1 to 4	<p>Unit 1: Microbiology - Microorganisms in biological world, characteristic features of different groups: Phytoplasmata and Actinomycetes Methods in Microbiology: Staining for microbes: Bacteria, Sterilization Methods, Culture Media, Pure Culture Techniques Recombination in Bacteria: Transformation and Transduction</p> <p>Unit 2: Industrial Microbiology Applications of micro-organisms with reference to Synthesis of Antibiotics (Penicillin), Organic Acids (Lactic Acid), Alcohol (Ethyl Alcohol) Bio-pesticides- Concept, Types and Significance</p> <p>Unit 3: Plant Pathology - Classification of Plant Diseases: on the basis of Pathogens and Symptoms Transmission of Pathogen- Air borne, Seed borne and Soil borne Prevention and Control: Physical, Chemical and Biological Control, Role of Quarantine Study of Plant Diseases i) Grassy Shoot of Sugarcane (Phytoplasmata), ii) Citrus Canker (Bacterial), iii) Yellow Vein Mosaic of Bhendi (Viral), iv) White Rust of Crucifers and Tikka Disease of ground nut (Fungal)</p> <p>Unit 4: Mushroom Technology History, Types of Mushrooms: Edible (Non poisonous) and inedible (Poisonous). Cultivation Technology: Pure culture: Medium, Sterilization, Preparation of spawn, Multiplication, Mushroom bed preparation, factors affecting the mushroom bed preparation and composting technology in mushroom production. Storage: Short Term (Refrigeration), Long Term Storage (Canning, Pickles, Papads), Drying in Salt Solutions Values of Mushroom: Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.</p>	Professional Ethics Environment and Sustainability
Paper XI: DSC-E27 Cytology and Research Techniques in Biology		
Unit 1 to 4	<p>Unit 1: Cell as a unit of life Introduction, The Cell Theory, Prokaryotic and Eukaryotic cells, Cell cycle and Apoptosis. Cell division: Mitosis and Meiosis with their significance.</p> <p>Unit 2: Cell Organelles- Nucleus: Ultra structure, Nuclear envelope, Nuclear pore complex, DNA packaging in Eukaryotes. Mitochondria: Ultrastructure, semiautonomous body and Role. Chloroplasts: Ultrastructure, semiautonomous body and Role.</p>	Professional Ethics Environment and Sustainability

