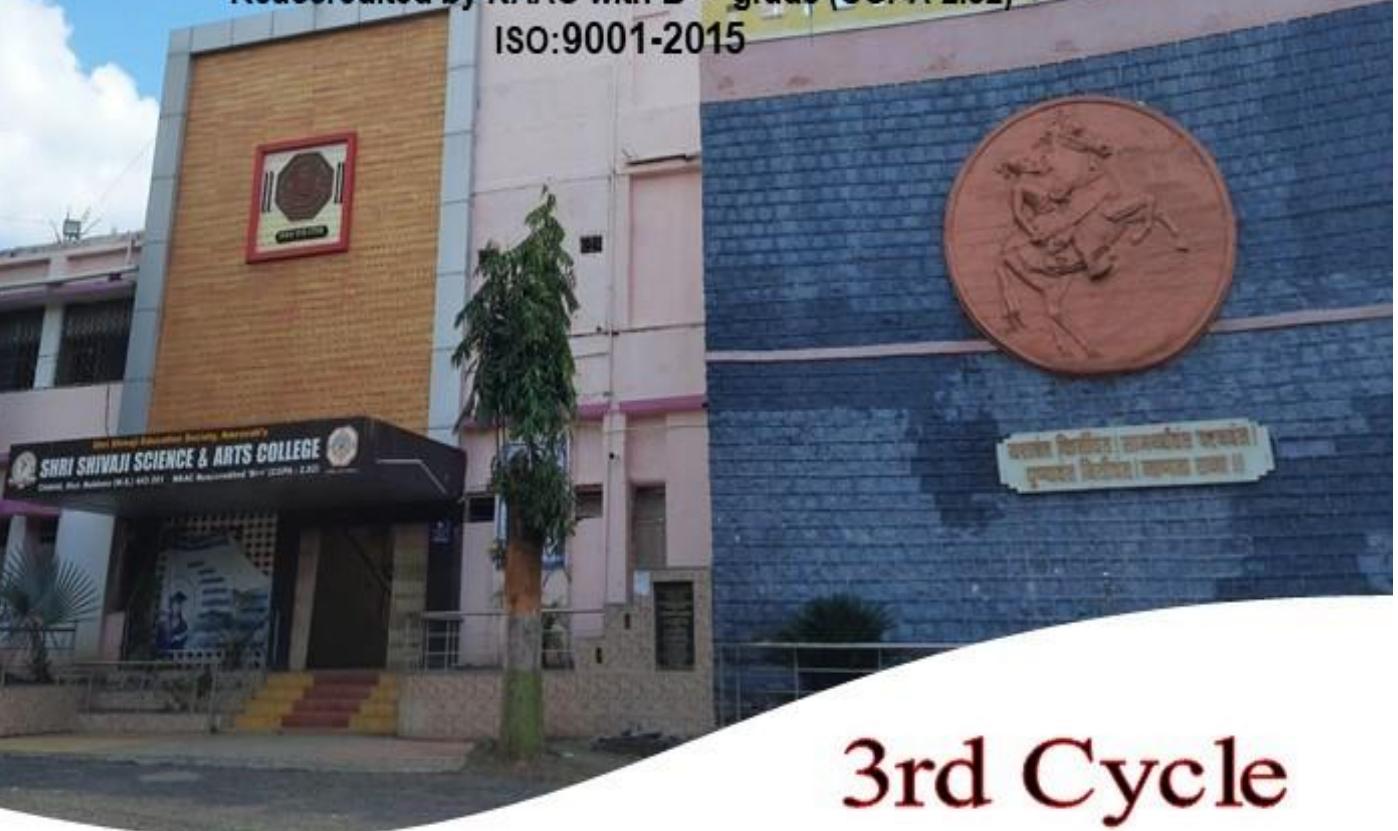




Shri Shivaji Education Society Amravati's  
**Shri Shivaji Science and Arts College, Chikhli.**  
Dist. Buldana. 443201

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**3rd Cycle**

**Assessment & Accreditation by NAAC**

**CRITERION-I**

**CurriculumEnrichment**

**QnM-1.3.1**

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



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**Shri Harshawardhan P. Deshmukh**  
President  
Shri Shivaji Education Society, Amravati

**Dr. Omraj S. Deshmukh**  
Principal  
M.Sc., Ph.D.

Ref.No. SSSA C/IQAC/2022

Date: 31/8/2022

**Self Declaration**

This is to certify that, the information, reports, true copies of the supporting documents, numerical data, and weblinks furnished in this file are verified by IQAC and the head of the institution and found correct.

Hence this certificate is issued.

*Pochhi*  
**Dr. V. U. Pochhi**  
**Coordinator**  
IQAC, Shri Shivaji Sci. & Arts  
College, Chikhli Dist. Buldana



*Omraj Deshmukh*  
**Dr. Omraj S. Deshmukh**  
**PRINCIPAL**  
Shri Shivaji Science & Arts  
College, Chikhli, Dist. Buldana

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

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SR. No.	DEPARTMENT	SYLLABUS	CATEGORY	EVENTS
01	CHEMISTRY	NIL		Soil & water analysis
02	COMPUTER SCIENCE	NIL	Professional Ethics	Cryptocurrency
03	ELECTRONICS	NIL		
04	MATHEMATICS	NIL		
05	PHYSICS	1. B. SC. S. Y. SEM (III) UNIT VI ATMOSPHERE & GEOPHYSICS  2. B. SC. S. Y. SEM (IV) UNIT VI: RENEAWABLE ENERGY SOURCES	ENVIRONMENT	
06	BOTANY	1. F. Y. SEM (I) UNIT 1.3 DIVERSITY OF PLANTS WITH RESPECT TO HABITAT NUTRITION & ECOLOGICAL SYSTEM  2. S. Y. (III) UNIT 1 CONCEPT OF BIODIVERSITY  3. T. Y. (V) ECOLOGY & ENVIRONMENT	ENVIRONMENT	Ecofriendly rakhi preparation and celebration, Tree Plantation, Ecofriendly Ganesh idol Making, Seed Ball Preparation, Medicinal Plant Exhibition, Ecofriendly Colors Preparation, Field Visits
07	MICROBIOLOGY	1. B. SC. T. Y. SEM V ENVIRONMENTAL MICROBIOLOGY	ENVIRONMENT	World Tuberculosis Day
08	ZOOLOGY	1. B. SC. II (IV) UNIT 05 ECOLOGY  2. B. SC. II (IV) UNIT 06 ECOSYSTEM	ENVIRONMENT	World Tiger Day, World Ozone Day, Wildlife Week, World Sparrow Day, Birds Week, National Science Day
09	ENGLISH	1. B. A. I (I) PROSE 3 SPEECH ON...	HUMAN VALUES	
		2. B. A. I (I) POETRY 7 MIDDLE AGE	HUMAN VALUES	
		3. B. A. I (II)	HUMAN	

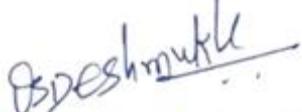
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		PROSE 4 : VALUES IN LIFE  4. B. A. I (II) POETRY 5: MONEY MADNESS	VALUES  HUMAN VALUES	
		B. COM. III SEM. V PROSE : 1. RATAN TATA 2. STEVE JOBS	PROFESSIONAL ETHICS	
		B. COM. II SE. IV PROSE 2 : FLORENCE NIGHTINGALE : LYTTON STRACHEY	GENDER	
		B. A. I PROSE : SPEECH ON INDIAN INDEPENDENCE : JAWAHARLAL NEHRU PROSE 4: VALUES IN LIFE  B. A. II 3. PROSE : THE HAPPY PRINCE  B. A. III PROSE 1. QUALITY  B.SC. I PROSE 4.: WATER THE ELIXIR OF LIFE – C. V. RAMAN	ENVIRONMENT	
10	ECONOMICS	NIL		World Population Day
11	MARATHI	1. B. A. II (IV) STRI PURUSH TULANA	GENDER	Gandhian Thought Exam, Mahanubhav Workshop, Exhibition of Saint Litureture
		3. B. A. II (III) ADNYAPATRA	ENVIRONMENT	
12	HISTORY	NIL		History Department Celebrated Hiroshima Day Every Year
13	POLITICAL SCIENCE	B. A. (I) UNIT 1 PREAMBLE – NATURE & IMPORTANCE	HUMAN VALUES	
		B. A. (I) UNIT WOMEN PARTICIPATION IN PANCHATRAJ OF MAHARASHTRA	GENDER	HUMAN VALUES Voters Awareness Rally,

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		M. A. (I) UNIT 1 RAJA RAM MOHAN ROY	GENDER	Student Parliament. Alumni Association celebrated Dahihandi Festival
		M.A. I SEM II UNIT 2: GENDER ISUUES	GENDER	
		UNIT 4: ENVIRNMNET ISSUES	ENVIRNMENT	
		UNIT 5 HUMAN RIGHTS	HUMAN VALUES	
14	COMMERCE	B.COM. Ii SEM (I) ACCOUNTS	HUMAN VALUES	Computer Science Department organized workshop on Ethical Hacking, Cryptocurrency and Workshop on Cyber Security
		PRINCIPALS OF ORGANIZATION	ENVIRNMENT	
		COMPUTER AND FUNDAMENTAL SYSTEMS	PROFESSIONAL ETHICS	



  
**Dr. Omraj S. Deshmukh**  
**Principal**  
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**English**  
**CLASS/SEM B.COM.-III SEM-V**  
**PROFESSIONAL ETHICS**  
**PROSE:1 RATAN TATA 2 STEVE JOBS**

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 135**

**Appendix - A**

*B.Com. III*  
*Semester- V*  
**Compulsory English**

*Time: 2 Hours*

*Marks: 40*

Prescribed Textbook : Horizons by Board of Editors Published by Orient Blackswan.

**CONTENTS**

<b>UNIT I : PROSE</b>		
SR. NO.	PROSE	AUTHOR
1	Ratan Tata	
2	Steve Jobs	
3	Vijay Bhatkar	
4	Black Money and the Black Economy	C. Rammanohar Reddy

<b>UNIT II : POETRY</b>		
1	A Red, Red Rose	Robert Burns
2	It is needless to ask the saint the caste to which he belongs	Kabir
3	Love's Philosophy	P.B. Shelly
4	The Garden	Andrew Marvell

<b>UNIT III : BUSINESS COMMUNICATION</b>		
Computer Technology & Recent Concepts in Business		
<ul style="list-style-type: none"><li>✓ Paperless office</li><li>✓ Video Conferencing</li><li>✓ E-Banking</li></ul>		
Communication Skills		
<ul style="list-style-type: none"><li>✓ Public Speaking (Strategies for Effective Speaking, Types of Speeches)</li></ul>		

**MARKING SCHEME**

**UNIT I : Prose** : Any THREE out of FOUR Questions ( $3 \times 4 = 12$  Marks )

**UNIT II : Poetry** : Any THREE out of FOUR Questions ( $3 \times 4 = 12$  Marks )

**UNIT III : Business Communication**:

Any TWO out of THREE Questions ( $2 \times 4 = 8$  Marks )

8 Multiple Choice Questions on Unit I & II ( $8 \times 1 = 8$  Marks)

**INTERNAL ASSESSMENT :**

Seminar Skill : 5 Marks

Home Assignment : 5 Marks

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COMMERCE

B.Com. Part-II  
Examination 2014

Prospectus No.2014152

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(FACULTY OF COMMERCE)

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वाणिज्य स्नातक भाग-२, परीक्षा २०१४  
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**Commerce**  
**Professional Ethics**  
**ACCOUNTS**

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**2. COMMERCE DISCIPLINE**

**(I) CORPORATE ACCOUNTING**

**Time : 3 Hours**

**Marks : 70**

**Objective:** This course enable the students to develop awareness about corporate accounting in conformity with the provisions of Companies Act.

**Unit-I** Issue, Forfeiture and Re-issue of shares.

**Unit-II** Final Accounts of Company : Manufacturing Account, Trading Account, Profit & Loss Account, Profit & Loss Appropriation Account & Balance sheet with Adjustment.

**Unit-III** 3.1 Liquidation of Company.  
1.2 Valuation of Goodwill and shares.

**Unit-IV** 4.1 Amalgamation and Absorption of Companies.  
1.2 Profit prior to incorporation.

**Unit-V** Funds Flow Statement : Concept of Fund, What is flow of Fund, Rules of Fund flow statement, Schedule of changes in working capital, Statement of sources and Application of Fund.

**BOOKS RECOMMENDED :**

- Gupta R.L., Radhaswamy M : Company Accounts; Sultan Chand and Sons, New Delhi.
- Maheshwari S. N. : Corporate Accounting; Vikas Publishing House, New Delhi.
- Monga J. R., Ahuja, Girish, and Sehgal Ashok : Financial Accounting; Mayur Paper Back, Noida.
- Shukla M. C., Grewal T. S. and Gupta S. C. : Advanced Accounts; S. Chand & Co., New Delhi.
- Moore C. L. and Jaedicke R. K. : Managerial Accounting; South Western Publishing Co., Cincinnati, Ohio.
- R.R.Gupta : Advanced Accountancy.
- Dr.Medha Kanetkar, Dr.D.R.Baheti : Corporate Accounting -Shri Salinath Prakashan, Nagpur.

**हिन्दी :**

- गुप्ता : एकाउन्ट्स एकाउन्ट्स.
- जे.के.अप्रधाल : बृहत लेखाकर्म.

**PRINCIPALS OF ORGANISATION**

**Professional Ethics**

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प्रा.लांजेवार, गुल्हाने, कडु : लेखाकर्म भाग-१ ; संगम प्रकाशन.

नाथ, लांजेवार, भागवत : उच्च लेखाकर्म भाग-१ ; महाराष्ट्र राज्य ग्रंथ निर्मिती मं.

प्रा.ए.एस.उखलकर : उच्च लेखाकर्म भाग-१ ; विद्या प्रकाशन.

रोडे, स्मार्थ, ढोन्वरे : प्रथम वर्ष जमाखर्च - खंड १ ; एस.चांद कं.लि.

### (III) PRINCIPLES OF BUSINESS MANAGEMENT

TIME : 3 Hours

Marks : 70

**Objective-** To develop the basic managerial skills among the students to face domestic as well as global business challenges.

#### Unit I: INTRODUCTORY

- 1.1 Business – Meaning, Nature, Scope & objectives.
- 1.2 Management Concept – Nature, Importance and Process.
- 1.3 Managerial Role & its importance.
- 1.4 Development of Management Science- F. W. Taylor, Fayol's Contributions.

#### Unit II: PLANNING

- 2.1 Planning- Concept & process.
- 2.2 Types of Planning.
- 2.3 Strategic planning- Meaning and Formulation.
- 2.4 Decision Making- Definition & process.

#### Unit III: ORGANIZING

- 3.1 Organizing- Concept & nature.
- 3.2 Authority and Responsibility.
- 3.3 Centralization & Decentralization- Concept, Advantages & Disadvantages.
- 3.4 Organization structure- Forms and contingency factors.

#### Unit IV: DIRECTING

- 4.1 Motivation - Meaning, Importance, Type of Motivation, Maslow theory.
- 4.2 Incentive- Concept, Financial and Non financial Incentives.
- 4.3 Moral - Meaning and Importance.
- 4.4 Communication- Meaning, Verbal and Non verbal Communication, Barries to communication.

#### Unit V: CONTROLLING

- 5.1 Concept and process of control.
- 5.2 Techniques of controls.
- 5.3 Effective Control Systems
- 5.4 Leadership- Concept, Theories and style.

### COMPUTER AND FUNDAMENTAL SYSTEMS PROFESSIONAL ETHICS

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**Reference books:**

- \* Management Concept and Practices, by Manmohan Prasad, Himalaya Publishing House.
- \* Essentials of Management by Weihrich and Koonts. Tata McGraw Hill.
- \* Management Concept & Principles, by Manmohan Prasad, Himalaya Publication.
- \* Management by Stonel & Foceman. Prentice Hall of India.
- \* Fundamentals of Management by Robbins. Pearson Education.
- \* Management Principles and Practices, by Prasad, Lallan & Gulshan.S.Chand.
- \* व्यवसाय व्यवस्थापनाचे सिध्दांत - Prof. S.M.Kolte, Pimpalapure & Co. Publishers, Nagpur.
- \* व्यवसाय प्रबंधनाची मुलतत्वे : डॉ. आनंद दत्तात्रय भोसले - नम प्रकाशन, शाम नगर, अमरावती.
- \* Principles of Business Management : L.N. Chopde, D.H. Choudhary, Dr. Raju L. Rathi - Sheth Publishers Pvt. Ltd. Mumbai-31

**(IV) COMPUTER FUNDAMENTALS AND OPERATING SYSTEM**

Time:3 Hours

Marks:100

**(60 Marks for theory + 40 Marks for Practical)**

**Objective:** The objectives of this course are to provide basic information of computer, Word Processing and Presentation.

<b>Unit-I</b>	<p><b>Fundamentals of Computer :</b></p> <p><b>Introduction:</b> Definition of Computer, Evolution of Computer, Characteristics of Computer, Generations of Computer, Types of Computer (By Logic and By size).</p> <p><b>Basic Computer Organization :</b> Computer Block Diagram, Input Unit, Output Unit and CPU: Memory Unit, Arithmetic Unit, Control Unit.</p>
<b>Unit-II</b>	<p><b>Storage :</b> Primary Storage : Concept of Memory, RAM, Read-Write: SRAM,DRAM; Read-Only: ROM, PROM and EPROM.</p> <p><b>Secondary Storage :</b> Concept of Secondary Storage, Secondary Storage, Devices: Magnetic Tape, Magnetic Disk, Floppy Disk, Hard disk, Compact disk, Optical Disk, Pen drive, Memory card, Data Card.</p> <p><b>Software :</b> Concept of Software, Types of Software : Application Software &amp; System Software.</p> <p><b>Languages :</b> Concept of Computer Languages, Machine Language, Assembly Language, High Level Language, 4<sup>th</sup> Generational Languages.</p>

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**Unit-III** **Operating System : Concept of Operating System.**

**MS-DOS :** Introduction to MS-DOS, MS-DOS Commands : **Internal Commands :** DIR, COPY, DEL, TYPE, REN, CD, MD, RD, PROMPT, COPY CON; **External Commands :** FORMAT, DISKCOPY, X-COPY, BACK UP, RESTORE, CHKDSK, PATH, ATTRIB, EDIT.