	<p>Ribosomes: Structure and Functions of Prokaryotic and Eukaryotic ribosome.</p> <p>Unit 3: Sub Cellular Structures and Cell Membrane -ER, Golgi body and Lysosomes: Structure and Role, Peroxisomes and Glyoxysomes: Structure and Role. Cell membrane: Structure, Fluid Mosaic Model, Role. Types of membranes as per permeability.</p> <p>Unit 4: Research Techniques in Biology- Principles of microscopy, Light, Fluorescence and Electron microscopy (EM)- Scanning EM. Colorimetry, Spectrophotometry, Micrometry, Photomicrography, Intellectual property right (IPR) – Concept and Importance. Patents – Objectives, Procedure and Working</p>	
Botany Paper- XII DSE-E28 Horticulture and Gardening		
Unit 1 to 4	<p>Unit 1: Importance and divisions of Horticulture - Introduction and importance of horticulture, Divisions of Horticulture – Pomology, Olericulture, Floriculture, Landscape gardening.</p> <p>Unit 2: Horticultural Produce and Management of Pest and diseases Floriculture: a) Introduction, Cultivation of important cut flowers and management of important pests and diseases: Rose, Gerbera and Marigold. b) Flower arrangements, Packing and Marketing of cut flowers. Fruit preservation technology: a) Physical - Drying, freezing, heat, b) Chemical - sugar, salt, chemical preservatives.</p> <p>Unit 3: Nursery - Definition, objectives and scope, Infrastructure for nursery Propagation Practices: Sexual and Asexual a) Sexual: Seed: Sowing of seed, Transplanting of seedling, Advantages and Disadvantages. b) Vegetative: i) Cutting – Definition, Stem cutting (Hard wood stem and soft wood stem), Use of PGR's for rooting ii) Layering –Definition, Simple layering, Air layering iii) Grafting – Definition, Whip grafting, Approach grafting iv) Budding: Definition, T-budding, Patch budding c) By specialized vegetative structure – Bulbs, Corms, Tubers, Rhizomes</p> <p>Unit 4: Landscape Gardening - Definition, scope and objectives 4.2 Indoor Garden – Indoor plants, bottle garden, dish garden, hanging basket, Bonsai, Vertical Garden, Outdoor Garden – Lawns, Preparation of lawn, lawn types, Rockery, Terrace garden, Water garden, green house and polyhouse, Important aesthetic Gardens of India: i) Mughal garden, Delhi ii) Brindavan garden, Mysore.</p>	<p>Environment and Sustainability</p> <p>Professional Ethics</p>
Botany Paper- XIII DSE-F25 Plant Biochemistry and Molecular Biology		
Unit 1 to 4	<p>Unit 1: Carbohydrates - Introduction and Classification of carbohydrates. Structure and Properties of- a) Monosaccharides (Pentose- Ribose, Hexose: Glucose), b) Oligosaccharides (Sucrose), c) Polysaccharides (starch). Isomerism: Types of Isomers (Structural and Stereoisomer) Significance of carbohydrates.</p> <p>Unit 2 : Lipids - Introduction. General Structure, properties and classification of Lipids , Structure and properties of Saturated Fatty Acids (Stearic and Palmitic acid) and Unsaturated Fatty Acids (Oleic acid, Linoleic and) Significance of Lipids.</p>	<p>Professional Ethics</p> <p>Gender Equality</p>

	<p>Unit 3: Proteins - Introduction, structure, Properties, Characteristics and classification of Amino acids , Brief Outline of biosynthesis of Amino acid: Proline. General Structure, Classification of Protein. Protein Biosynthesis in Eukaryotes: Transcription and translation</p> <p>Unit 4: Nucleic Acids - Introduction, Composition and Structure DNA: Watson and Crick Model, Forms of DNA (A, B and Z) DNA Replication in Eukaryotes RNA: Types, structure and role of RNA's Regulation of Gene expression- Lac Operon, Tryptophan Operon.</p>	
Botany Paper- XIV DSE-F26 Bioinformatics, Biostatistics and Economic Botany		
Unit 1 to 4	<p>Unit 1: Bioinformatics - Introduction, Aim, Scope and Branches of Bioinformatics , Biological Databases: Classification Format and Retrieval system of Biological Database, National Center for Biotechnological Information (NCBI), Basic Local Alignment Search Tool (BLAST) , Protein Information Resource (PIR) - Concept, Resources, Databases and Data Retrieval , Applications of Bioinformatics- Molecular Phylogeny (Concept, Methods, Analysis and Consistency)</p> <p>Unit 2: Biostatistics - Introduction, definition, terminology. - Collection and presentation of data: Types of data, techniques of data collection- Census method, sampling method- simple random, stratified and systematic sampling. Classification, tabulation, graphical representation- Histogram and polygon. - Measures of central tendency and Dispersion: Arithmetic mean, Mode, Median, Range, Deviation, Mean deviation, Standard Deviation, Coefficient of Variation. - Statistical methods for testing the hypothesis') Students' T-test ii) Chi-square test.</p> <p>Unit 3: Economic Botany: Cereals, Legumes and Oils -Origin of Cultivated Plants - Concept of centers of origin, their importance with reference to Vavilov's work. Cereals: Origin, Botanical Name, Morphology, Sources and Economic importance of Wheat. Legumes: Origin, Botanical Name, Morphology, Sources and Economic importance of Gram and Soybean. Oils and Fats: Origin, Botanical Name, Morphology, Parts used and uses of Ground nut</p> <p>Unit 4: Economic Botany: Spices, Beverages and Fibers - Spices and Condiments - Origin, Botanical Name, Morphology, Parts used and Uses of Clove and Black pepper. Beverages – Origin, Botanical Name, Morphology, Parts used and uses of Tea. Fibre yielding Plants - Origin, Botanical Name, Morphology, Parts used and uses of Cotton..</p>	<p>Professional Ethics Human values Environment and Sustainability</p>
Botany Paper- XV DSE-F27 Plant Biotechnology and Paleobotany		
Unit 1 to 4	<p>Unit 1: Plant Biotechnology - History, Definition, Scope and Importance (Areas of application) 1.2 Biotechnology in India</p> <p>Unit 2: Recombinant DNA Technology -Introduction, Principles and enzymes involved in DNA technology. Cloning Vectors: a) Prokaryotic- Plasmid, Lambda phage and Cosmid. (Brief idea) b) Eukaryotic-YAC (Yeast Artificial Chromosomes). Southern blotting and Northern blotting techniques and its applications,</p>	<p>Professional Ethics Environment and Sustainability</p>