**Window : Window XP/Vista :** Introduction to Windows, Features of Windows, Types of Windows : Application Window, Document Window & Dialog box, Desktop, Icons : My Computer, My Documents, Recycle Bin, Internet Explorer, Task Bar, Properties, Management of the Files & Folders.

**Unit-IV** **MS Word 2003/2007/Higher :** Concept of Word processing, **Working With MS-WORD:** MS-Word Screen, Working with Menus, Creating and Saving Document, Formatting Text and Document Setup, Header & Footer, Creating tables and chart, Inserting Clip Arts, Links, Text Box, Word Arts, Drop Cap, Mail Merge, Printing a Document.

**Unit-V** **Ms PowerPoint 2003/2007/Higher :** Concept of Presentation, MS-PowerPoint Screen, Creating, Saving and Opening presentations, Adding text, Clips & Word Art to Slides, Working with different Slide Views, Background features, Gallery, Color Layout, Slide Effects & Slide Show, Saving and Printing.

#### **BOOKS RECOMMENDED :**

1. Fundamentals of Computers-V Rajarman (PHI)
2. Computer Fundamentals- B.Ram (WE)
3. Introduction to IBMPC & Applications-Taxali.
4. MS-OFFICE (PHI)
5. MS-OFFICE (BPB)
6. MS-OFFICE (TMH)
7. Yeats: Systems Analysis & Design; Macmillan India, New Delhi.
8. Basics of Computer and Business Mathematics, By Dr. Rajiv Ashtikar, Dr.Santosh Sadar and Prof. Vilas Chopade: Payal Prakashan, Nagpur.
9. Computer Fundamentals & Operating System : Supriya Bhagade-Pimpalapure & Co. Pub., Nagpur.
10. संगणक मूलतत्वे आणि चलन प्रणाली- Prof. S.M. Kolte, Pimpalapure & Co. Publishers, Nagpur.

## **English**

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**CLASS/SEM B. COM. II SEM IV**  
**GENDER**  
**PROSE 2 : FLORENCE NIGHTINGALE : LYTTON STRACHEY**

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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 97

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**Unit V Formulas, Functions and Chart in Excel:**

Introduction to Formulas, Functions and Categories of Functions.

**Working with Common Excel Functions:** TODAY, DATEDIF, NOW, UPPER, LOWER, PROPER, CONCATENATE, AVERAGE, MAX, MIN, COUNT, COUNTBLANK, COUNTIF, SUM, SUMIF, AUTOSUM, IF

**Chart in Excel:** Introduction, Types, Creating and formatting a Chart Displaying, Saving & Printing.

**Books Recommendation:**

- \* Microsoft Office Excel 2007 Free Text Book at BOOKBOON.COM
- \* Curtis D. Fry "Microsoft Excel 2007 Step by Step" Published by Microsoft Press
- \* MS OFFICE (BPB)
- \* Pradeep K. Sinha and Priti Sinha's "Fundamentals of Computing" BPB Publication.
- \* Alexis Leon and Mathews Leon's Fundamentals of Information Technology "Published by Leon Vikas.
- \* **Practical Based on Microsoft Excel**

\*\*\*\*

Appendix - M

**B.Com Part-II**  
**SEMESTER-IV**  
**ENGLISH (COMPULSORY)**

**Time :- 2 Hours**

**Marks :- 40**

**I) Text Prescribed -**

**Impressions**

(An Anthology of Prose and Poetry) Published by Raghav Publishers & Distributors, Nagpur.

**Unit- I :- Prose**

1) The Town Week	-	E V. Lucas
2) Florence Nightingale	-	Lytton Strachey
3) The Gift of Magi	-	O Henry
4) Three Hermits	-	Leo Tolstoy

**Unit-II :- Poetry**

1) On His Blindness	-	John Milton
2) Solitude	-	Alexander Pope
3) Still I Rise	-	Maya Angelou
4) Money Madness	-	D.H.Lawrence

**2) Book Prescribed :-**

**'Synergy'**

(Communication in English and Study Skills Ed. by Orient Black Swan.

Following chapters from Communication Skills are prescribed :-

- 1) Interview and Interviewing skills.
- 2) Meeting skills
- 3) Nonverbal Communication.

**POLITICAL SCIENCE**

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## CLASS/SEM B.A.-I SEM-I Gender Sensitization

### UNIT 5 : I) WOMEN PARTICIPATION IN PANCHYATRAJ OF MAHARASHTRA

- 79 -

19. महाराष्ट्रातील पंचायत राजांनी यांत्रात : डॉ. राजेश गवई, प्रशांत विठ्ठे या प्रा. सुनिल शक्ते, देशमुद्दा प्रकाशन, अमरावती.  
20. भारतीय संविधानिक सरतुली आणि : डॉ. शताराम घकाण, देशमुद्दा प्रकाशन, अमरावती स्थानिक स्वशासन

\*\*\*\*\*

#### Semester-II (B.A.-I) Indian Constitutional Provisions and Local Self Government

Theory : 80  
Int.Ass.: 20

**Unit-I** i) Election Commission of India : Structure, Function and Powers.  
ii) Electoral Reform, Recognition of Political Parties.  
iii) Eligibility of Voter – Lok Sabha, Vidhan Sabha and Vidhan Parishad.

**Unit-II State Executive**

i) Governor : Appointment, Powers and Role.  
ii) Chief Minister : Appointment, Role and Function  
iii) Council of Ministers : Formation, Role and Function

**Unit-III State Legislature of Maharashtra :**

i) Legislative Assembly (Vidhan Sabha) – Structure, Powers and Function.  
Speaker of Vidhan Sabha – Powers and Function  
ii) Legislative Council (Vidhan Parishad) – Structure, Powers and Function

**Unit-IV Local Self Government of Maharashtra :**

i) Types of Local Self Government (Urban and Rural)  
ii) Municipal Corporation - Structure and Power  
iii) Gram Panchayat – Structure and Function.  
iv) Gram Sabha - Structure and Function.

**Unit-V**

i) Women's Participations in Panchayati Raj of Maharashtra.  
ii) Nagpur Pact for Samyukt Maharashtra  
iii) Right to Information and its Importance

**Distribution of Internal Marks**

i) Seminar	...	10 Marks
ii) News Papers Cutting Collection	...	10 Marks

**Reference Books :**

1. D.D. Basu : "An introduction to the Constitution of India : New Delhi Prentice Hall, 1994
2. Joshi, G.N. : The Constitution of India
3. PyLee, M.V. : Indian Constitution
4. D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
5. प्रा.बी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.भ.शृंगारपुरे : भारतीय संविधान
8. प्रा.भ.ग.धांगरेकर : भारतीय राज्यधट्टना, स्वरूप आणि राजकारण
9. डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
10. प्रा.राम मुठाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
11. प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिपळापूरे ऑन्ल के. पब्लीशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
13. भारताचे शासन आणि राजकारण : प्रा.श.हाशम, डॉ. जोगेंद्र गवई.

## POLITICAL SCIENCE

### CLASS/SEM M.A.-I SEM-I

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

## Gender Sensitization

### UNIT 1 RAJA RAM MOHAN ROY

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -381

#### Unit – IV – Account and Audit

Book keeping – meaning, importance and advantages, format of trading account, profit and loss account, balance sheet – meaning and definition, objectives and importance of audit , various types of audit , role of cooperative auditor

#### Unit-V Cooperative Legislation In India

Formation Of M.S. Cooperative act – 1960: Registration, bylaws, membership, capital. Meeting, meeting notice, minutes and method of resolution. 97<sup>th</sup> constitutional amendment and main changes in Maharashtra cooperative societies act, national cooperative union of India (NCUI). Cooperative processing women Empowerment

#### Books Recommended :

- 1) Kulkarni R.K. – Theory and Practice cooperation in India and Abroad Volume – I,II,III,
- 2) Batliboi J. Advanced Accounting
- 3) Shah Rupa and Damji B.H. – Cooperation (Marathi), Fadke Prakashan, Kolhapur
- 4) Mammoria C.B. and Saxena R.D. Cooperation In India
- 5) प्रा.गवळे राजेंद्र आर. - सहकारी तत्वे, ज्योतीचंद्र पब्लीकेशन, लातूर.
- 6) प्रा.ए.आर.रायखेलकर व प्रा.अशोक डांगे - सहकार तत्वे आणि व्यवहार.
- 7) घानेकर विद्या - सहकार कायदा.
- 8) जाधव टी.एस. - सहकारी संस्थांचे संरचना व कायदे

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#### Appendix-C

##### Syllabi for M.A. Part-I

##### Semester-I (Paper-I)

##### Political Thought in Modern India (Implemented From 2017-2018 Session)

Marks : Theory – 80

In.Ass – 20

#### Unit-I Raja Ram Mohan Roy :

- a) Liberalism
- b) Critique on Religion
- c) Views on Individual Freedom
- d) Law and Judicial System

#### Unit-II Mahatma Gandhi :

- a) Ahimsa
- b) Satyagrah
- c) Trusteeship
- d) Ramrajya

#### Unit-III Dr. Babasaheb Ambedkar :

- a) Liberalism
- b) Parliamentary and Social Democracy
- c) State Socialism, Economic Socialism
- d) Liberty, Equality, Fraternity and Social Justice.

#### Unit-IV Jawaharlal Nehru :

- a) Foreign Policy
- b) Secularism
- c) Democracy
- d) Socialism

#### Unit-V Dr. Panjabrao Deshmukh :

- a) Views on Education
- b) Views on Agriculture
- c) Views on Caste Eradication –  
i) Satyashodhak Movement, ii) Shraddhanand Hostel & iii) Ambadevi Temple Movement.

## Marathi

### CLASS/SEM B.A.-II SEM-IV

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

**Gender Sensitization**  
**STRI PURUSH TULANA**

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 153**

विभाग ब) ललित

१)	आज्ञापत्र	रामचंद्रपत अमात्य
२)	माझे दत्तक वडील	वि. वि. जोशी
३)	दिवस असे होते	दया पवार

विभाग क) कविता

१)	संतवाणी	अ) योस्याभेळा ब) सोयराबाई
२)	अरवेर कमाई	कुसुमाप्रज्ञ
३)	पास्वरे	केशव भेश्वाम
४)	जाते	श्रीकांत देशमुख
५)	सात बाराची नोंद	तनकमण महाडिक
६)	शांतता	सिंधार्थ भगत

विभाग ढ) व्यावहारिक मराठी

१)	यसुत्त्व कला	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. केतकी मोळक व इसर. पद्मरांधा
२)	सूत्रसंचालन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २३ वे	प्रकाशन, पुणे

बी. ए. भाग २ - मराठी (आवश्यक)
सत्र - ४

विभाग अ) वैधारिक

१)	स्त्री-पुरुष तुलना	ताराबाई शिंदे
२)	आरती	भैरवी भाऊ नारायण
३)	विज्ञानयुगात भारत	जयंत नारळीकर

विभाग ब) ललित

१)	गाडगेबाबाच्या कीर्तनाले तस्याशान	प्रबोधनकार के.सी. ठाकरे
२)	समशानातील सोने	अणा भाऊ साठे
३)	स्त्रीवादी चलवळीने आम्हाला आमच्या अस्तित्वाची जाणीव दिली	विद्युत भागवत

विभाग क) कविता

१)	संतवाणी	अ) एकनाथ ब) कान्होपात्रा
२)	सारेच दीप करो मंदावले आता	अनिल
३)	जिवलगा	शांता शेळके
४)	जागजागी	भ.मा. परसावळे
५)	येट्यु नका देश	मिळां रप्ती अहमद वेग
६)	माती	राजेश महल्ले

विभाग ढ) व्यावहारिक मराठी

१)	माहितीपत्रक	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ५ वे	संपा. केतकी मोळक व इसर. पद्मरांधा प्रकाशन, पुणे
२)	निमंत्रणापत्रिका व कार्यक्रमपत्रिका	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १० वे	

**ENGLISH**  
**HUMAN VALUES**

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

**CLASS/SEM B.A.-I SEM-I**  
**1. PROSE 3 SPEECH ON INDIAN INDEPENDENCE**  
**7. MIDDLE AGE**

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE**

Official Publication of Sant Gadge Baba Amravati University



**PART – TWO**

Thursday, the 15<sup>th</sup> June, 2017

**NOTIFICATION**

No. 40/2017

Date : 15 June, 2017

**Subject :** Implementation of Syllabi of Various Courses / Subjects as per Semester and Credit Grade System in the Faculty of Humanities from the session 2017-2018 and Onwards.

It is notified for general information of all concerned that, the authorities of the University has accepted of Semester & Credit Grade System syllabi of various Courses/ Subjects of B.A. Part-I Semester-I & Semester – II mentioned in column No.2 and which is to be implemented stagewise from the session 2017-2018 and onwards, with appendices as shown in column No.3 of the following table.

**TABLE**

Sr.No.	Course / Subjects	Appendices of the New Syllabi
1	2	3
<b>B.A. Part-I Semester – I &amp; II</b>		
1.	English	The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplementary English which is appended herewith as Appendix-A
2.	Marathi	The Syllabi prescribed for the subject Compulsory Marathi, Marathi Literature, which is appended herewith as Appendix-B
3.	Hindi	The Syllabi prescribed for the subject Compulsory Hindi, Hindi Literature, & Prayojanmulak Hindi which is appended herewith as Appendix-C
4.	Sanskrit	The Syllabi prescribed for the subject Compulsory Sanskrit & Sanskrit Literature, which is appended herewith as Appendix-D
5.	Urdu	The Syllabi prescribed for the subject Compulsory Urdu & Urdu Literature, which is appended herewith as Appendix-E
6.	Persian Literature	The Syllabi prescribed for the subject Persian Literature which is appended herewith as Appendix-F
7.	Pali & Prakrit	The Syllabi prescribed for the subject Compulsory Pali & Prakrit & Pali Literature which is appended herewith as Appendix-G
8.	Music	The Syllabi prescribed for the subject Indian Music which is appended herewith as Appendix-H

Sd/-  
Registrar  
Sant Gadge Baba Amravati University

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -76**

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

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT : 20 MARKS

Prescribed Textbook : *Blooming Buds* by Board of Editors & published by Orient Blackswan.

UNIT I

PROSE -

1. Education Provides a Solid Foundation - A.P.J Abdul Kalam

2. Love Story - M. T. Vasudevan Nair

3. Speech on Indian Independence - Jawaharlal Nehru

UNIT II

POETRY -

5. In the Bazaar of Hyderabad - Sarojini Naidu

6. She Walks in Beauty - Lord Byron

7. Middle Age - Kamala Das

GRAMMAR -

8. Parts of Speech

9. Tenses

UNIT IV

COMMUNICATION SKILLS -

10. Unseen Passage

11. Letter Writing (Personal & Business Letters)

12. Curriculum Vitae (CV)

UNIT V

MULTIPLE CHOICE QUESTIONS -

Based on the prescribed text Unit I & II only.

INTERNAL ASSESSMENT

i) Viva- Voce

a) Personal Interview

b) Seminar

ii) Assignments

a) Making Introduction

b) Greeting People

c) Talking about Family

d) Describing People, Places & Animals

e) Expressing Feelings

f) Inviting, Suggesting, Accepting & Refusing

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

(2)

**CLASS/SEM B. A.-I SEM-II**  
**HUMAN VALUES**  
**PROSE 4 VALUES IN LIFE**

--9--

SYLLABUS  
PRESCRIBED FOR  
B. A. - Part I EXAMINATION  
Semester II  
Compulsory English

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT : 20 MARKS

Prescribed Textbook : Blooming Buds by Board of Editors & published by Orient Blackswan.

**UNIT I**

**PROSE -**

1. Appro JRD - Sudha Murthy
2. Packing - Jerome K. Jerome
3. How I became a Public Speaker - G. B. Shaw
4. Values in Life - Rudyard Kipling

**POETRY -**

5. Money Madness - D.H Lawrence
6. No men are foreign - James Kirkup
7. Another's sorrow - William Blake

**UNIT III**

**GRAMMAR -**

8. Subject, Verb, Agreement
9. Verbs : Forms of to be, do, have and model auxiliaries

**UNIT IV**

**COMMUNICATION SKILLS -**

10. Story building
11. E-Communication : E-Mail, Fax
12. Notices / Agenda / Minutes

**UNIT V**

**MULTIPLE CHOICE QUESTIONS -**

Based on the prescribed text Unit I & II only.

F) Internal Assessment

i) Viva- Voce

a) Reading Skills (Reading aloud – Individual of a passage of about 100 words from the prescribed text)

b) Group Discussion

ii) Assignments

a) Asking for & Giving Information

b) Giving Directions

c) Making Request

d) Making Offers

e) Getting & Giving Permissions

f) Talking about Past Events

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

**CLASS/SEM B.A.-I SEM-II  
HUMAN VALUES  
POETRY 5 MONEY MADNESS**

..9..

**SYLLABUS  
PRESCRIBED FOR  
B. A. – Part I EXAMINATION  
Semester II  
Compulsory English**

**TIME : 3 HOURS**

**MAX MARKS THEORY : 80 MARKS**

**MAX MARKS INTERNAL ASSESSMENT : 20 MARKS**

**Prescribed Textbook : Blooming Buds by Board of Editors & published by Orient Blackswan.**

**UNIT I**

**PROSE –**

1. Appro JRD - Sudha Murthy
2. Packing - Jerome K. Jerome
3. How I became a Public Speaker – G. B. Shaw
4. Values in Life - Rudyard Kipling

**UNIT II**

**POETRY**

5. Money Madness - D.H Lawrence
6. No men are foreign - James Kirkup
7. Another's sorrow - William Blake

**UNIT III**

**GRAMMAR –**

8. Subject, Verb, Agreement
9. Verbs : Forms of to be, do, have and modal auxiliaries

**UNIT IV**

**COMMUNICATION SKILLS –**

10. Story building
11. E-Communication : E-Mail, Fax
12. Notices / Agenda / Minutes

**UNIT V**

**MULTIPLE CHOICE QUESTIONS –**

Based on the prescribed text Unit I & II only.