	<p>Molecular Probes. DNA Fingerprinting, Molecular DNA Markers (RAPD, RFLP) PCR, DNA sequencing and Concept of Gene bank.</p> <p>Unit 3: Plant Tissue Culture - Principles and Terminologies, Laboratory Requirement (Conditions and Instruments), Culture Media, Totipotency and Cellular Differentiation, Micro propagation: Stages of Micro propagation- Callus formation, Root Initiation, Shoot Initiation, Primary and Secondary Hardening, Advantages and disadvantages Embryogenesis: Protoplast culture, Cybrid. Somaclonal Variations</p> <p>Unit 4: Paleobotany - General account, Geological time scale, process of fossilization, Types of fossils. Study of following form genera with reference to systematic position, external morphology and affinities: a) Lyginopteris b) Enigmocarpon. Application of paleobotany: Role of microfossil in oil and coal exploration.</p>	
Botany Paper- XVI DSE-F28 Plant Bio Fertilizers and Herbal Drug Technology		
Unit 1 to 4	<p>Unit 1: Biofertilizers - Introduction, Importance, types and study of – a) Bacterial fertilizers: Rhizobium, Azotobacter, Azospirillum b) Blue green Algal: Cyanobacteria (BGA): Nostoc, Anabaena. c) Mycorrhizal association: VAM d) Fungal: Trichoderma - Organic manures – a) Farm Yard Manure, Green manure, Compost b) Vermicomposting and Vermi-wash.</p> <p>Unit 2: Herbal Medicines- Definition, Importance of herbal medicines . Classification of crude drugs: Taxonomical, Morphological and Chemical. Identification, authentication, collection, processing and storage of medicinal plants. Introduction to general methods of extraction, isolation and purification of Phyto constituents.</p> <p>Unit 3: Herbal cosmetology - Applications of herbs in cosmetics: Shampoo (Sapindus laurifolius, Acacia concinna), hair dye (Lawsonia inermis) Facemask (Santalum album), bath oil (Rosa indica), perfume (Jasminum sambac).</p> <p>Unit 4: Pharmacognosy - Pharmacognosy: Introduction And, Definition - Medicinal uses of Tulsi, Ginger, Methi, Amla. Adulteration of drugs of natural origin: Evaluation by morphological, Microscopic, Chemical, Physical, Chromatographical, Spectrophotometric. Plant antioxidants: Properties of Antioxidants, Vitamins (C and E).</p>	Professional Ethics Environment and Sustainability

For
Signature

Mr. D. G. Jagtap
(HOD)

Head
Department of Botany
Shri. Vijaysinha Yadav College
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Signature

Dr. A.S. Chavan

I/C Principal
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Shri Shahu Shikshan Prasarak Seva Mandal's

Shri Vijaysinha Yadav College, Peth Vadgaon**Department of Zoology****Syllabus with Cross cutting issues**