F) Internal Assessment  
I) Viva- Voce

- a) Reading Skills (Reading aloud – Individual of a passage of about 100 words from the prescribed text)
- b) Group Discussion
- II) Assignments
- a) Asking for & Giving Information
- b) Giving Directions
- c) Making Request
- d) Making Offers
- e) Getting & Giving Permissions
- f) Talking about Past Events

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

**English**  
**Human Values**  
**CLASS/SEM B.A.-I SEM-II**  
**PROSE 4: VALUES IN LIFE**

(2)

...9...

**SYLLABUS**  
PRESCRIBED FOR  
B. A. - Part I EXAMINATION  
Semester II  
Compulsory English

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT : 20 MARKS

Prescribed Textbook : Blooming Buds by Board of Editors & published by Orient Blackswan.

**UNIT I**

**PROSE -**

1. Appro JRD - Sudha Murthy
2. Packing - Jerome K. Jerome
3. Money Madness - D.H Lawrence
4. Values in Life - Rudyard Kipling

**UNIT II**

**POETRY -**

5. Money Madness - D.H Lawrence
6. No men are foreign - James Kirkup
7. Another's sorrow - William Blake

**UNIT III**

**GRAMMAR -**

8. Subject, Verb, Agreement
9. Verbs : Forms of to be, do, have and modal auxiliaries

**UNIT IV**

**COMMUNICATION SKILLS -**

10. Story building
11. E-Communication : E-Mail, Fax
12. Notices / Agenda / Minutes

**UNIT V**

**MULTIPLE CHOICE QUESTIONS -**

Based on the prescribed text Unit I & II only.

F) Internal Assessment

i) Viva- Voce

a) Reading Skills (Reading aloud – Individual of a passage of about 100 words from the prescribed text)

b) Group Discussion

ii) Assignments

a) Asking for & Giving Information

b) Giving Directions

c) Making Request

d) Making Offers

e) Getting & Giving Permissions

f) Talking about Past Events

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

**CLASS/SEM B.A.-II SEM-III**  
**HUMAN VALUES**  
**3. PROSE : THE HAPPY PRINCE**

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**Appendix-A**

**SYLLABUS  
PRESCRIBED FOR  
B.A - PART II EXAMINATION  
SEMESTER III  
COMPULSORY ENGLISH**

**TIME : 3 HOURS**

**MAX MARKS THEORY : 80 MARKS  
MAX MARKS INTERNAL ASSESSMENT : 20 MARKS**

Prescribed Textbook : *Blossoming Flowers* by Board of Editors, Published by Orient Blackswan.

**UNIT I**

**PROSE -**

- 1. India's Message to the World – Swami Vivekanand
- 3. The Happy Prince – Oscar Wilde

**UNIT II**

**POETRY -**

- 5. Sonnet 116 – William Shakespeare
- 6. Dirge – James Shirley
- 7. Leisure – W H Davies
- 8. A Baby Asleep After Pain – D.H Lawrence

**UNIT III**

**GRAMMAR :**

9. Clauses :

- ✓ Main Clause
- ✓ Subordinate Clause (Noun Clause , Adverb Clause , Adjective Clause)

10. Types of Sentences :

- ✓ Assertive/ Affirmative Sentences
- ✓ Exclamatory Sentences
- ✓ Negative Sentences
- ✓ Interrogative Sentences
- ✓ Simple Sentences
- ✓ Compound Sentences
- ✓ Complex Sentences
- ✓ Compound Complex Sentences

**UNIT IV**

**COMMUNICATION SKILLS :**

11. Telephone Conversation

- ✓ Answering the Telephone and Asking for Someone
- ✓ Taking and Leaving Messages
- ✓ Making Enquiries on the Phone

12. Interpersonal Conversation

- ✓ Getting People's Attention and Interrupting
- ✓ Making Requests and Responding to Them
- ✓ Asking for Directions and Giving Directions

**UNIT V**

**MULTIPLE CHOICE QUESTIONS**

Based on prescribed text Unit I & II only  
**Internal Assessment :**

**Viva-Voce**

**A) Personal Interview**

**B) Seminar - Presentation (Based on prescribed text : Prose & Poetry)**

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

**CLASS/SEM B. A.-III SEM-VI**  
**HUMAN VALUES**  
**PROSE 1. QUALITY**

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**UNIT III (16 Marks)**

**C) POETRY:** Prescribed Text *Sands of Time* by Board of Editors & published by Orient Blackswan  
i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks  
ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

**UNIT IV (16 Marks)**

**WRITING SKILLS**

1. **Précis Writing :** i) The students shall have to write a précis of the given paragraph with suitable title for 08 marks
2. **Developing a Thought:** i) The students shall have to develop a thought, choosing one of the two in about 250 words for 08 marks

**UNIT V (16 Marks)**

**E) Multiple Choice Questions (MCQ)**

Based on Unit I, II & III: The students shall have to attempt multiple choice questions= 16 Marks

**F) Internal Assessment**

- i) **Viva- Voce** = 20 Marks
- a) Personal Interview = 10Marks
- b) Seminar - Presentation = 10 Marks

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**SYLLABUS**

**PRESCRIBED FOR**

**BA – PART III EXAMINATION**

**SEMESTER VI**

**COMPULSORY ENGLISH**

**TIME : 3 HOURS**

**MAXIMUM MARKS THEORY : 80 MARKS**  
**MAXIMUM MARKS INTERNAL ASSESSMENT: 20 MARKS**

Prescribed Textbook: *Sands of Time* by Board of Editors, Published by Orient Blackswan.

**UNIT I**

1. Quality – John Galsworthy
2. MISS BRIM – Catherine Evansfield

**UNIT II**

**ESSAYS:**

1. My Financial Career -Stephen Leacock
2. Socrates and the Schoolmaster – FL Brayne

**UNIT III**

**POETRY:**

1. The Solitary Reaper- William Wordsworth
2. Stay Calm -Grenville Kleiser

**UNIT IV**

**WRITING SKILLS:**

1. **Report Writing :** i) The students shall have to write a Report on the given topic in about 250 words for 08 marks
2. **Essay :** i) The students shall have to write an essay, choosing from the four given topics in about 250 words for 08 marks

**UNIT V**

**MULTIPLE CHOICE QUESTIONS**

Based on Prescribed Text: Unit I, II & III

**Internal Assessment:**

**Viva- Voce**

**A) Personal Interview**

**B) Seminar - Presentation (Based on Prescribed Text : Short Stories, Essay & Poetry)**

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

## POLITICAL SCIENCE

### CLASS/SEM M.A.-I SEM-II

#### Unit 2: Gender Sensitization Unit 4: Environment and Sustainability Unit 5 Human Rights

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##### Reference Books :

1. P. Allan and K. Goldman (Eds.), The End of the Cold War, Dordrecht, Martinus Nijhoff, 1992.
2. A Appadurai, National Interest and Non-Alignment, New Delhi, Kalinga Publications, 1999.
3. R. Aron, Peace and War : A Theory of international relations, London, Fontana, 1966.
4. R. Axelrod, the Evolution of Co-operation, New York, Basic Books, 1984.
5. D.A. Baldwin (Ed.), Neo-realism and Neo-liberalism, New York, Columbia University Press, 1993.
6. J.C. Bennett (Ed.), Nuclear Weapons and the Conflict of Conscience, New York, Charles Scribner's Sons, 1962.
7. D.G. Brennan (Ed.), Arms Control, Disarmament and National Security, New York, George Braziller, 1961.
8. K. Von Clausewitz, War, Politics and Power : Selections, Chicago, Henry Regnery Company, 1962.
9. दूरीसंतुलित देशव्यवस्था - राष्ट्रीय आंतरराष्ट्रीय राजनीकी, विद्या कुर्सी प्रकाशन, अंग्रेजीवाद.
10. दूरीसंतुलित देशव्यवस्था - अंतरराष्ट्रीय राजनीकी, प्रशासन, प्रकाशन, अंग्रेजीवाद.
11. प्रा. वराङ्ककर - अंतरराष्ट्रीय राजनीकी.
12. C. Elman and M.F. Elman (Ed.), Bridge and Boundaries : Historians, Political Scientists and the Study of International Relations, Massachusetts, MIT Press, 2001.
13. F.I. Greenstein and N.W. Polsby, Theory of International Relations, Reading Massachusetts, Addison-Wesley, 1979.
14. S.H. Hoffman, Essays in Theory and Politics of International Relations, Boulder Colorado, Westview Press, 1989.
15. K.P. Karunakaran, India in World Affairs Vols. 2, Delhi, Oxford University Press, 1952.

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#### Semester-II (Paper-IV) Major Issues in Contemporary World Politics

Marks : Theory – 80  
In. Ass – 20

**Unit-I** End of Cold War World : Meaning, Factors leading to the end of Cold War. Unipolarity and Diffusion in Regional Power Centres.

**Unit-II** North-South Dialogue and South-South Dialogue and their Major Issues.  
– Gender Issues : Theories, Conference, Impact of World Politics.

**Unit-III** Globalization : Meaning, Theory, its Advantages and Disadvantages, Role of International Organizations, Nature of State.

**Unit-IV** Environmental Issue : Environmental Degradation as Global Concerns its effects, Steps taken for Environmental Protection at International Level : Stockholm to Paris.

**Unit-V** Terrorism : Meaning, Factors which give rise to Terrorism, Types of Terrorism, Effects of Terrorism on international Politics.  
– Human Rights : Meaning Nature and UDHR, Critically Examine of Human Rights.

##### DISTRIBUTION OF INTERNAL MARKS

i) Seminar	... 10 Marks
ii) Educational Study Tour	... 10 Marks
(a) Compulsory Report Writing – 05 Marks	
(b) Interview of Local Leader - 05 Marks	

##### Reference Books :

1. S.P. Varma, International System and Third World, New Delhi, Vikas Pub., 1988.
2. Vinaykumar Malhotra - International Relation.
3. Ghosh, Peu – International Relation, PHI Learning Pvt. Ltd., Delhi, 2009.
4. Prem Arora – Comparative Politics and International Relations, Bookhives, New Delhi.
5. Kashikar, M.S. – SAARC : Its Genesis, Development & Prospects, Himalaya Publishing House, Mumbai, 2000.
6. P. Allan & Goldman (Ed.), The End of the Cold War, Dordrecht, Martinus Nijhoff, 1992.
7. A. Appadurai – National Interest and Non-Alignment, New Delhi, Kalinga, Publication, 1999.
8. R. Aron, Peace and War : A Theory of international relations, London, Fontana, 1966.
9. S. Burchill Et. Al., - Theories of International Relations, Hampshire, Macmillan, 2001.
10. I. Claude – Power and International Relations, New York, Random House, 1962.
11. A.A. Couloumbis & Wolf – Introduction to International Relations : Power and justice, New York, Praeger, 1989.
12. K.W. Deutsch – The Analysis of International Relations, New Delhi, Prentice Hall, 1989.

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

**POLITICAL SCIENCE**  
**Human Rights**  
**CLASS/SEM B.A.-I SEM-I**  
**UNIT 1 ii) PREAMBLE – NATURE AND IMPORTANCE**

-78-

(H)

**Syllabi for B.A. Part-I**  
**Semester-I**  
**Subject : Political Science**  
**(Implemented From 2017-2018 Session)**  
**Indian Constitutional Provisions and Local Self Government**

Marks : Theory – 80  
 In Ass – 20

**Unit-I**

- i) Salient features of the Indian Constitution.
- ii) Preamble – Nature and Importance.**
- ✓ iii) Fundamental Rights – types and importance.

**Unit-II**

- ✓ i) Directive Principles of State Policy – Nature and Importance
- ✓ ii) Fundamental Duties.
- ✓ iii) Methods to acquire Citizenship.

**Unit-III**

- i) President of India : Election Process, Powers and Function.
- ii) Vice President : Role and Function.
- iii) Prime Minister – Appointment, Role and Function.

**Unit-IV**

- i) Parliament : Lok Sabha and Rajya Sabha – Structure and Powers
- ii) Speaker of Lok Sabha - Powers & Function.

**Unit-V**

- i) Structure of Indian Judiciary. Types of Court, Characteristics of Indian Judiciary
- ii) Supreme Court of India – Structure, Powers and Function
- iii) High Court - Structure, Powers and Function.

**Distribution of Internal Marks**

i) Seminar	...	10 Marks
ii) News Papers Cutting Collection	...	10 Marks

**Reference Books :**

1. D.D. Basu : "An introduction to the Constitution of India : New Delhi Prentice Hall, 1994
2. Joshi, G.N. : The Constitution of India
3. PyLee, M.V. : Indian Constitution
4. D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
5. प्रा.वी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.म.कृगारपूरे : भारतीय संविधान
8. प्रा.म.धारारेकर : भारतीय राज्याधटना, स्वरूप आणि राजकारण
9. डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
10. प्रा.राम मुठाळ : भारतीय राजकीय व्यवस्था, अंगठुल प्रकाशन, नागपूर.
11. प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिपळापूरे अँन्ड कं. पट्टीशासं.
12. प्रा. वी.टी. देशमुख : भारतीय संविधान व रावरांत्र्य आदोलन,
13. भारताचे शासन आणि राजकारण : प्रा.शे.हाशम, डॉ. जोगेंद्र गवई.
14. भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
15. भारतीय राजकारणाची संवैधानिक गिमांसा : ले. डॉ. यामन गवई.
16. भारतीय संविधान व शासन व्यवस्था : लेखक - डॉ. शांताराम घड्काण
17. भारतीय संविधानात्मक लरतुदी आणि यास्तव्य : लेखक - डॉ. सुभाष गवई
18. भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम घड्काण व डॉ. सुभाष गवई, वेदमुदा प्रकाशन, अमरावती

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



**Reference Books :**

1. T. M. Karade, M. S. Bendre :Lectures on Mechanics, Sonu-Nilu Publication, Nagpur.
2. H. Goldstein : Classical Mechanics ( 2<sup>nd</sup> edition), Narosa Publishing House, New Delhi.
3. S. L. Loney : Statics, Mc-Millan and co., London.
4. R. S. Verma : A Text Book on Statics, Pothishala Pvt. Ltd. , Allahabad.
5. S. L. Loney :An Elementary Treatise on the Dynamics of a particle and of rigid bodies, Cambridge University Press, 1956.
6. D. K. Daftari, V. N. Indurkar : Elements of Statics, Published by Dattsons, J. Neharu Marg, Nagpur.
7. M. A. Pathan : A modern Text Book of Statics, Pragati Prakashan, Nagpur.

**2. PHYSICS**  
**3S PHY**

**Unit I : Mathematical background and Elecrostatics (12)**

Gradient, divergence and curl of a vector fields and their physical significance, line surface and volume integral. Gauss divergence theorem , Stocks theorem. Work done on charge in electrostatic field, flux of electric field, force on moving charge, Lorentz force equation and definition of B. Ampere's force law, Ampere's Law and its applications.

**Unit II : Magnetostatics and Maxwell's Equations (12)**

Faraday's Law, Integral and differential form of faraday's law, displacement current and Maxwell's Equation , wave Equation satisfied by E and B. Plane electromagnetic wave in vacuum, Poynting vector and Poynting theorem.

**Unit-III : Solid State Electronics Devices-I— (12)**

Physics of semiconductors : Introduction to semiconductors ; Charge carriers & electrical conduction through semiconductors ; Doping , extrinsic semiconductors ; Fermi level & energy level diagrams ; Drift current in

semiconductor , mobility, conductivity ; Hall effect, Hall coefficient, Semiconductor diode & its biasing, LED, Varactor diode.

**Unit-IV : Solid State Electronics Devices-II – (12)**

Introduction to BJT ; working of BJT ; modes of operation; Current gains  $\alpha$  and  $\beta$ , their relation ; CB & CE characteristics ; JFET- construction & working , characteristics of FET ; Basic concept of Difference amplifier, IC-OP AMP , electrical parameters of OP AMP, inverting & noninverting modes ; OP AMP as adder, subtractor, differentiator & integrator.

**Unit: V : Special Theory of Relativity (12)**

Postulates of Special Theory of Relativity, Lorentz transformations, Length contraction, Time dilation, relativistic addition of velocities, relativity of mass, Einstein's Mass - energy relation, Numericals.

**Unit: VI : Atmosphere and Geophysicss (12)**

Structure of earth – The crust, mantle, core.

Part of the earth – As a planet; The Atmosphere, The lithosphere, The Hydrosphere Composition of Atmosphere

Earthquakes – Causes, terminologies associated with earthquakes. Type of earthquakes scale of intensity, recording of earthquakes.

Radiation in the atmosphere, Propagation of energy through vacuum, Intensity of radiation, Scattering, absorption and reflection of solar radiation by the atmosphere. Moisture and clouds: mechanism that produces clouds ,Cloud produced by mixing and by cooling.

**Practical:** The distribution of marks for practical examination will be as follows:

Record Book	10 marks
Viva-voce	10 marks
Experiment	20 marks
Assignment	10 marks
<b>Total</b>	<b>50 marks</b>

# PHYSICS

## Environment and Sustainability

### CLASS/SEM B. SC. S. Y. SEM (IV)

#### UNIT VI: RENEAWABLE ENERGY SOURCES

91

21. To draw the BH curve of iron by using a Solenoid and to determine the energy loss due to Hysteresis.

#### Reference Books:—

1. Solid state Electronics Devices- B.G.Streetman (PHI)
2. Electronics Devices & Circuits – A. Mottershead (PHI)
3. Integrated Electronics—J.Millman ; C.Halkias (TMH)
4. Electronics Devices & circuits – Sanjeev Gupta (Dhanpat Rai Pub.)
5. Electronics Devices & circuits-I & II – Godse & Bakshi ( Tech. Pub. , Pune)
6. Solid State Devices & Electronics—Kamal Singh & S.P.Singh (S. Chand & Co.)
7. Electromagnetic theory and holography – satya parakash
8. A text book of geology – G.B. mahapatra
9. Engineering and general geology – parbin singh.
10. The atmosphere – Richard A. Anthes, Hans A. Panotsky, Jhon J Cahir, Albert Rango.
11. Relativity—Goyal and Gupta
12. Text book of Physics --- V. K. Sewane
13. Elements of Special theory of relativity—S.P.Singh and M.K.Bagde
14. A course in Electromagnetic field by S. W.Anwane, B.P.B. Publication, New Delhi.

#### 4SPHY

#### Unit I : Geometrical optics and interference (12)

Cardinal points of an optical system, equivalent focal length and power of coaxial lens system, Interference in thin films due to reflected and transmitted light, interference in wedge shaped thin film, Newton's ring by reflected light, measurement of wavelength of monochromatic light by Newton's ring, determination of refractive index of liquid by Newton's rings.

#### Unit II : Diffraction (12)

Fresnel and Fraunhofer Diffraction, Fresnel half period zone, zone plate construction and theory. Double slit diffraction,

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Plane diffraction grating; construction and elementary theory, determination of wavelength of monochromatic light by using grating. Resolution of images, Rayleigh's criteria for resolution, R. P. of grating.

**Unit III : Polarization**

(12)

Concept of polarization, optic axis, double refraction, polarization by double refraction, phase retardation plate :- Quarter wave plate, half wave plate, (Nicol prism-production and analysis of polarized light). Theory of production of elliptically and circularly polarized light, production and detection of elliptically and circularly polarized light. Half shade polarimeter, blue of the sky.

**Unit IV : Laser**

(12)

Introduction to Maser, Absorption, spontaneous and stimulated emission, population inversion, pumping characteristics of laser beam. Main components of laser system, three level and four level laser system. Ruby laser, He-Ne laser, semiconductor laser, application of laser. Holography-principle .

**Unit V : Fiber optics**

(12)

introduction of fiber optics, total internal reflection, structure and classification of optical fiber. Propagation of light wave in an optical fiber, Acceptance angle and numerical aperture, dispersion, fiber losses, fiber optic communication. Advantages and Disadvantages of optic fibers, application of fiber optics.

**Unit VI : Renewable Energy Sources**

(12)

Introduction to various renewable energy sources – Solar energy, Wind energy, ocean energy- Waves & tides, geothermal energy, Hybrid Systems, Hydrogen energy systems, Fuel cells.

**Solar energy** - Solar radiations on earth - availability and seasonal variations, Solar constant, Spectral distribution, Measurement of solar radiation and sun shine.

**Solar Energy Storage :-** Methods of storage, properties of storage materials. Principle of Solar Thermal Applications, Solar water heater, Solar concentrating collectors - Types, applications.

**Solar Photovoltaic systems --** Operating principle, Photovoltaic cell concepts, power of a solar cell and solar PV panel ; Applications.

**Practical :** The distribution of marks for practical examination will be as follows:

Record Book	10 marks
Viva-voce	10 marks
Experiment	20 marks
Assignment	10 marks
<b>Total</b>	<b>50 marks</b>

- a) A student will have to perform at least ten experiments per semester.
- b) The semester examination will be of Four Hour duration and student will have to perform one experiment in the semester examination.
- c) In assignment, every student should be asked to submit the detailed report on one of experiments he or she has performed. The detailed report should include the theoretical background of the experiment..

**Evaluation of the student during the semester:**

The teacher should explain, discuss and demonstrate one experiment per turn in the first twelve turns of the semester. At the same time in every turn; a teacher will have to conduct a test in the first period of the turn, based on the experiment; he or she has

explained in the previous turn. The test is to be carried out with the interest to make the student aware of the basics of the experiments. This will enhance the viva voce competence of the student. A record of these tests is to be maintained in the department duly signed by the teacher in-charge and head of the department. The record is to be maintained in the following format. Each assignment should be of at least 15 marks. Find the average and assign it in the end Semester practical examination.

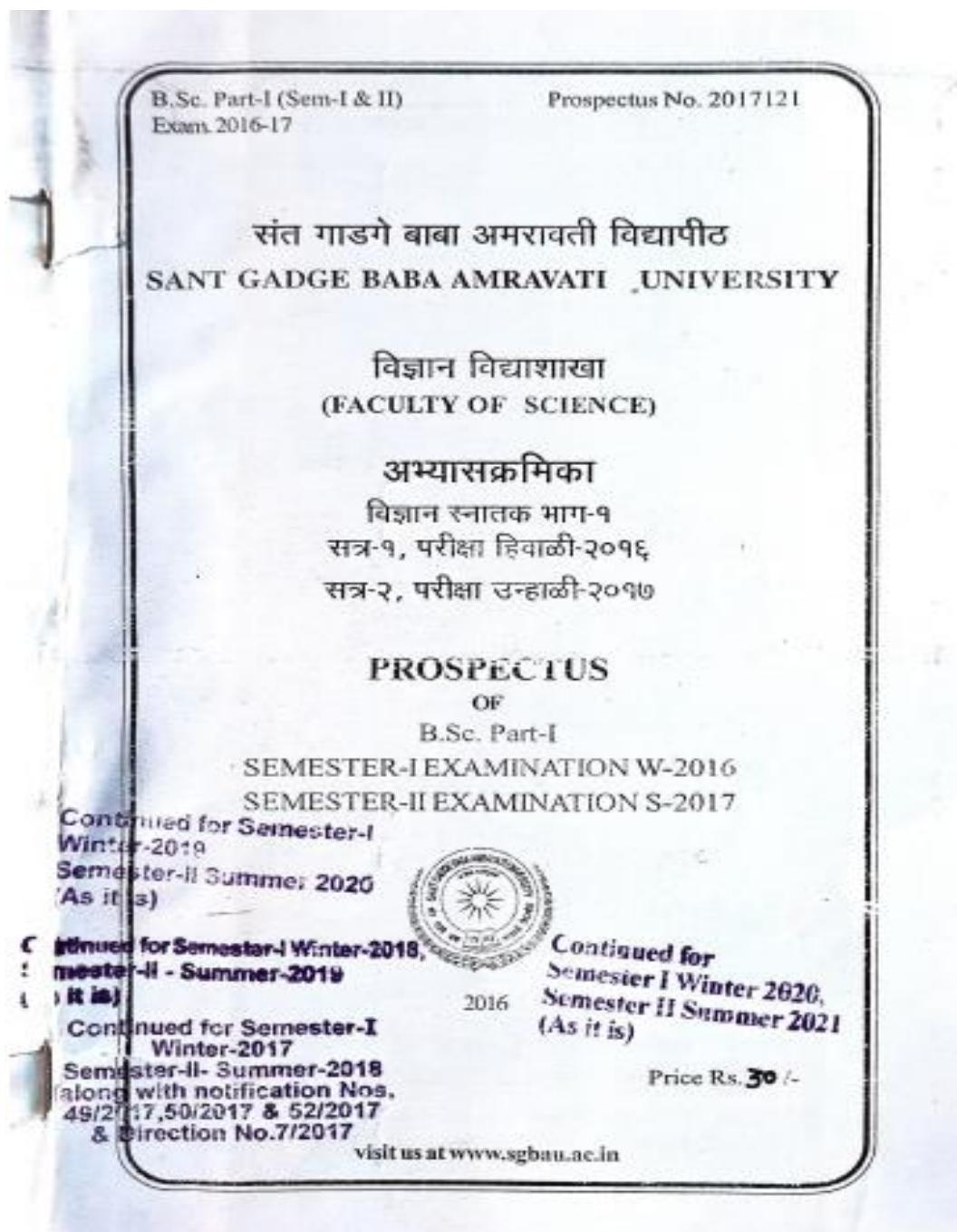
## BOTANY

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

CLASS/SEM B. SC. F. Y. SEM (I)

UNIT 1

1.3 DIVERSITY OF PLANTS WITH RESPECT TO HABITAT NUTRITION & ECOLOGICAL SYSTEM  
ENVIRONMENT



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### 13. BOTANY

There shall be following paper and practical for B. Sc. Part – I Semester one examination. The syllabus is based on six theory periods and six practical periods per week (Total 75 – 80 theory sessions and 25 practical sessions per complete semester). There shall be one compulsory paper of 3 hours duration, in theory as stated below and practical examination extending for 4 hours. Every examinee shall offer the following paper of 100 marks (out of which 80 marks will be for written examination and 20 marks for internal assessment) and practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

		Marks
1.	Paper – 1	
a.	Theory	80
b.	Internal Assessment	20
2.	Practical	50
<b>Total</b>		<b>150 Marks</b>

### 1S – BOTANY

#### Diversity & Applications of Microbes and Cryptogams

##### UNIT-I : Plant Diversity (15)

- 1.1 Cyanobacteria and its impact on origin of life
- 1.2 Introduction to Plant Kingdom: Cryptogams
- 1.3 Diversity of plants with respect to habitat, form, nutrition and ecological status
- 1.4 General Account of Viruses and structure of TMV and HIV
- 1.5 Bacteria: structure, Nutrition and reproduction
- 1.6 Role of microbes in Agriculture, Medicine and Industries

##### UNIT-II: Algae (15)

- 2.1. Classification according to F. E. Fritsch and G. M. Smith up to classes
- 2.2. General characters of algae with reference to Habitat, Thallus organization, Pigmentation, Reserve food and Reproduction
- 2.3. General characters of following classes with special reference to examples mentioned –
  - 2.3.1. Chlorophyta - Oedogonium
  - 2.3.2. Charophyta – Chara (Thallus structure and reproduction)
  - 2.3.3. Phaeophyta – Sargassum (Thallus structure and reproduction)
  - 2.3.4. Rhodophyta – Batrachospermum

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**UNIT-III : Fungi****(15)**

- 3.1. Classification according to Ainsworth (1973)
- 3.2. General characteristics of following classes with special reference to examples mentioned –
  - 3.2.1. Mastigomycotina : *Albugo (Cystopus)*
  - 3.2.2. Ascomycotina : *Aspergillus*
  - 3.2.3. Basidiomycotina : *Puccinia graminis-tritici*
  - 3.2.4. Deuteromycotina : General characters
- 3.3. Lichen-Types & Economic importance

**Unit-IV : Bryophyte****(15)**

- 4.1. Classification according to G. M. Smith
- 4.2. General characters, thallus organization and life cycle of –
  - 1.2.1. Hepaticopsida – *Marchantia*
  - 1.2.2. Bryopsida – *Funaria*
- 4.3. Evolution of sporophyte in bryophytes
- 4.4. Affinities of bryophytes with algae and pteridophytes
- 4.5. Brief Account on some Indian Bryologist.

**Unit-V : Pteridophyte****(15)**

- 5.1. Pteridophytes as First Vascular Plants.
- 5.2. Classification according to G. M. Smith
- 5.3. General characters of the following classes with special reference to examples mentioned –
  - 5.3.1. Sphenopsida – *Equisetum*
  - 5.3.2. Filicopsida – *Marsilea*
- 5.4. Stele types in pteridophytes
- 5.5. Heterospory and Seed Habit in Pteridophytes

**Unit-VI : Application of Microbes Cryptogams****(15)**

- 6.1. Economic Importance of Algae with special reference to Food, Industries, Agriculture and Harmful aspects
- 6.2. Mycorrhiza – Types and Application
- 6.3. Role of Fungi in Industries, Medicine, Food & Agriculture
- 6.4. Plant Diseases –
  - 6.4.1. Viral – TMV
  - 6.4.2. Bacteria – Black arm of cotton (*Xanthomonos malvacearum*)
  - 6.4.3. Fungal – Tikka disease of groundnut (*Cercospora sps.*)
- 6.5. Economical and Ecological Importance of Bryophytes

# **BOTANY**

## **CLASS/SEM B. SC. S. Y. SEM (III)**

### **UNIT 1 CONCEPT OF BIODIVERSITY ENVIRONMENT**

45

#### **7. BOTANY**

#### **3S- BOTANY**

#### **ANGIOSPERM SYSTEMATICS, ANATOMY & EMBRYOLOGY**

##### **UNIT I: Angiosperm Systematics and Biodiversity.**

- 1.1 Angiosperms: Origin and Evolution (Pteridospermean and Bennititalean Theory)
- 1.2 Botanical Nomenclature: Principles of rules, Taxonomic Ranks, Type concept, Valid publication.
- 1.3 Herbarium – Concept & significance, Royal Botanical Garden, Kolkata.
- 1.4 Concept of biodiversity, Ex situ and In situ conservation
- 1.5 Concept & importance of Biodiversity.

##### **UNIT II: Angiosperm Systematics**

- 2.1 Systems of Classification: Bentham and Hooker's System, Engler and Prantle's system.
- 2.2 Systematic studies & economic importance of following Families  
Dicotyledons (Polypetalae) : Malvaceae, Brassicaceae, Leguminosae, Apiaceae,

##### **UNIT III: Angiosperm Systematics**

- 3.1 Systematic studies & economic importance of following Families  
Dicotyledons (Gamopetalae): Asteraceae, Asclepiadaceae, Apocynaceae, Solanaceae, Verbenaceae, Lamiaceae.
- 3.2 Dicotyledons ( Monoclamydeae): Euphorbiaceae.
- 3.3 Monocotyledons: Liliaceae, Poaceae.

##### **UNIT IV: Anatomy**

- 4.1 Types of Tissues:  
Meristematic – Types of meristems  
Permanent – Simple and complex.
- 4.2 Characteristics of growth rings, Sapwood and heartwood.
- 4.3 Anatomy of root: Primary structure in dicot and monocot root, normal secondary growth in dicot root.

##### **UNIT V: Anatomy**

- 5.1 Anatomy of stem: Primary structure in monocot and dicot

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## **BOTANY**

### **CLASS/SEM B. SC. T. Y. SEM (V)**

### **UNIT 05: ECOLOGY & ENVIRONMENT**

46

22. Dynamic Earth - Skinner Potter - Pub. John, Wiley.
23. Text Book of Physical Geology - G.B.Mahapatra- Pub. C.B.S., New Delhi.
24. Dynamic Earth – Patwardhan A.M., E E.E Publications, New Delhi.
25. Physical Geology –A. Holmes, Orient Longman Publications.
26. Concepts in Geology - Chakranarya, Kulkarni, Pub. Scientific Publication, Pune.
27. Dynamic Earth- Whiley, John Wiley and Sons, New York.
28. Radhakrishnan N. General Geology, V.V.P Pub, Vellore.
29. Text Book of Engineering Geology - Parbin Singh, Katson Publishing, Ludhiana.

#### **B.Sc. Final Year, Semester-V**

#### **7: BOTANY**

The examination in Botany of fifth Semester shall comprise of one theory paper, internal assessment and practical examination. Theory Paper will be of 3 Hrs. duration and carry 80 marks. The internal assessment will carry 20 marks. The practical examination will be of 4 hours duration and carry 50 marks.

The following syllabi is prescribed on the basis of six lecturers per week and 6 practical periods per batch per week. Each theory paper has been divided into 6 units. There shall be one question in every unit with internal choice for each of 12 marks & one compulsory question covering all the syllabus of Semester-V (8 marks).

#### **5S - BOTANY**

#### **PLANT PHYSIOLOGY AND ECOLOGY**

##### **Unit - I: Plant Water Relations**

- 1.1 Importance of water to plant life.  
Imbibition , Diffusion, Osmosis, Plasmolysis.
- 1.2 Active and passive Absorption of water.
- 1.3 Ascent of sap - Root Pressure and Transpiration Pull Theory.
- 1.4 Transpiration - Types of transpiration, Stomatal movements, Mechanism of transpiration (Starch ) sugar hypothesis), Significance. Antitranspirant, Guttation.
- 1.5 Mineral uptake - Active uptake - Caspary Concept, Passive up take - Ion Exchange.

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**Unit - II: Metabolism-**

2.1 Photosynthesis - Introduction, Role of Light, Photosynthetic Apparatus and Pigments, Two Pigment Systems, Photophosphorylation, C<sub>3</sub> and C<sub>4</sub> cycle, CAM Pathway.

2.2 Respiration - Introduction, Mitochondria as a Respiratory centre, Types of Respiration - Aerobic and Anaerobic, Mechanism of aerobic respiration- Glycolysis, Kreb cycle, Electron transport system and Chemiosmotic ATP generation, Respiratory Quotient.

**Unit - III: Metabolism and growth**

3.1 Nitrogen Metabolism- Sources of nitrogen, Symbiotic nitrogen fixation, Role of Nitrate reductase.

3.2 Growth - Phases of growth, Growth curve, Physiological role of growth hormones ( Auxins, Gibberellins, Cytokinins, Abscisic acid, and Ethylene).

3.3 Physiology of Senescence and Abscission.

**Unit - IV: Plant responses**

4.1 Photoperiodism - Concept of Florigen, Role of Phytochrome,

4.2 Vernalization- Concept and Significance.

4.3 Plant movement- Tropic (Phototropic and Geotropic) and Nastic (Epinasty, Hyponasty and Seismonasty)

4.4 Stress physiology- Concept, Types of stress, Water and Salinity stress.

**Unit - V: Ecology and Environment:**

5.1 Concept of environment, Concept and scope of ecology.

5.2 Ecological factors- Climatic- Light, Temperature and Water.

5.3 Atmosphere and its composition.

5.4 Edaphic factor- Process of soil formation, soil profile, soil biota and their role.

5.5 Ecological Adaptations - Morphological and Anatomical adaptation in Hydrophytes, and Xerophytes.

**Unit - VI: Ecosystem:**

6.1 Population Ecology- Natality and Mortality, Community characteristics – Frequency, Density and Abundance

6.2 Ecological Succession - Hydrosere and Xerosere

6.3 Ecosystem – Definition, Structure and Function,

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Food chain, Food web, Energy flow model (Single channel model)

6.4 Types of Ecosystem- Pond ecosystem, Desert ecosystem.

**LABORATORY EXERCISE :**

**Plant Physiology: Major experiment (Any Seven)**

1. To study the effect of temperature and organic solvent on permeability of plasma membrane.
2. To study osmotic pressure of cell sap by plasmolytic method.
3. To determine water potential of plant tissue.
4. To determine the path of water (ascent of sap)
5. To determine the rate of transpiration by Ganongs photometer.
6. To determine rate of photosynthesis under varying quality of light and CO<sub>2</sub> concentration.
7. To study the rate of photosynthesis in terrestrial plants with the help of Ganongs Photosynthometer.
8. Separation of chloroplast pigments by paper chromatography/ solvent extraction method.
9. Separation of amino acids by paper chromatography method.
10. To determine R.Q. using different substrates.
11. To determine the rate of respiration by Ganongs respirometer.
12. To study antagonism of salts.
13. To study phenomenon of adsorption.
14. To study effect of IAA and Gibberellins on seed germination.
15. Test for secondary metabolites- Alkaloid, Phenolics, Tannin, Flavonoids and Lignin
16. To study Endo and Exo-osmosis by egg membrane osmoscope

**Plant Physiology: Minor experiment- (Any Three)**

1. To demonstrate fermentation.
2. To demonstrate exo and endosmosis
3. To demonstrate transpiration by Bell jar.
4. To demonstrate light is necessary for photosynthesis
5. To demonstrate anaerobic respiration in germinating seeds.
6. To demonstrate the evolution of CO<sub>2</sub> in respiration.
7. To demonstrate the phenomenon of nastic movement with help of *Mimosa pudica* / or *Biophytum sensitivum*.