Academic Year 2023-24

Syllabus of Zoology at B. Sc. I

Unit	Syllabus	Values Covered
B. Sc. Part – I Semester – II ZOOLOGY DSC – (CELLBIOLOGY AND EVOLUTIONARY BIOLOGY)		
Unit 1	Cell structure- Structure of Chromosome With reference to Morphology and organization (Nucleosome), Polytene Chromosomes	Professional Ethics Gender Equality
B. Sc. Part – I Semester – II ZOOLOGY DSC – 16B (GENETICS)		
Unit 1	Introduction to Genetics Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information Mendelian and post Mendelian Genetics Principles of Inheritance, Incomplete dominance and co-dominance, gene interaction, Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance.	Professional Ethics Gender Equality

Syllabus of Zoology at B. Sc. II

Unit	Syllabus	Values Covered
B. Sc. Part II Semester- IV ZOOLOGY Paper-VII DSC- (REPRODUCTIVE BIOLOGY)		
Unit 1	Functional anatomy of female reproduction: Outline and histological structure of female reproductive system in rat and human; Ovary: folliculogenesis, ovulation, corpus luteum formation and regression; Steroidogenesis and secretion of ovarian hormones; Reproductive cycles in human and their regulation, changes in the female tract; Ovum transport in the fallopian tubes; Sperm transport in the female tract, fertilization; Hormonal control of implantation; pregnancy diagnosis Hormonal regulation of gestation, , Mechanism of parturition and its hormonal regulation; Lactation and its regulation.	Professional Ethics Gender Equality, Human Values
Unit 2	Functional anatomy of male reproduction: Outline and histology of male reproductive system in human; Testis: Cellular functions, germ cell; Spermatogenesis: hormonal regulation;	Professional Ethics Gender Equality, Human Values


	epididymal function and sperm maturation; Accessory glands functions; Sperm transportation in male tract.	
Unit 3	Reproductive Health: Infertility in male and female: causes, diagnosis and management; Assisted Reproductive Technology: sex selection, sperm banks, frozen embryos, in vitro fertilization, ET, EFT, IUT, ZIFT, GIFT, ICSI, PROST; Modern contraceptive technologies.	Professional Ethics Gender Equality, Human Values
B. Sc. Part II Semester- IV ZOOLOGY Paper-VIII DSC- ... (APPLIED ZOOLOGY-I)		
Unit 2	Epidemiology of Diseases: Transmission, Prevention and control of diseases: Tuberculosis, Typhoid.	Professional Ethics Human Values Environment and Sustainability
Unit 3	Rickettsia and Spirochaetes: Brief account of Rickettsia prowazekii, Borrelia recurrentis and Treponema pallidum.	Professional Ethics Human Values Environment and Sustainability
Unit 4	Insects of Economic Importance: Biology, Control and damage caused by Helicoverpa armigera, Pyrrilla perpusilla and Papilio demoleus, Callosobruchus chinensis, Sitophilus oryzae and Tribolium castaneum	Professional Ethics Human Values Environment and Sustainability
Unit 5	Poultry Farming: Principles of poultry breeding, Management of breeding stock and broilers, Processing and Preservation of eggs.	Professional Ethics

Syllabus of Zoology at B.Sc. III

Unit	Syllabus	Values Covered
Zoology Paper- X DSE-F29 (Molecular Cell Biology and Animal Biotechnology)		
Unit 3	<p>Molecular Techniques in Gene manipulation</p> <ol style="list-style-type: none"> 1. Restriction enzymes: Nomenclature, detailed study of Type II. 2. Characteristics of Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda Bacteriophages 3. Gene cloning: Transformation techniques by Calcium chloride method and electroporation 4. Construction of genomic and cDNA libraries 5. Southern, Northern and Western blotting 6. DNA sequencing: Sanger method 7. Polymerase Chain Reaction, 8. DNA Finger Printing 9. DNA micro array 	Professional Ethics Gender Equality Human Values
Zoology Paper- XI DSE-F30 (Biotechniques and Biostatistics)		
Unit 1	<p>Genetically Modified Organisms</p> <ol style="list-style-type: none"> 1. Production of cloned and transgenic animals: <ol style="list-style-type: none"> a. Nuclear Transplantation b. Retroviral Method c. DNA microinjection 2. Applications of transgenic animals: <ol style="list-style-type: none"> a. Productions of pharmaceuticals b. Production of donor organs 3. Knockout mice. 	Professional Ethics Environment and Sustainability
Unit 2	<p>Culture Techniques and Applications</p> <ol style="list-style-type: none"> a. Animal cell culture: Introduction, principle and applications 	Professional Ethics Gender Equality