**Ecology: Major experiment (Any Three)**

1. Study of morphological and anatomical adaptations in hydrophytes – *Hydrilla*, *Eichhornia*, *Typha*, *Vallisneria* and *Nymphaea* (any two)



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Principal  
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## MICROBIOLOGY

### CLASS/SEM B. SC. T. Y. SEM (V) ENVIRONMENTAL MICROBIOLOGY & BIOINSTRUMENTATION ENVIRONMENT

B.Sc. Final (Sem-V & VI)  
Exam. 2015-16

Prospectus No. 2016123

## संत गाडगेबाबा अमरावती विद्यापीठ SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा  
(FACULTY OF SCIENCE)

### अव्यासक्रमिका

विज्ञान स्नातक अन्त्य परिक्षा  
सत्र ५- हिवाळी - २०१५  
सत्र ६ - उन्हाळी - २०१६

## PROSPECTUS OF

The Examination for the Bachelor of Science

Semester-V, Winter- 2015, and

Semester-VI, Summer-2016 *Continued for Semester-V  
Winter-2017  
Semester-VI- Summer-2018  
(along with notification Nos.  
28/2017, 54/2017 &  
Direction No. 51/2017*



Contd. for Semester-V  
Winter-2016

Semester-VI Summer-2017  
(Along with Notf. No.57 of 2016)

Continued for  
Semester V Winter 2020,  
Semester VI Summer-2021  
(As it is)

Continued for Semester-V  
Winter-2019  
Semester-VI Summer 2020  
(Along with notification No.56/2019)

Continued for Semester-V Winter-2018, (Price-Rs.30/-)  
Semester-VI - Summer-2019  
(As it is)

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**MISCELLANEOUS:-**

1.	Propipettes	Any make	Able to hold any pipettes from 0.1 ml to 10 ml capacity	5 Nos.
2.	Test tube	Tarson	To hold 12 tubes	20 Nos.
3.	Burette stands	---	Metal rod and base with tarson clamp.	20 Nos.
4.	Rubber Crock		To fit in conical flasks of all capacity.	20 each
5.	Procelain Glazed tiles		6x6"	20 Nos.
6.	Mortor and Pestal	---	6" diameter	1 Nos.

**B.S.C. FINAL (SEMESTER-V)**  
**17 : MICROBIOLOGY**

The examination shall comprise of two theory papers, one in each semester and one practical in each Semester. Each theory paper will be of 3 hours duration and carry 80 marks. The internal assessment will carry 20 marks. The following syllabi is prescribed on the basis of six lectures per week and 6 practical periods per batch per week. Each theory paper have been devided into 6 units. There shall be one question on each unit, will internal choice and for each of 12 marks and one compulsory question covering all the syllabus of semester V(8 marks).

**SS MICROBIOLOGY**  
**(Environmental Microbiology and Bioinstrumentation)**

**Unit-I : Microbial Associations and Air Microbiology**

**A. Microbial Associations :** Definition and examples of positive(Mutualism, Commensalism, Synergism), negative (Antagonism, Competition, Parasitism ) and neutral association.

### **B. Air Microbiology**

- a) The atmosphere and its layers.
- b) Different types of microorganisms in air.
- c) Techniques for microbiological analysis of air:
  - i) Solid impingement devices
  - ii) Liquid impingement devices.
- d) Airborne diseases : Etiology, symptoms and prevention.
- e) Control of microorganisms in air.

### **Unit-II : Microbiology of Soil.**

- a) Microorganisms in soil.
- b) Rhizosphere.
- c) Decomposition of plant and animal residues in soil.
- d) Definition, formation, function and microbiology of humus and compost.
- e) Biological Nitrogen fixation : Type of nitrogen fixing microorganisms, factors affecting and mechanism of symbiotic and non-symbiotic nitrogen fixation. Process of nodulation, nitrogenase complex, recombinant DNA and nitrogen fixation, legume inoculants.
- f) Cycles of elements in nature :
  - i) Carbon cycle : CO<sub>2</sub> fixation, organic carbon degradation.
  - ii) Nitrogen cycle : Proteolysis, amino acid degradation, Nitrification, Denitrification, Degradation of nucleic acids.
  - iii) Sulphur cycle
  - iv) Phosphorus cycle.
  - v) Biofertilizers, biological pest control.

### **Unit III : Water Microbiology**

- a) Planktons : Definition, types, factors affecting growth of planktons, methods of enumeration, beneficial and harmful activities of planktons.

- b) Control of plankton problems
- c) Eutrophication and its control.

#### **Unit IV : Assessment of Water Quality and Treatment**

Bacteriological analysis of water:

- i) Significance of bacteriological analysis of water.
- ii) Collection and handling of water sample from various sources.
- iii) Indicators of excretal pollution.
- iv) Multiple tube dilution technique, MPN.
- v) IMViC classification of coliform.
- vi) Membrane filter technique for coliform and faecal Streptococci.
- vii) ICMR and WHO Bacteriological standards of drinking water.

#### **Unit V : A) Water Treatment**

- a) Self purification of water : Various zones and factors responsible for self purification.
- b) Treatment of water : Aeration, Coagulation, Flocculation, Sedimentation and Filtration.
- c) Slow and Rapid sand filters : Construction, mechanism of filtration, differences.
- d) Methods of chlorination : Plain, super chlorination, ammoniachlorine treatment, Break-point chlorination

#### **B) Waste Water Treatment**

- a) Aims of sewage treatment, composition of sewage.
- b) Municipal sewage treatment plant.
- c) Preliminary treatment (seiving and Grit chamber)
- d) Primary treatment(sedimentation)
- e) Secondary treatment (Aerobic)
  - i) Trickling filter
  - ii) Activated sludge process
  - iii) Oxidation pond
- f) Anaerobic sludge digestion

- g) Domestic sewage treatment by septic tank and Imhoff tank.
- h) Concept of COD, BOD.
- i) Outline of bio-gas production

#### **VI : Bio-Instrumentation**

- a) Spectroscopy- Definition, Principle, types (UV&IR) & its applications.
- b) Electrophoresis- Definition, Principle, types (Paper&Gel) & its applications.
- c) Chromatography- Definition, Principle, types (Paper&TLC) & its applications.
- d) Isotopic Tracer Techniques - Definition, Principle & applications.

#### **Microbiology Practicals.**

1. Bacteriological analysis of water and Waste Water.
  - a) Standard plate Count.
  - b) Multiple tube dilution technique (MPN for Coliform)
    - i) Presumptive test
    - ii) Confirmatory test
    - iii) Completed test.
  - c) IMViC test for coliform
  - d) Multiple tube dilution technique for faecal strepto cocci.
  - e) Membrane filter technique for coliforms & faecal streptococci.
  - f) BOD estimation.
  - g) Isolation of Bacteriophage from Sewage.
  - h) Determination of Chlorine demand and residual chlorine.
2. Study of Soil Microbiology
  - a) Enumeration of Soil microorganisms.
  - b) Isolation of Azotobacter from Soil.
  - c) Isolation of Rhizobium from Soil

~~Normal~~ d) Isolation of Antibiotic producers from soil

3. Effect of Ultra-violet/Filtration on micro-organism present in water
4. Separation of amino acids and sugars by paper chromatography.

**Distribution of marks for Microbiology practical Examination:**

1. Major Experiment	- 15 marks
2. Minor Experiment	- 10 Marks
3. Viva Voce	- 10 marks
4. Spotting	- 10 marks
5. Laboratory Journals	- 05 Marks

<b>Total</b>	<b>- 50 marks</b>
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**List of Reference Books for 5S Microbiology:**

1. Introduction to Soil Microbiology : Alexander Martin
2. Soil Microbiology : Subbaroa N.S.
3. Introduction to environmental Microbiology: Mitchell, Ralph
4. Sewage & Waste treatment : Hammer
5. Water Pollution : Zajic J.E.
6. Water Pollution Microbiology : Mitchell R.
7. Air Pollution : Perlins H.L.
8. Aquatic Microbiology : Stainer & Shewan
9. Introduction to Waste Water Treatment processes: Ramalhr R.S.

**B.SC. FINAL (SEMESTER-VI)**  
**6 S. MICROBIOLOGY**

The examination shall comprise of two theory papers, one in each semester and one practical in each Semester. Each theory paper will be of 3 hours duration and carry 80 marks. The internal assessment will carry 20 marks. The following syllabi is prescribed on the basis of six lectures per week and 6 practical periods per batch per week. Each theory paper have been devided into 6 units. There shall be one question on each unit, will internal choice and for each of 12 marks and one compulsory question covering all the syllabus of semester VI(8 marks).

**ZOOLOGY**  
**CLASS/SEM B. SC. S. Y. SEM (IV)**  
**UNIT 05 ECOLOGY**  
**UNIT 06 ECOSYSTEM ENVIRONMENT**  
**ENVIRONMENT**

70

**E) Histological Slides :- Amphioxus, Frog, Rat**  
**Slides :**  
**Amphioxus :** T.S, Oral hood, Pharynx, Tail  
**Frog :-** T.S. lung, Stomach, Kidney, T.S. Intestine,  
**Rat :-** T.S. Liver, Pancrease, Ovary, Testies, Pituitary, Thyroid, Adrenal

**DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION.**

1. Dissection: -	10
2. Permanent stained micro preparation.	05
3. Spotting. (Specimens, Slides, bones, fossil)	10
4. Practical on evolution -	10
5. Class record	05
6. Viva - Voce	05
7. Submission of study tour report.	05

**Total Marks: 50**

**BSc.II Semester IV**

**ZOOLOGY**

There shall be the following paper and practical for B.Sc. Part-II Semester IV examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory sessions and 25 practical sessions) during the complete semester. There shall be one compulsory theory paper of 3 hours duration the semester, as stated below and a practical examination extending for four hours. Every examinee shall offer the following paper of 100 marks (80 for written examination and 20 marks for internal assessment) and a practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

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**Semester IV**

<b>Paper-I:</b>	<b>Marks Allotted</b>
Advanced Genetics and Animal Ecology.	
Written examination.....	80
Internal assessment .....	20
Practical:	50
<b>Total:</b> .....	<b>150 Marks</b>

**ZOOLOGY Paper 4 S**  
**ADVANCED GENETICS AND ANIMAL ECOLOGY**

**UNIT I :** Concept of genes.

Mendel's laws of heredity – Monohybrid – Laws of dominance, law of segregation. Dihybrid cross – Law of independent assortment. Interactions of genes: , Supplementary factor, complementary factor, duplicates factor, inhibitory factors, and lethal factors – dominant and recessive.

**UNIT II :** Linkage - Types of linkage, linkage group, arrangement of linked genes, and significance of linkage.

Crossing over – Mitotic and meiotic crossing over, Mechanism of crossing over, theories of crossing over – Darlington's theory, breakage and exchange theory, and copy choice theory. Types of crossing over – Single, double and multiple crossing overs. Factors affecting crossing over, Significance of crossing over.

Multiple alleles. Multiple alleles in relation to eye color in Drosophila. Blood group in man, Erythroblastosis foetalis

**UNIT III :** Sex determination: Autosomes and sex chromosomes, Sex determination in animals, Chromosomal Theory. Genic Balance Theory. Environmentally and hormonally controlled sex determination, Gynandromorphs.

Genetic disorders; Sickle cell anemia, , Huntington's chorea. Diabetes mellitus. Non-disjunction: Turner's syndrome, Klinefelter's syndrome, Down's syndrome. Edwrd's

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Syndrome, Biochemical genetics:; Cystic fibrosis, Phenylketonuria, Albinism, Alkaptonuria, Goiters, cretinism. Sex linked genetic disorders and their inheritance in man; Hemophilia and color blindness.

**UNIT IV :** **Genetic Screening and parental diagnosis:** - Parental, Carrier, Predictive, CVS (Chorionic Villous Sampling), Amniocentesis, Gene probe and DNA analysis. **Genes in Human Heredity:** - Inheritance of eye color. Skin color. **Recessive genes and consanguineous marriages** **Genetic counseling:** - Risk of marriages in affected family. Birth control measures (male and female).

**Kinds of twins:** - Identical, Fraternal, Siamese twins. **Significance of twins study**

**UNIT V :** **Ecology: concept and scope:**

**Abiotic factors:**

**Water:** Properties, water problem in terrestrial and aquatic habitat. **Temperature:** Temperature range, Temperature tolerance, Effects of temperature on animals. Homeotherms, poikilotherms. **Dormancy, hibernation, aestivation & diapauses.** **Light:** Spectral distribution, Biological effects of light on aquatic and terrestrial animals: Reproduction, Metamorphosis, pigmentation, vision, photo kinesis, phototropism, photoperiodism, migration.

**Biotic factors:**

Intra specific and interspecific associations, Predation, parasitism, Antagonism, commensalisms, mutualism, competition, (Gause's Principle).

**UNIT VI :** **Ecosystem: Relationship between habitat and ecological niche** - Autotrophic and heterotrophic producer, consumer - trophic level - energy flow in an ecosystem - food chain - food web - pyramids - Ecotypes. Homeostasis of ecosystem.

**Terrestrial ecosystem:** Classification and Biomes, **Aquatic ecosystem:** Fresh water ecosystem-Lentic and lotic ecosystem,

Marine ecosystem: Characteristics, salinity, temperature - pressure, zonation and stratification Estuarine ecology: Characteristics types, fauna and their adaptations.

#### **REFERENCE BOOKS:**

1. Cell Biology, Genetics, Molecular Biology, Evolution & Ecology – P.S. Verma & V.K. Agrawal.
2. Principles of Genetics – S.K. Jain
3. Genetics – P.K. Gupta
4. Applied Genetics – C. Pmmanuol.
5. Genetics: M. W. Strickberger, New York.
6. Principles of Genetics: Sinnott, Dunn and Dobzansky.
7. Principles of Genetics: Edidon Gardner.
8. Genetics. Verma, P.S. and V.K. Agarwal.. S.Chand & co. New Delhi
9. Gene VI .Lewin, B. 1998. Wiley Eastern Ltd., New Delhi.
10. Human Genetics. Rothwell, N. V. 1979. Prentice Hall of India, New Delhi

### Practical:-

Two practical per week of 3 periods duration. Examination shall be of 5 Hrs. duration and of 50 marks.

### A) Genetic experiments:

1. Recording of Mendelian traits in man.
2. Detection of monohybrid and dihybrid cross with the help of plastic beads.
3. Culturing *Drosophila* using standard methods .*Drosophila* – male and female identification, Mutant forms (from pictures)
4. Demonstration of bar bodies.
5. Preparation of human Karyotypes from Xerox pictures.
6. Photo slides for, Turner's syndrome, Klinefelter's syndrome, Down's syndrome
7. Detection of syndrome from chromosome spread picture.
8. Study of following human genetic traits and application of Hardy-Weinberg Principle to them – Baldness, length of index and ring Finger, attached and free earlobes, rolling of tongue, PTC taste. Other notable traits.

**B) Ecology**

1. Use of pH meter for estimation of pH in soil samples, b. Use of pH meter for estimation of pH in water samples
2. Estimation of Dissolved oxygen, salinity, pH, free CO<sub>2</sub>, carbonates and bicarbonates, calcium in water samples.
3. Adaptations of aquatic and terrestrial animals based on a study of museum specimens. Such as rocky, sandy, muddy shore animals, flying and burrowing animals.
4. Study of natural ecosystem and field report of the visit.
5. Field collection methods;
6. Identification of common animals - Soil invertebrate diversity, diversity of birds and mammals in parks / botanical gardens, threats to local biodiversity.
7. Construction of a food web diagram based on a field visit.
8. Mounting of plankton.
9. Qualitative analysis of fresh water plankton

**C) General:-**

1. Visit to a National park or sanctuary, and submission of report.

**DISTRIBUTION OF MARKS FOR  
PRACTICAL EXAMINATION.**

1. Ecological: Estimations -/Analysis	10
2. Spotting. (2Spot from Sec.A & 3 Spot from Section B of 2 Marks each)	10
3. Micro preparation.	05
4. Genetic experiment -	10
5. Class record	05
6. Viva - Voce	05
7. Submission of study tour report.	05

**Total Marks : 50**

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## CLASS/SEM B. A. I SEM I

### PROSE : SPEECH ON INDIAN INDEPENDENCE : JAWAHARLAL NEHRU

#### PROSE 4: VALUES IN LIFE

#### ENVIRNMENT

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#### Appendix-A

##### SYLLABUS

##### PRESCRIBED FOR

##### B. A. - Part I EXAMINATION

##### Semester I

##### Compulsory English

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT : 20 MARKS

Prescribed Textbook : *Blooming Buds* by Board of Editors & published by Orient Blackswan.  
UNIT I

##### PROSE -

1. Education Provides a Solid Foundation - A.P.J Abdul Kalam
2. Love Story - Maneka Gandhi
3. Speech on Indian Independence – Jawaharlal Nehru
4. Film Making - Satyajit Ray

##### UNIT II

##### POETRY -

5. In the Bazaar of Hyderabad - Sarojini Naidu
6. She Walks in Beauty - Lord Byron
7. Middle Age - Kamala Das

##### UNIT III

##### GRAMMAR -

8. Parts of Speech
9. Tenses

##### UNIT IV

##### COMMUNICATION SKILLS -

10. Unseen Passage
11. Letter Writing (Personal & Business Letters)
12. Curriculum Vitae (CV)

##### UNIT V

##### MULTIPLE CHOICE QUESTIONS -

Based on the prescribed text Unit I & II only.

##### INTERNAL ASSESSMENT

##### i) Viva- Voce

- a) Personal Interview
- b) Seminar

##### ii) Assignments

- a) Making Introduction
- b) Greeting People
- c) Talking about Family
- d) Describing People, Places & Animals
- e) Expressing Feelings
- f) Inviting, Suggesting, Accepting & Refusing

##### Recommended Books:

1. Spoken English : A Foundation Course Part 1 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.
2. Spoken English : A Foundation Course Part 2 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.

#### Compulsory English

TIME : 3 HOURS

MIN PASSING MARKS : 32 MARKS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 08 MARKS

##### Distribution of Marks

A) Prose i) The students will have to answer THREE out of FOUR short answer questions of 2 marks each.  
= 6 Marks  
ii) The students will have to answer TWO out of FOUR long answer questions of 5 marks each.  
= 10 Marks

B) Poetry i) The students will have to answer TWO out of THREE short answer questions of 3 marks each.  
= 6 Marks  
ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each.  
= 10 Marks

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**English**  
**CLASS/SEM B.Sc.-I**  
**Environment And Sustainability**  
**PROSE 4: WATER THE ELIXIR OF LIFE – C. V. RAMAN**

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**Communication Skills:**

**For I Semester**

- 1) Everyday English Part I
- 2) Preparing Curriculum Vitae
- 3) Letter Writing (Applications, Business, Formal letters)

**For II Semester**

- 1) Everyday English Part II
- 2) Report Writing
- 3) Paragraph Writing

**COMPULSORY ENGLISH**  
**1S Compulsory English**

i) Theory	40 marks
ii) Internal Assessment	<u>10 marks</u>
Total	50 marks

i) Theory : Time : 2 Hours

Total marks : 40

**Prose Section :**

1. The Child	- Premchand
2. A Simple Philosophy	- Seathal
3. Water in Life	- P. K. N. N.
<b>4. Water- The Elixir of Life</b>	<b>- C.V.Raman</b>
5. Introduction to English literature	Pratima Venkateswaran

**Poetry Section :**

1. Say Not the Struggle Naught Availeth	- Arthur Hugh Clough
2. God's Grandeur	- GM Hopkins
3. Ode to Autumn	- J Keats
4. Bangle Sellers	- S Naidu
5. Stay Calm	- G. Kleiser

**Grammar : For Sem-I**

- 1) Parts of Speech.
- 2) Use of Articles, Prepositions and Tense.
- 3) Transformation.

**Communication Skills : For Sem-I**

- 1) Everyday English Part I
- 2) Preparing Curriculum Vitae
- 3) Letter Writing (Applications, Business, Formal letters)

**Distribution of Marks.**

Maximum Marks : 40

Time : Two Hours

Q.1 :	There shall be five short answer questions based on prescribed prose.	05 marks
Q.2 :	There shall be four long answer questions based on prescribed prose. Out of these, students will have to answer any two questions of five marks each.	10 marks
Q.3 :	There shall be four long answer questions based on prescribed poems. Out of these, students will have to answer any two questions of five marks each.	10 marks
Q.4 :	There shall be five questions of one mark each, for Do as directed from Grammer - Parts of Speech, Use of articles and Prepositions, Tenses, Transformation of Sentences.	05 marks
Q.5 :	There shall be five questions of one mark each, from Everyday English	05 marks
Q.6 :	There shall be one question on Preparing a Curriculum Vitae or Letter Writing .	05 marks

**ii) Internal Assessment –**

i) One Unit Tests	- 06 marks
ii) One Assignment	- <u>04 marks</u>
Total	10 marks

**2S Compulsory English**

i) Theory	40 marks
ii) Internal Assessment	<u>10 marks</u>
Total	50 marks

i) Theory : Time : 2 Hours

Total Marks : 40

**Prose Section :**

6. What is courage?	- W. Slim
7. The Hazards of Food Colouring	-

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**Marathi**  
**CLASS/SEM B.A.-II SEM-III**  
**Environment And Sustainability**  
**ADNYAPATRA**

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 153**

विभाग ब) लिलित

१)	आज्ञापत्र	रामबंद्रपेत आमच्या त्र. ८०.८०.८०.८०
३)	दिवस असे होते	वया पवार

विभाग क) कविता

१)	संसद्याणी	अ) खोखामेळा ब) सोयराबाई
२)	अखेर कमाई	कृसमांज्ञा
३)	पात्रे	केशव मेहाम
४)	जाती	क्रीकात देशमुख
५)	सात बाराची नोंद	त्वदमण महांडिक
६)	शांतता	सिंधार्य भगत

विभाग ढ) व्यावहारिक मराठी

१)	वकृत्य कला	संदर्भ झाय : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. केलकी भोडक व इतर, पद्मगंधा
२)	सूत्रसंचालन	संदर्भ झाय : 'उपयोजित मराठी' मधील प्रकरण २३ वे	प्रकाशन, पुणे

बी. ए. भाग २ - मराठी (आवश्यक)
सत्र - ४

विभाग अ) वैधारिक

१)	स्त्री-पुरुष तुलना	ताराबाई शिंदे
२)	आदरसा	डॉ. बाबासाहेब अविडकर
३)	विज्ञानयुगात भारत	जयत नारळीकर

विभाग ब) लिलित

१)	गाळेगेबाबाच्या कीर्तनातले तरवळान	प्रबोधनवगर के.सी. ठाकरे
२)	समशानातील सोनं	अणा भाऊ साठे
३)	स्त्रीवादी चळवळीने आम्हाला आमच्या असेतत्याची जाणीव दिली	विद्युत भागवत

विभाग क) कविता

१)	संतवाणी	अ) एकनाय ब) कान्होपात्रा
२)	सारेच दीप कसो मंदावले आला	अनिल
३)	जियलगा	शांता शेळके
४)	जागजाणी	भ.मा. परसावळे
५)	पेटवू नका देश	मिळा रफी अहमद वेग
६)	माती	राजेश महल्ले

विभाग ढ) व्यावहारिक मराठी

१)	माहितीपत्रक	संदर्भ झाय : 'उपयोजित मराठी' मधील प्रकरण ९ वे	संपा. केलकी भोडक व इतर, पद्मगंधा
२)	ग्रिमंत्रपत्रिका व कार्यक्रमपत्रिका	संदर्भ झाय : 'उपयोजित मराठी' मधील प्रकरण १० वे	प्रकाशन, पुणे



*Omraj S. Deshmukh*  
**Dr. Omraj S. Deshmukh**  
**Principal**  
**Shri Shivaji Sci. & Arts**  
**College, Chikhli, Dist. Buldhana**

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

**Activities Conducted for the Address cross cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

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

**Academic Session  
2021-22**

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

## Activities Conducted for the Address to Gender Sensitization



**ICC, Department of sports and IQAC organized Zumba Exercise program for ladies staff and girls during 25/11/22 to 30/11/22**

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**On the occasion of Krantijyoti Savitribai Phule Jayanti A online workshop was organized on 03 Jan 2021**



**On the occasion of Krantijyoti Savitribai Phule Jayanti, A online workshop was organized on 03 Jan 2021. Topic was Role of Historical Women in Women Empowerment. Resource Person was Dr. Manda Nandurkar, Associate Professor-Matoshri Vimlabai Mahavidyalay, Amravati.**

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**A workshop was organized on “Women Protection and Laws” on 09<sup>th</sup> April 2021**



**Resource person was Ad. Jaya Kute for the workshop on “Women Protection and Laws” on 09<sup>th</sup> April 2021. She explained various laws of women protection. She emphasized on Self Security , precaution to be taken and cover of laws to women**

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## Activities Conducted for the Address to Human Values



World Tuberculosis Day was celebrated on 29 March 2022. During program students made aware all about TB through presentation by Mr. S. N. Mendhe, Head Department of Microbiology. Students of Biology Section attended program

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**Covid Vaccination Camp-I was organized at college campus on 21/10/2021 by NSS**



**Covid Vaccination Camp-I was organized by NSS at college campus on 21/10/2021 for staff and students.**

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**Covid Vaccination Camp-II was organized in college campus on 29/10/2021**



**Covid Vaccination Camp-II was organized in college campus on 29/10/2021**

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National Unity Day was celebrated on 31/10/21



National Unity Day was celebrated on 31/10/21 It was celebrated on the occasion of Birth Anniversary of Sardar Vallabhbhai Patel to introduce equality and fraternity amongst staff and students. No. of student participants were 126.

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AIDS Awareness workshop was organized on 12/08/21



AIDS Awareness workshop was organized on 12/08/21.

On the occasion of World Youth Day, Department of NSS in collaboration with Rural Hospital, Chikhli had organized AIDS awareness programme. Dr. Bhavna Campbell Madam from Rural Hospital emphasized on causes, symptoms and rumors about HIV-AIDS and how to tackled this as a youth. Information Booklet was distributed amongst the students regarding AIDS awareness.

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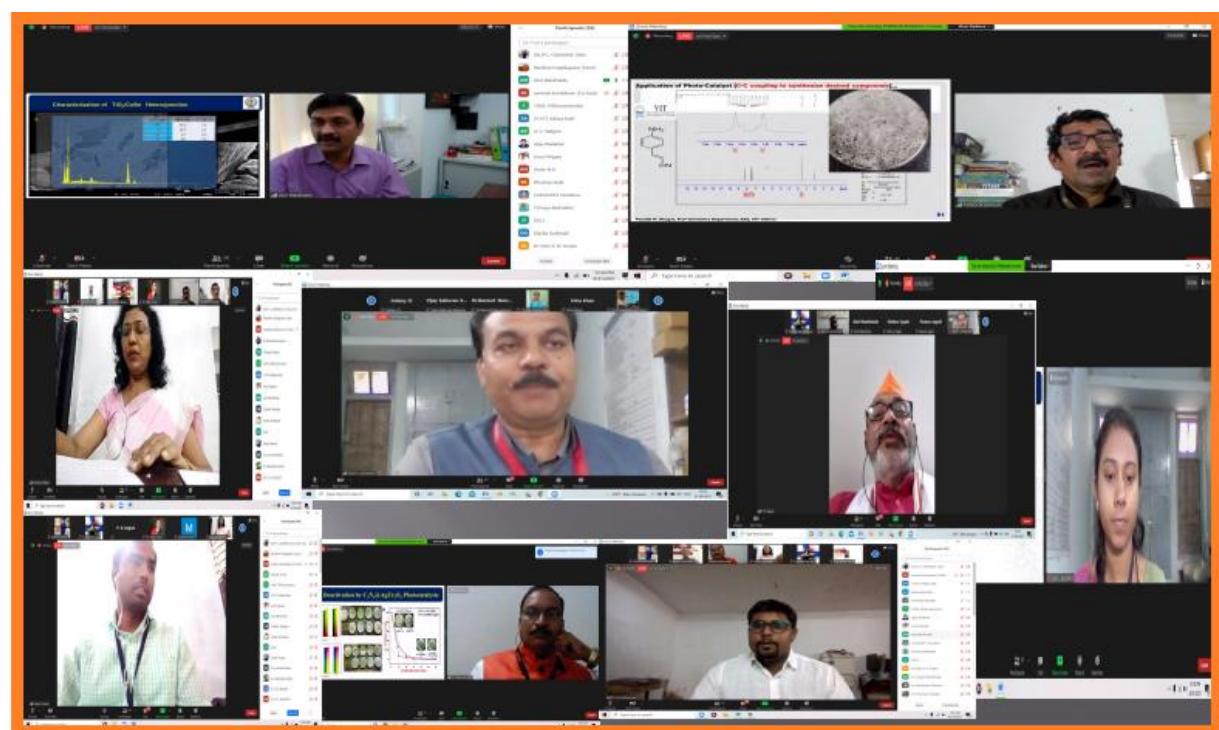


### Alumni Association Celebrated “Dahihandi Festival” on 18/08/22

Dahihandi is a festival to forget all differences and come together and take everyone along. The students of the college participated in Dahi Handi festival.

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## Activities Conducted for the Address to Environment & Sustainability



**Department of Chemistry organized National Level Conference on 31/08/2021. 1st session conducted on “Green Chemistry For Sustainable Future” by Resource Person Dr. Pundlik Bhagat VIT, Vellore.**

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Tree plantation was organized on 14/09/21 & 16/09/21 under **Mazi Vasundhara (My Earth)** Campaign by NSS. This Campaign was organized To make students aware of environmental issues and enrich their thought process regarding environmental issues. Saplings of Neem, Peepal, Gulmohor, Palm has been planted at campus. Students were participated in **Mazi Vasundhara Campaign**.



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**World Sparrow Day Celebrated by installing Clay pots And Bird Feeders at the campus**



**World Sparrow Day Celebrated by installing Clay pots And Bird Feeders at the campus**

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



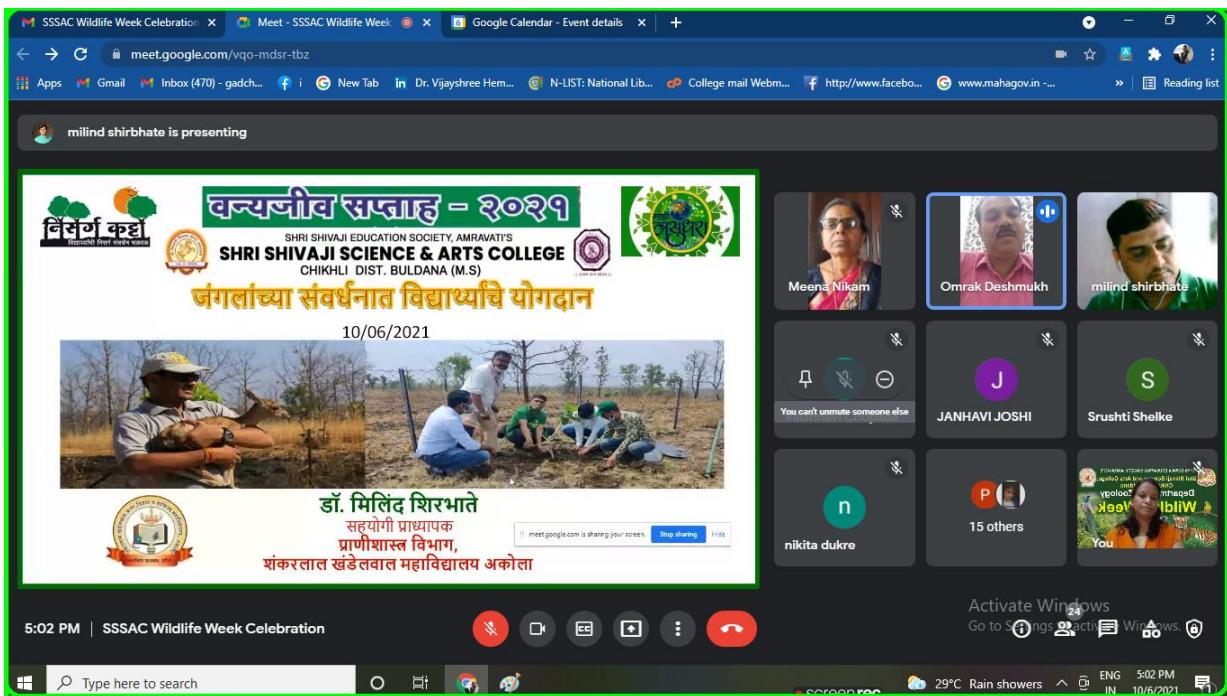
**To raise Awareness regarding sparrow habitat conservation, informative talk organized in hall.**

**World Sparrow Day celebrated in classroom as well as at field**



**World Sparrow Day was organized on 20th March 2022 at Shri Shivaji College here. The theme of the program was expanding natural habitat of sparrows for sustainable conservation. Awareness regarding Sparrow Conservation was made in Classroom And on the field by installing Clay pots and Bird Feeder**

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



**Resource person : Dr. Milind V. Shirbhate Associate Professor in Zoology. Shankarlal Khansdelwal ASC College, Akola Topic “Role of students And Teachers in Wildlife Conservation”**



**Resource person Shri Kisho Padol Range Forest Officer Khamgaon Topic “ Deforestation & Man-Animal Conflicts” Department of Zoology of Shri Shivaji Science College Chikhli, organized invited talk to create awareness about Wildlife Conservation and Protection. Due to pandemic were organised through online mode. Invited talk on dated 06/10/2021 and 08/10/2021**

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



To make students aware of environmental issues and enrich their thought process regarding environmental issues. NSS Volunteers has planted the seedlings of variety of *Ocimum Sanctum* on 20/08/21. Near about 5 different varieties of basil has been planted. Citizens and visitors to our college appreciated NSS volunteers about this innovative activity

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



**On the occasion of World Environment Day, 05 June 2022, Seed Ball Preparation Workshop was organized by department of Botany in Collaboration with Mahatma Gandhi National Council of Rural Education. 21 students participated in this workshop, in which students made seed balls for plantation.**

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



**To Promote the cultivation and conservation of Medicinal Plants, Department of Botany organized Medicinal Plant Exhibition on the occasion of National Sciences Day, 28 Feb 2022. The students collected over 26 varieties of plants which are of medicinal importance.**

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



**To create awareness among students and staff “Eco-friendly Holi Colors Preparation Workshop” was organized on 15th March 2022. Natural colors were prepared from flowers of *Butea monosperma*, Leaves of Spinach, and Beet root**

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



**To celebrate the spirit of Raksha Bandhan, the Department of Botany, Shri Shivaji Science and Arts College Chikhli, organized an Eco-friendly Rakhi making competition in the college campus on 8th August 2022. All the students showcased their artistic skills to weave magic with colorful threads and eco-friendly materials. 14 students are participated in this event out of that best three Rakhi selected by selection panel**

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

## BOTANY ECOFRIENDLY RAKHI CELEBRATION ENVIRONMENT



Eco-friendly  
Rakshabandhan



*Dr. Omraj S. Deshmukh*  
Dr. Omraj S. Deshmukh  
Principal  
Shri Shivaji Sci. & Arts  
College, Chikhli, Dist. Buldana