	b. Stem Cells: Introduction to stem cells i) Potency of stem cells: Totipotency, Pluripotency, Multipotency, Unipotency ii) Sources of stem cells-Embryo, Fetal, Adult, Bone marrow	Human Values Environment and Sustainability
Zoology Paper- XII DSE-F31 (AQUATIC BIOLOGY)		
Unit 1	Aquatic Biomes a. Freshwater ecosystem (lakes, wetlands streams & rivers), b. Estuaries c. Intertidal zones d. Oceanic pelagic zone e. Marine benthic zone f. Coral reefs	Environment and Sustainability
Unit 2	Freshwater Biology 1. Lakes a. Lake as an Ecosystem b. Lake Morphometry c. Physico-chemical characteristics i. Light ii. Temperature iii. Thermal Stratification iv. Dissolved solids v. Carbonates vi. Bicarbonates vii. Phosphates and Nitrates viii. Turbidity ix. Dissolved gases (Oxygen Carbon dioxide) x. Nutrient Cycle – (Nitrogen, Sulphur and Phosphorus) 2. Streams a. Different stages of stream development b. Physico-chemical Environment c. Adaptation of hill stream fishes	Environment and Sustainability
Zoology Paper- XIII DSE-E30 (DEVELOPMENTAL BIOLOGY OF VERTEBRATES)		
Unit 1	Gametogenesis 1. Types of Eggs 2. Fertilization – Types and Process of Fertilization 3. Types of Cleavages	Professional Ethics Gender Equality
Unit 2	Early Development of Frog 1. Structure of mature egg and its membranes 2. Cleavage 3. Blastula and its fate map 4. Process of gastrulation 5. Types of Morphogenic Movements 6. Fate of three germinal layers 7. Neurulation 8. Metamorphosis in frog and its hormonal regulation	Professional Ethics Gender Equality
Unit 3	Chick Embryology 1. Structure of sperm 2. Structure of egg and vitellogenesis 3. Fertilization and cleavage 4. Blastula and its fate map 5. Process of gastrulation 6. Organogenesis a. Development of neural tube and brain up to 72 hours of incubation b. Development of gut up to 72 hours of incubation c. Development of blood and heart up to 72 hours of incubation d. Foetal membranes and significance	Professional Ethics Gender Equality
Unit 4	Late Embryonic Development 1. Implantation of embryo in human being 2. Placenta – Formation, types and significance	Professional Ethics Gender Equality
Zoology Paper- XV DSE-E31 (Applied Zoology - II)		

Unit 1	Apiculture 1. Types and casts of honey bee 2. Honey Comb 3. Bee Keeping a. Artificial models of bee hive – Newton and Langstroth models b. Bee keeping Equipments c. Extraction of Honey 4. Medicinal Value of Honey	Professional Ethics
Unit 2	Animal Husbandary 1. Indigenous and exotic breeds of cattle 2. Preservation and artificial insemination in cattle 3. Induction of early puberty 4. Synchronization of estrus in cattle 5. Commercial importance of dairy farming	Professional Ethics
Unit 3	Pearl culture 1. Species of oyster 2. Process of Pearl formation: natural and artificial 3. Maintenance of oysters 4. Harvesting 5. Importance of Pearl	Professional Ethics
Unit 4	Freshwater prawn culture 1. Species of Prawn 2. Site selection 3. Farm Construction 4. Production system: fertilization, Larval Development, Food and feeding 5. Harvesting	Professional Ethics
Unit 5	Fish Technology Genetic improvements in aquaculture industry: 1. Induced breeding 2. Transportation of fish seed 3. Feeding and development 4. Harvesting and Marketing	Professional Ethics
Unit 6	Goat Farming 1. Breeds 2. Feeding 3. Housing 4. Economic Importance	Professional Ethics


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Department of Zoology

Departmental Activities on Syllabus Ethics

Academic Year 2023-24

- i) Following activities were conducted to cover the syllabus ethics –
 Environment and sustainability

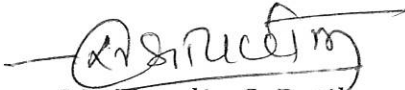
Sr. No.	Class	Program name	Date	Covered Ethics
1	B. Sc. I	Study tour at Mahalaxmi Lake, Peth Vadgaon	16-03-2024	Environment and sustainability
2	B. Sc. II	Study tour at Ratnagiri, Malvan, Deobagh	24 & 25-01-2024	
3	B. Sc. III	Study tour at Khatal goat farm, Ghunaki	27-02-2024	
4	B. Sc. III	Study tour at Ratnagiri, Malvan, Deobagh	24 & 25-01-2024	


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Department of Physics
Shri Vijaysinha Yadav College, Pethvadgaon
List of Courses with Cross cutting issues
2023-24

Name of Programme		Name and description of the course	Issues covered
Physics	B. Sc. I	Physics Paper I: Mechanics I	Scientific Approach
		Physics Paper II: Mechanics II	Scientific Approach
		Physics Paper III: Electricity and Magnetism I	Environment and Sustainability
		Physics Paper IV: Electricity and Magnetism II	Environment and Sustainability
	B. Sc. II	Physics Paper V: Thermal Physics and Statistical Mechanics I	Environment and Sustainability
		Physics Paper VI: Wave and Optics I	Scientific Approach
		Physics Paper VI I: Thermal Physics and Statistical Mechanics II	Environment and Sustainability
		Physics Paper VIII: Wave and Optics II	Scientific Approach
	B. Sc. III	Physics Paper IX: I Mathematical physics	Scientific Approach
		Physics Paper X: Quantum Mechanics	Scientific Approach
		Physics Paper X I: Classical Mechanics and Classical Electrodynamics	Scientific Approach
		Physics Paper XII: Digital and Analog Circuits and Instrumentation	Environment and Sustainability
		Physics Paper XIII: Nuclear and Particle Physics	Environment and Sustainability
		Physics Paper XIV: Solid State Physics	Scientific Approach
		Physics Paper XV: Atomic and Molecular Physics and Astrophysics	Environment and Sustainability
		Physics Paper XVI: Energy Studies and Materials Science	Environment and Sustainability


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CRITERION I: POINT 2

CROSS CUTTING ISSUES: DEPARTMENT OF MATHEMATICS

Class	Paper Name and subject code	Cross cutting issues covered
B.Sc. I	1. Differential Calculus DSC5A	Sustainability
	2. Calculus DSC 6A	Sustainability
	3. Differential Equations DSC 5B	Sustainability , Professional Ethics
	4. Higher Order Differential Equations DSC 6B	Sustainability , Professional Ethics



CRITERION I: POINT 2

CROSS CUTTING ISSUES: DEPARTMENT OF MATHEMATICS

Class	Paper Name and subject code	Cross cutting issues covered
B.Sc. II	5. Elements of DE. DSC 5C	Sustainability
	6. Num.Methods DSC 6C	Professional Ethics
	7. Vector Calculus DSC5D	Sustainability
	8. Integral Calculus DSC 6C	Professional Ethics



CRITERION I: POINT 2

CROSS CUTTING ISSUES: DEPARTMENT OF MATHEMATICS

Class	Paper Name and subject code	Cross cutting issues covered
B.Sc. III	9. Mathematical Analysis DSE 9E	Sustainability
	10. Abstract Algebra DSE 10E	Professional Ethics
	11. Optimization Techniques DSE 11E	Professional Ethics
	12. Integral Transforms DSE 12E	Professional Ethics