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

## **Academic Session 2020-21**

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

## Activities Conducted for the Address to Professional Ethics

### GeoTag Photo on National Level Workshop on Big Data



### Convener Address by Dr. A.B.Kadam

मंगळवार ३० मार्च २०२१ पृष्ठे : ४

## श्री शिवाजी विज्ञान व कला महाविद्यालयामध्ये Cryptocurrency या विषयावर राष्ट्रस्तरीय कार्यशाळा घेण्यात आली.

**चिखली/प्रतिनिधी:** स्थानिक श्री विज्ञानी विज्ञान व कला महाविद्यालय चिखली येथे दि. २६/०३/२०२१ शुक्रवारी Cryptocurrency या विषयावर राष्ट्रस्तरीय कार्यशाळा घेण्यात आली. या कार्यशाळेला मार्गदर्शक म्हणून एन. डी. ए. खडकवासला, पुणे येथील प्रो. वित्ता देसाई यांनी मार्गदर्शन केले. कार्यशाळेले अव्यवस्थानी प्राचार्य डॉ. अनिल एम. गारोडे होते. कार्यशाळेच्या उद्घाटक IQAC Coordinator प्रो. वनिता पोदकरी उपस्थित होत्या. या कार्यशाळेसाठी ११७ लोकांनी सहभाग घेतला. त्यात महाराष्ट्राच्याबताच भारताच्या इतर राज्यातील लोकांनी सुदृढा सहभाग नोंदविला. प्रो. वित्ता देसाई मैठम यांनी मार्गदर्शनामध्ये modern cryptography, डिजिटल Signature, Blockchain, यांचे महत्व सांगून त्याचे बरोबर Bitcoin चे महत्व सांगताना त्या म्हणाल्या की, क्रिप्टो करन्वी म्हणाले आभारी चलन. घलनी नोटांना पर्याय असणारी एक डिजिटल या व्हार्टुअल करनवी. म्हणजे हे चलन भारतीय रूप्या, अमेरिकन डॉलर या ब्रिटीश पॉलिसारवं नसती. कोणत्याही देशांचे सरकार या बंक हे चलन यापलाई नाही. क्रिप्टोकरन्वीसाठी ब्लॉकचेन हे टंत्रज्ञान यापरलं जातं. ब्लॉकचेन म्हणजे सोप्या भाषेत Chain of Blocks यिंवा

रेकॉर्ड्सांची लिस्ट परिणामी हे व्यवहार अतिक्रम सुरक्षित होतात आणि ही यंत्रणा हँक करण्यां शक्य नसते. पण जमेची बाजू, म्हणजे डिजिटल करनवी असल्याने फक्तचलं जाप्याची शक्यता उरत नाही. विटकाईन, लाईटकाईन, रिपल, इथेसियम आणि डोड वैश नावाच्या काही क्रिप्टोकरन्वीज प्रसिद्ध आहेत. विटकाईन ही एक प्रकारची क्रिप्टोकरन्वी आहे. विटकाईन हे रूप्या, डॉलर किंवा इतर कुठल्याही चलनाप्रमाणे एक चलन असत. फक्त ते अंनलाईन असत आणि एका कम्प्युटर कोडद्वारे एनक्रिप्टेड म्हणजे लोक केलेले असत. ज्ञा आपल्याला बैंकांनसून नोटा निकालत तसेच इच्छेही अंनलाईन साईट्सवर हे चलन तुम्हाला तुमच्याकाळच्या पैशातून खरेदी करता येत.

संगणक विभागाचे प्रमुख डॉ. अविनाश कदम हे कार्यशाळेये संयोजक होते, कार्यशाळेच्या समन्वयका डॉ. मुक्ती जाधव ह्या होत्या. तांत्रिक संवित डॉ. शोनाली गायकवाड यांनी आभार प्रदर्शन केले. प्रा. दिलीप गावडे, श्री. सविन चव्हाण, श्री. राहुल भटकर यांनी मोलाचे सहकार्य केले.

Department of Computer Science organized a workshop on Cryptocurrency on 26/03/2021

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## Activities Conducted for the Address to Gender Sensitization

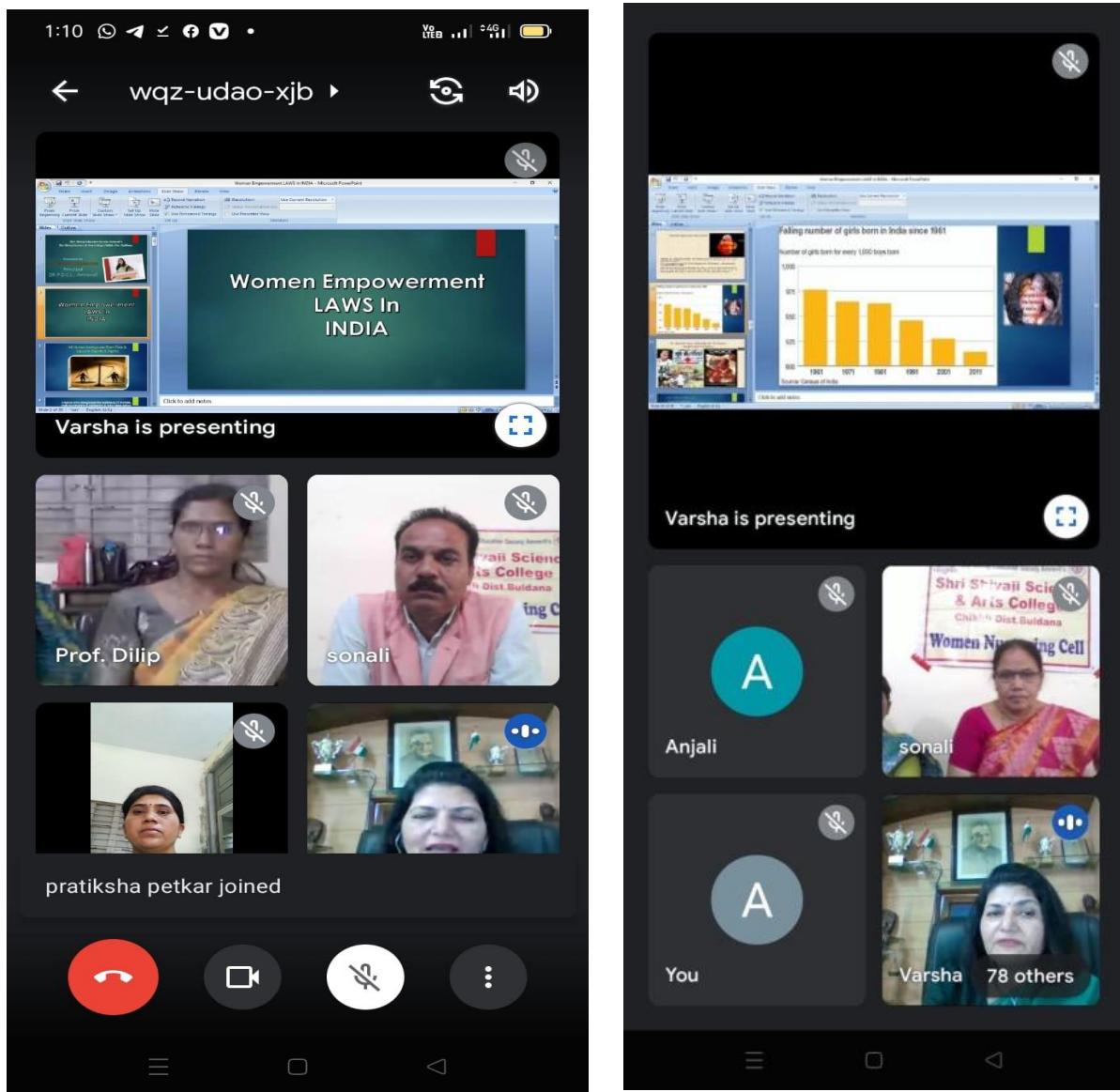


**On 24 Jan 2021 National Girls Child Day Celebrated with Women and Child Minister  
MLA Shrimati Yashomati Thakur**



**On 24 Jan 2021 National Girls Child Day Celebrated with Women and Child Minister  
MLA Shrimati Shweta Mahale**

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



**ICC Cell of the College And Women Development Cell organized a Workshop on “Contribution of historic Great Women in Women Empowerment” on 4th Jan 2021**

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



**ICC organized a National Level Workshop on Microgreen on 08/03/2020**  
**Resource person was Dr. Suchita Khodke-Assistant Prof. in Botany. Vinayak Mahavidyalaya, Nandgaon Khandeshwar. She emphasized on Use of nutritious diet for maintaining health of Women**

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

## Activities Conducted for the Address to Human Values



**NCC students actively participated in Swachchha Bharat Abhiyan on 27/12/21**

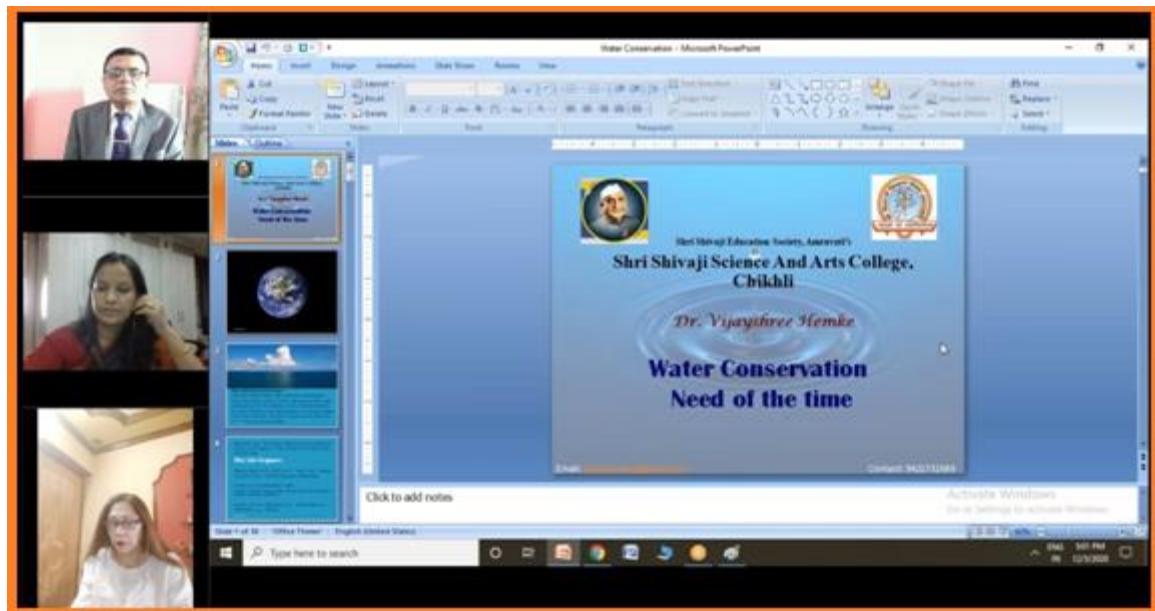
**1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**



**Department of Economics organized online guest Lecture on Celebration of World Population Day (Human Values) on 11 July 2021. Resource person was Dr. R. Y. Mahore**

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

Date	Resource Person	Title of Speech	05:00 pm
<b>1</b>	Dr. Aruna Chaudhari, University Law College, Rajasthan	A social awareness for Child Labour prevention	
<b>2</b>	Dr. Namrata Girish Mahajan, Moolji Jaitha College Jalgaon.	Ornamental fish opportunity for sustainable development.	
<b>3</b>	Dr. Reeta Dwivedi, MIER College of Education Jammu, J&K.	Challenging Gender Inequality: Role of Teacher, School & Society	
<b>4</b>	Mrs. Neetu Sharma Guru Nanak College of Arts, Science Commerce, Mumbai.	Effect of climate change on human life	
<b>5</b>	Dr. Vijayshree Milind Hemke, Shri Shivaji S&C College, Chikhli.	Water conservation: Need of time	
<b>6</b>	Dr. Megha K. Juvekar, Nirmala Memorial Foundation A&C College, Mumbai.	NSS and Social Development	
<b>7</b>	Prof. Ritu Kashyap, Balbharati's M.J.P. College of Commerce, Mumbai.	Social media and today's youth	

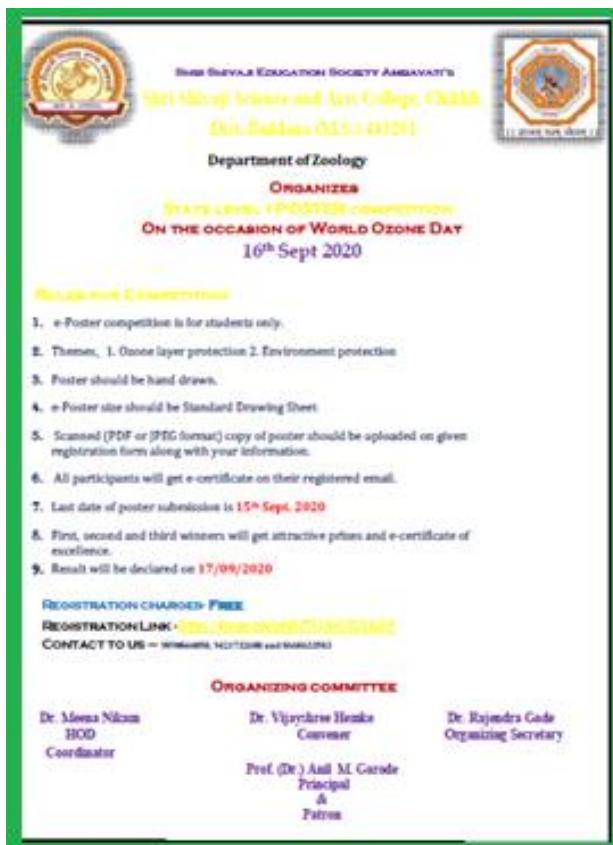


**Dr. Vijayshree Hemke delivered guest Lecture (GoTOMeeting App) on Water Conservation: Need of Time. This event is hosted by NSS Department, Shri Kumarswami Mahavidyalaya, Ausa Di: Latur M.S. on The occasion of Golden Jubilee of the college on 05th December, 20**

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



To raise awareness of Ozone Layer wrote Newspaper Article on Save Ozone Layer by Dr. V. M. Hemke on 16/09/2020



Ozone Day Celebration: Brochure of Ozone Day Celebration by organizing competitions (Online)

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



**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI**  
**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE, CHIKHIL**  
**DIST. BULDANA (M.S.) 443201**

DEPARTMENT OF ZOOLOGY, BOTANY AND MICROBIOLOGY  
ORGANIZES  
NATIONAL WEBINAR  
ON 28/07/2020 ON 10:45 A.M.




Registration charges- Free  
Registration Link- <https://forms.gle/4SWuDQjGjzvpZcac8>  
Link for Telegram group –  
<https://t.me/joinchat/SDdXhmxzD27b0Nx02WYCW>

SCHEDULE OF WEBINAR		
Time	Program/Topic	Resource Person
10.45 AM	Welcome Address	Dr. V U Pochhi IQAC Coordinator
10.50 AM	Inaugural Address	Dr. A M Garode Principal Shri Shivaji Science And Arts College, Chikhil
10.55 AM	Introduction of Resource Person	Dr. V M Hemke Convenor
11.00 AM	Resource Person-I Topic-Birds and Flower Birds Ornithophily	Dr. Raju Kasambe Assistant Director-Education Bombay Natural History Society Mumbai
12:00 Noon	Vote of Thanks	Dr. M T Nikam HOD Zoology Department
12.05 AM	Introduction of Resource Person	Dr. V M Hemke Convenor
12.10 PM	Resource Person-II Topic is- Yes! We are Healthy!	Dr. Satish Kale Joint Replacement Surgeon, Lokmanya Hospitals, Pune.
1:10 PM	Vote of Thanks	Prof. S N Mendhe Microbiology Department

The webinar will be conducted on Zoom app

- ❖ All participants are requested to kindly download zoom app in your PC/Mobile.
- ❖ Kindly join the webinar before 10 minutes by clicking on given link in telegram group.
- ❖ E-certificate will be provided to the participants after successful completion of webinar.
- ❖ Feedback link will be share after completion of the webinar

**Organizing committee**

Prof. Anil Garode- Principal,SSSAC Chikhli	Dr.V M Hemke (Dept. of Zoology)-Convenor
Dr.V U Pochhi- IQAC Coordinator & HOD Botany	Mr. D L Gavande(Botany) Organizing Secretary
Dr. M T Nikam-HOD Zoology-Convenor	Mr. M D Kolte (Botany)-Organizing Secretary
Mr. S N Mendhe- Dept. of Microbiology Organizing Secretary	Dr. R B Gade Dept. of Zoology Organizing Secretary

For More Details Contact to:

<b>Dr. V. M. Hemke.</b> Convenor 9421732680	<b>Mr. D. L. Gavande</b> Organizing Secretary 9011138879	<b>Mr. M. D. Kolte</b> Organizing Secretary 8888154009
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## Bird flowers and flower birds (Ornithophily)