CRITERION I: POINT 2

CROSS CUTTING ISSUES: DEPARTMENT OF MATHEMATICS

Class	Paper Name and subject code	Cross cutting issues covered
B.Sc. III	13. Metric Spaces DSC 9F	Sustainability
	14. Linear Algebra DSE 10F	Professional Ethics
	15. Complex Analysis DSE 11F	Sustainability
	16. Discrete Structure DSE 12F	Professional Ethics
	Practicals	Professional Ethics
	Study Tour	Environment , Sustainability and Human Values
	Projects	Professional Ethics , Human Values



Shri D. B. Patil

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Shri Vijaysinha Yadav College, Peth Vadgaon
Department of Commerce
Syllabus covering following values and Ethics 2023-2024

BCOM I

Semester I

Sr.	Subject	Unit in Syllabus	Covered Ethics
1.	Insurance	Unit I - Introduction to insurance Unit II - Life Insurance Unit III - Life Insurance Policy Unit IV - Life Insurance Business in India	Human Ethics Investment awareness Types of policy Business Ethics
2.	Financial Account	Unit I - Introduction to Accounting Unit II – Amalgamation of partnership firm Unit III – Consignment Account Unit IV – Accounts of professionals	Accounting standers Business goals Business Ethics Professionals Ethics
3.	Principle of Marketing	Unit I – Introduction to Marketing Unit II – Consumer Behavior Unit III – Rural Marketing Unit IV – Recent Development in Marketing	Evolution of Marketing Human & Professional Ethics Social and Economic changes Online Marketing Honesty
3.	Principle of Marketing	Unit I – Introduction to Marketing Unit II – Consumer Behavior Unit III – Rural Marketing Unit IV – Recent Development in Marketing	Evolution of Marketing Human & Professional Ethics Social and Economic changes Online Marketing Honesty
4.	Management Principles	Unit I - Introduction to Management Unit II – Planning and Decision Making Unit III – Organizing Unit IV – Direction and Communication	Behavioral Approach Business ,Swoc Analysis, Techniques Human Values Overcoming Barriers to Communication
5.	Micro Economics	Unit I – Demand and Consumer Behavior Unit II – Demand forecasting Unit III – Production Function Unit IV – Cost of Production and Revenue	Marketable Market Survey Business Production
6.	Business Communication	Module I – Module II – Module III – Module IV –	Business Ethics Developing Spoken Skill Human Ethics Developing reading skill

B.COM I**Semester II**

Sr.	Subject	Topics in Syllabus	Covered Ethics
1.	Insurance	Unit I – Fire Insurance Unit II – Marine Insurance Unit III – Miscellaneous Insurance Unit IV - General Insurance business in India	Protection against Fire Human Ethics Business Ethics Growth of General Insurance
2.	Financial Account	Unit I – Single Entry System Unit II – Conversion Of Partnership Firm into Limited company Unit III – Branch Accounts Unit IV- computerized Accounting system	Double Entry system transaction Expand Business Business knowledge Accounting Software Tally
3.	Principle of Marketing	Unit I – Product Unit II – Pricing and Promotion Unit III – Distribution channels Unit IV- Retailing	Consumer Goods and Industrial Goods Trust and brand reputations , Personal Selling Knowledge of Marketing , Direct Marketing , Physical Distributions Store based on and non store based retailing Super market knowledge
4.	Management Principles	Unit I – Motivation Unit II – Leadership Unit III – Co-ordination and control Co-ordination	Financial and non Financial Motivation Qualities of Leader Case study of Leadership Process of

		Unit IV- Emerging Issue in Management Corporate Social Responsibility	controlling , Techniques of Control Green Management overcoming Resistance to change
5.	Micro Economics	Unit I –Perfect Competition Unit II – Monopoly Unit III – Monopolistic Competition & Oligopoly Unit IV-Factor Pricing	Professional Ethics Market Knowledge Business Ethics Production,Rent
6.	Business Communication	Module V – Module VI – Module VII– ModuleVIII-	Human Values Developing reading skill Learning story telling skill

BCOM II

Semester III

Sr.	Subject	Topics in Syllabus	Covered Ethics
1.	Co-operative Accounting	Unit I – Issue and forfeiture of shares Unit II – Issue and Redemption of Debenture Unit III – Preparation of Final Accounts of Companies Unit IV- Practical of Fundamentals Computerized Accounting With Tally	Valuation of Right shares ,SEBI guidance Issue of debenture at par,at premium,at discount, Schedule of Balance Sheet & Profit & Loss A/c Knowledge about Tally Software, Types Voucher
2.	Macro Economics	Unit I – Introduction of Micro economics Unit II – National Income Unit III – Value of Money Unit IV-Out put &Employment	View approach Types of income Knowledge of inflation Consumer demand
3.	Money and Finance	Unit I – Introduction to money Unit II – Introduction to Banking Unit III – Banking business & practices Unit IV-New Trends & Recent	Knowledge of money Banking Business Income of Banking Financial Evolution
4.	Fundamental of Entrepreneurship	Unit I Entrepreneurship Unit II-Entrepreneurship Development	Business Ethics Personal Ethics

		Unit III – Micro ,Small &Medium enterprise Unit IV-Recent Trends &Concept on Entrepreneurship	Business Ethics Social responsibility
5.	Business statistics	Unit I – Unit II – Unit III – Unit IV	sustainability and Professional Ethics
6.	Business Communication	Module I – Module II – Module III- Module IV-	Improvement Oral Skills Development of Conversation Skill Competitive Examination Human Ethics

BCOM II

Semester IV

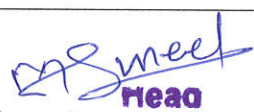
Sr.	Subject	Topics in Syllabus	Covered Ethics
1.	Co-operative Accounting	Unit I – Profit/Loss Prior to Incorporation Unit II – Valuation of Shares Unit III – Accounting for Liquidation of companies Unit IV- Store Accounting with Practical using Tally	Meaning of Preference Share Valuation Methods of Shares Company Ethics, Schedule of Knowledge of incorporation process Knowledge of Tally ERP 9
2.	Money and Finance	Unit I – Banking Services Unit II – Reserve Bank of India Unit III – Financial Market Unit IV- All India Financial Institute & NBFCs	Modern Banking RBI Information Government Policy Mutual Fund & Non banking Finance
3.	Macro Economics	Unit I – Trade Cycles Unit II – Public Finance Unit III – International Trade Unit IV- Rate of exchange	Business Cycles Social Ethics International Trade Money &Commodity Exchange
4.	Fundamental of Entrepreneurship	Unit I – Family Business Unit II – Service &Agro Entrepreneurship Unit III – Business Plan &Project Report	Business Ethics Long Term Success Entrepreneurship Ethics

		Unit IV-Woman Entrepreneurship & Successful Entrepreneurship	Development of Woman Entrepreneurship
5.	Business statistics	Unit I – Unit II – Unit III – Unit IV	sustainability and Professional Ethics
6.	Business Communication	Module-V Module-VI Module-VII Module-VIII	E- communication English for Competitive Examination Business Ethics Human Ethics

BCOM III

Semester V & VI

Sr.	Subject	Topics in Syllabus	Covered Ethics
1.	Advanced Accountancy I & III	final Account Financial statement Analysis Bank	Professional Ethics Business Ethics
2.	Advanced Accountancy II & IV	Income tax – Income from salary Audit – Internal and external audit of business	Legal Ethics Professional Ethics
3.	Modern Management Practice	Total Quality Management Time Management	Professional Ethics Personal Ethics
4.	Business Regulatory Framework	Company Act 2013 Contract Act 1972	Legal Ethics
5.	Co operation	Maharashtra co-operative Housing society Model cooperation Education and Training	Legal Ethics Social Ethics
6.	Business Environment	Industrial development Agriculture Development	Professional Ethics


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