  
**Dr Raju Kasambe**  
Assistant Director – Education  
BNHS, Mumbai

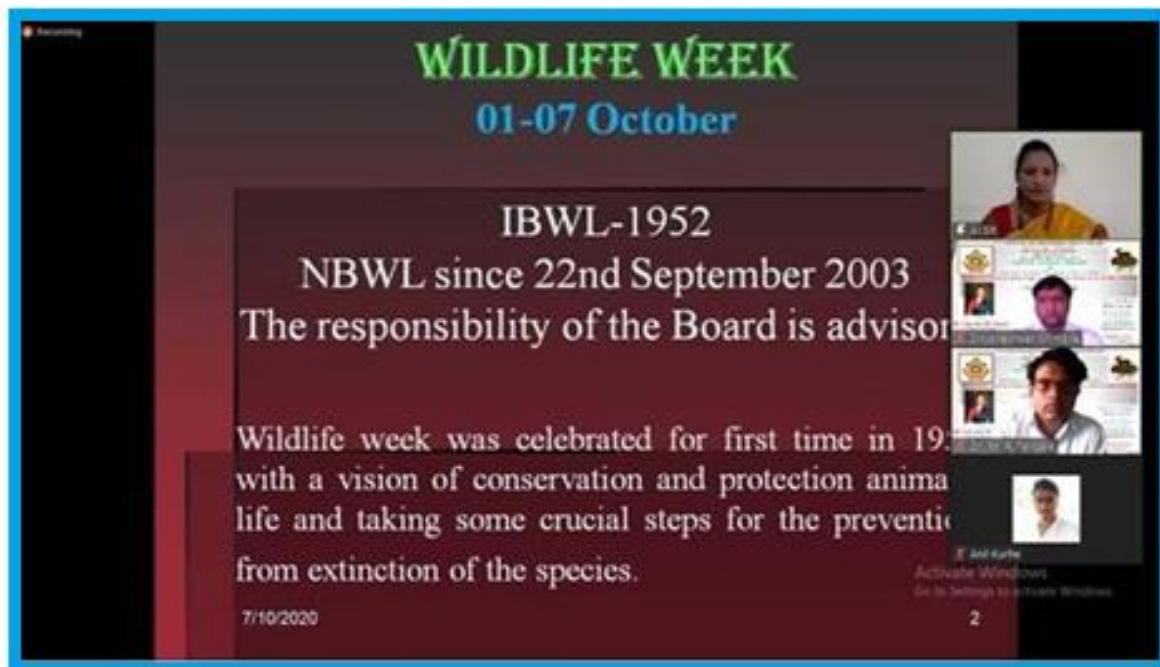
zoom

**Organizes National Webinar on 1) Bird Flower And Flower Bird and  
Resource person: Dr. Raju Kasambe**

**2) On “Yes, We are healthy!” to raise awareness regarding Covid-19 on  
28/07/2020**

**Resource person is Dr. Satish Kale  
Joint Replacement Surgeon, Lokmanya Hospitals Pune.**

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



**Dr. Vijayshree Hemke delivered guest Lecture (Zoom App) on “Celebration of Wildlife Week” This event is hosted by Zoology Department, Shri Vyanktesh Mahavidyalaya, D. Raja on The occasion of Wildlife Week on 7th Oct 2020**

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

# श्री शिवाजी महाविद्यालयात जागतिक चिमणी दिवस साजरा



विषयाली, २१ मार्च (गुरु इविर्विंग सिटी) : येथील श्री शिवाजी महाविद्यालयामध्ये २० मार्च २०२१ रोजी जागतिक चिमणी दिनाचे आयोजन करण्यात आले. या निमित्ताने पक्षीतज्ज प्रा.डॉ. प्रवीण जोशी, अमोलकंद महाविद्यालय, यवतमाळ यांचे आभासी पद्धतीने व्याख्यान आयोजित करण्यात आले होते.

व्याख्यानाचा विषय, जागतिक चिमणी दिनाचे आयोजन- काळाजी गरज हा होता. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचारार्थ डॉ. अनिल गारोड होते. आपल्या अध्यक्षीय भाषणातून बोलताना त्यांनी मानवी जीवनासाठी पक्षयांचे अविभाज्य महत्व विषद केले. कार्यक्रमाचे प्रास्तातिक प्राणीशांख विभागप्रमुख प्रा.डॉ. मीना निकम यांनी केले. आपल्या प्रास्ताविकात बोलताना डा. निकम यांनी चिमणी व काही पक्षांच्या प्रजाती वेगाने नष्ट होत आहेत याची जाण विद्यार्थीद्वारात व्याख्या तसेच पक्ष्यांच्या संवर्धनासाठी अशा प्रकारचे उपक्रम

राबविणे गरजेचे असल्याचे स्पष्ट केले. आपल्या उद्घाटनपर भाषणात महाविद्यालयाच्या खट-३ समन्वयक प्रा.डॉ. वनिता पोचडी यांनी कार्यक्रमाचे उद्घाटन करून शुभेच्छा दिल्या. आपल्या व्याख्यानात बोलताना प्रा.डॉ. प्रवीण जोशी यांनी जागतिक चिमणी दिनाचे महत्व तसेच दुर्मिळ होत जाणाऱ्या पक्षयांच्या प्रजातीकडे लक्ष वेधले आणि पक्षी संवर्धनासाठी विद्यार्थ्यांची महत्वाची भूमिका विषद केली. प्रमुख वक्ता प्रा.डॉ. प्रवीण जोशी यांनी पक्षीतज्ज म्हणून केलेले कार्य व त्यांचा परिचय प्रा.डॉ. विजयश्री हेमके यांनी करून दिला. तसेच प्रा.डॉ. विजयश्री हेमके यांनी कार्यक्रमाचे आभारप्रदर्शनही केले. या कार्यक्रमाला विद्यार्थी स्तरावर विद्यार्थ्यांचा भरपोस प्रतिसाद लाभला. सवर कार्यक्रमाच्या यशस्वीतेसाठी विश्वानाय सावळे व रहीम शेळ यांनी परिश्रम घेतले. कार्यक्रमासाठी प्रा.डॉ. गणेश शोरात, प्रा. विलीप गावऱे, प्रा. मुकुंद कोलते व प्रा.डॉ. सोनाली गायकवाड यांनी तेच सहाय्य केले.

**Department of Zoology organized a Guest Lecture on “World Sparrow Day” of Prof. Dr. Praveen Joshi Amolakchand Mahavidyalaya, Yevatmal on 20<sup>th</sup> March 2020**



*Omraj S. Deshmukh*  
Dr. Omraj S. Deshmukh  
Principal  
Shri Shivaji Sci. & Arts  
College, Chikhli, Dist. Buldana

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

गुरुवार ६ मे २०२१

पृष्ठे : ४ क्रिमत २ रुपये

## श्री शिवाजी महाविद्यालयात ऑनलाईन राज्यस्तरीय निबंध स्पर्धा संपन्न

विषयाती/प्रतिनिधी: स्थानिक श्री शिवाजी महाविद्यालयात दरवर्षी २२ एप्रिल सेवा यजमातिक वस्तुव्यात दिन साजरा वरप्प्यात येती. यावर्षी वनस्पतीशास्त्र विभागातीक राज्यस्तरीय निबंध स्पर्धा आयोजित करण्यात आली.

पंचमहामूर्ते हा आपल्या संस्कृतीया पाया आहे आणि पृथ्वी यांपैकी एक आहे. आज नवोबल्यायांवैशाख्याता काळात आपल्याकडून कलत नकलत पृथ्वीला विनाशकरी असूया यांनी गोही केल्या जातात. पृथ्वीला सामद्दो ल राखण्यासाठी आपल्याला अधिक सजग राहुन आपल्याच जीवन जीलत सकारातमक बदल घडवून आणण्याची वेळ आली आहे. त्यासाठीच जागतिक वस्तुपत्रा दिनाच्या माध्यमातून समाजात

अधिक जनजागृती निर्माण करण्यासाठी राज्यस्तरीय निबंध स्पर्धेचे आयोजन वरप्प्यात आले. या स्पर्धेसाठी तुकातसर्वेकून काळात गरज, जलप्रदूषण, वायुप्रदूषण, जलचुनरेण, असे वेगवेगळे विषय देण्यात आले. या विषयावरील निबंध दिनांक २२ ते ३० एप्रिल यादरम्यान ऑनलाईन लिंकावर बोलविण्यात आले. यामध्ये पुणे, नाशिक, अमरावती, बुलडाणा जिल्हावरील ४८ निबंध प्राप्त झाले. त्यात कु. आरती घंटेश्वर मिटकरी वी. एड प्रधम वर्ष भाऊसाहेब पाटील कांगेज वीड यांना प्रथम क्रमांक रु ७०० रोख बक्सीस प्राप्त झाले. द्वितीय क्रमांक रणधर्म राजेंद्र साठवे वर्ष १९८० श्री शिवाजी विजान व कला महाविद्यालय यांच्याता दिनाच्या माध्यमातून समाजात

तुलीव्य क्रमांक कु. आचल सुरेशराव बंसरले महात्मा फुले महाविद्यालय वरुड यांना रु ३०० रोख बक्सीस प्राप्त झाले. कु. सानवी नारखेड वर्ग ७वा सापरवत्ती शाळनी शाळविनियात आयोजित करण्यात आली. या स्पर्धेसाठी प्राप्त झाले. या स्पर्धेसाठी प्राप्त झाले. मालवे श्री चौधू रुपर्धा समन्वयक, प्रा. मुंगुद कोलाळे, प्रा. दिलीप गावेंड, प्रा. डॉ. अवित वाळे यांनी आयोजन संविध म्हणून काम केले.

विभाग, प्रा. योगिनी सुरुदयकर पर्यावरक यांनी परीक्षक महाणून काम पाहिले. या स्पर्धेसाठी प्राचार्य डॉ. अमिल गारेडे यांचे मार्गदर्शन लाभले. प्रा. डॉ. विनिता पोद्धो रुपर्धा समन्वयक, प्रा. मुंगुद कोलाळे, प्रा. दिलीप गावेंड, प्रा. डॉ. अवित वाळे यांनी आयोजन संविध म्हणून काम केले.

### Chemistry Soil & Water Analysis



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### Department of Chemistry

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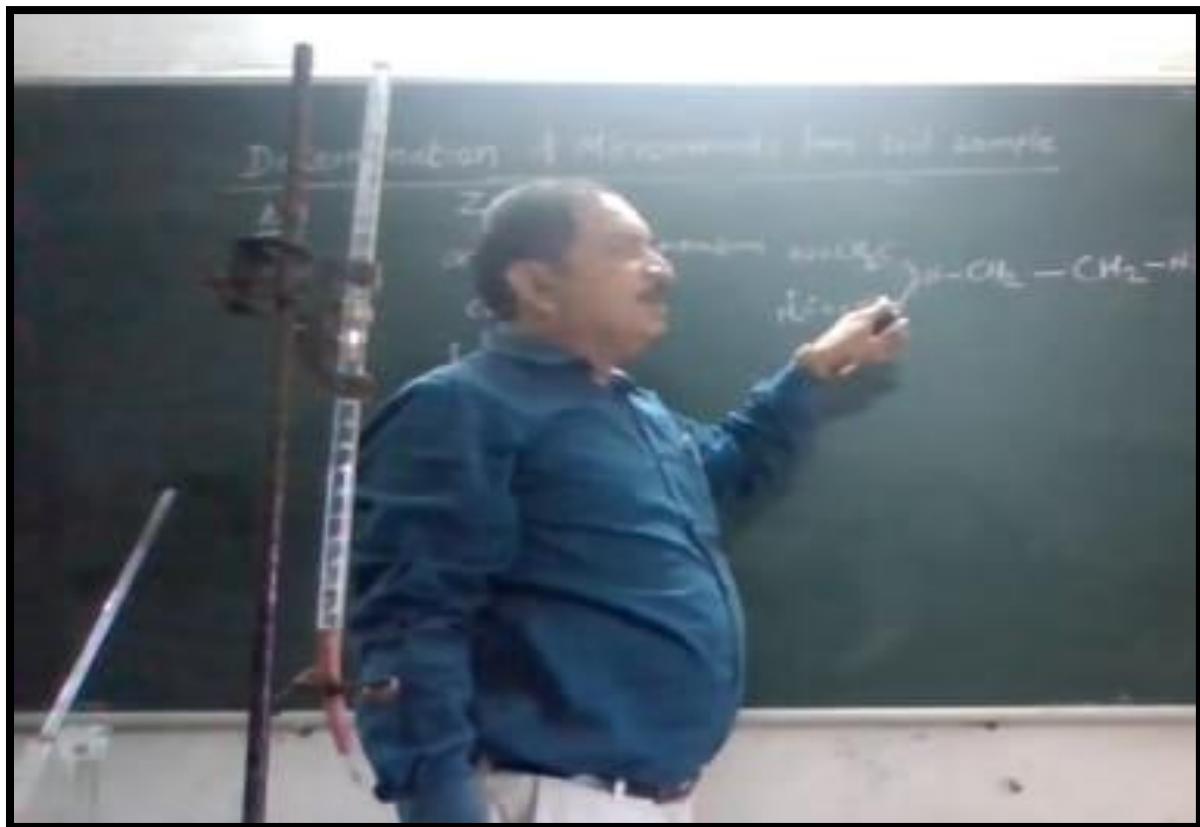
## Soil and Water Analysis

16 September - 21 September 2021

Time: 12.00 to 5.00 PM



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



A program on Human Rights Department of Political Science



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

## देशोन्नती



# महिला - सांस्कृतिक

## श्रीशिवाजी महाविद्यालयात महिला सक्षमीकरण आणि भारतीय कायदे या विषयावर कार्यशाळा

विषयाती ■ स्वानिक श्री शिक्षकी  
महाविद्यालयात 'women  
Nurturing cell & IQAC  
याचा संकुल विभाने 'महिला सक्षमीकरण आणि मार्गीय कायदे' या विषयवर कार्यशाळा संप्रवर्त्यात अप्यायित करावारात आली.

कार्यशाळेची अध्यापकांसाठी  
महाविद्यालयाचे प्रवाचन झों, ओमराज देशपांडे होते. त्यांनी आकाया असंवित याचावारातुन आली जगातील महिलांना विविध वेळात जास्त सामाजिक, पर्यायिक विधि, शेषांकित, आर्थिक व सांस्कृतिक निर्णय घेण्यास त्याना दुखमान दिले आते. महिलांना स्वतः कन्दन असण सकाऱ्या आणि राष्ट्रांत भवलाना कठ शकावती.

कार्यशाळेचे प्रमुख कर्ता प्राचार्य झों, वर्षी देशपांडे, झों, बंगालवाराव देशपांडे विधि विभान्यालाय, अमराती अंगी या कार्यशाळेटा मार्गदर्शक करावारा भारतीय राज्यव्यवस्थेनील महिलांना मिळालेले



मुळ मुळ अधिकार जसे घरांवृती हिसा, हुंदा प्रतिवृत्ती कावाचा, समान नारीगी कावाचा, याचावाचा विस्तृत मार्गदर्शन केले.

विस्तृत होणाऱ्या एक लाळ तुळाविकी व ३५,००० लॅंगिक प्रकाळ टावाचाचा घटन वारां त्यांनी विद्यार्थ्यांना आणि दिगं भेद याचावाचा विद्यार्थ्यांना आवाजी देण्यात आली.

अशाळी आणि त्यांनी या कार्यशाळेटा मार्गदर्शक करावारा भारतीय राज्यव्यवस्थेनील महिलांना मिळालेले

आवाहन केले. झों, बंगालवारा यांनी IQAC समन्वय व्यापारांमध्ये स्वागतपर भाषणात्तमां महाविद्यालयाच्या महिला कावाचां आणि IQAC व्यापारांमध्ये महिला सक्षमीकरणासाठी विविध उपकारांचे आपांनांनी केले जाते. झों, मिना निवारणी यांनी जागरूकासाठी प्रसारित कावाचावाचा त्रृतीय काविशाळेचा हेतु स्वतंत्र केला. झों, अनुराग विश्व यांची काविशाळेच्याको प्रमुख कर्ता प्राचार्य झों, वर्षी देशपांडे

याचा परिचय करान दिला.

कार्यक्रमाचे संचालन झों, सुनिती काठावारा यांनी केले तर आपां प्रदर्शन ठाडा. त्यांनी यांनी तंत्रज्ञानाच्यक मधुन ३०. सोनाली गणपातीदांडा, प्रा. दिलीप शांको व झों, घरंवर्य भैरव काळ विलेली काविशाळेच्याको याचावाचातही आली. शाळिणी काठोले यांनी प्रत्र केले, वा काविशाळेच्येको २० रु. महिला, लिंगाची व विद्यार्थ्यांनी स्वतःमाग घेतला. ती काविशाळेच्याको याचावाचा आमांची पदवीनी घेण्यात आली. (ता.प्र.)

## **Women Empowerment and Laws workshop organized on 21/07/21 by Women Nurturing Cell & IQAC of the College.**

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

## श्री शिवाजी विज्ञान व कला महाविद्यालया- मध्ये फिटनेस शिविराचे उद्घाटन

घिखली प्रति.: स्थानिक श्री शिवाजी विज्ञान व कला महाविद्यालयामध्ये महिला विकास कला, आय. क्यू. ए. सी. सेल व शारीरिक शिक्षण विभागातील फिटनेस शिविराचे उद्घाटन झाले असून 25 ते 30 नोव्हेंबर या दरम्यान महिला व विद्यार्थिनी साठी या शिविराचे आयोजन करण्यात आले आहे. आजच्या धावपक्षीच्या प्रचंड ताणतणावाच्या परिस्थितीमध्ये आपले

शारीरिक, मानसिक, सामाजिक स्वास्थ्य विधत चालले आहे. सोबतच चुकीची जीवनशैली व खानपान यामुळे आपली रोगप्रतिकार शक्ती कमी झाली आहे. आपले आपोम्य स्वस्य टेवण्यासाठी, निरोगी टेवण्यासाठी आयुष्याचा भूलम्बव देणारे. पाच विवसीय फिटनेस शिविराचे आयोजन केले आहे. वेळेस कोली यांनी, बदना राजपूत, सौ. सुजाता मराठे, सौ. कावन ठेंग व प्राचार्य डॉ. ओमराज एस. देशमुख यांच्या अध्यक्षतेत या शिविराचे आयोजक डॉ. अनुषागा रा. मुळे (समन्वयक, महिला विकास कला) डॉ. वनिता पोचंडी (समन्वयक, आय क्यू. ए. सी. सेल), प्रा. सचिन कोकोडे (शारीरिक शिक्षण विभाग) यांनी विशेष परिश्रम घेतले. तसेच प्रा. योगिनी मुडकर, प्रा. शालिनी काटोले, डॉ. मीना निकम, डॉ. सुनिता कलारे, डॉ. मुक्ती जाधव, डॉ. पल्लवी नर्ले, डॉ. सोनाली गायकवाड, डॉ. पृष्ठा दाळिकर, प्रा. तृष्णा श्रीरामे, कृ. खिल्लीरे व विद्यार्थिनी उम्फूर्त प्रतिसद दिला.



**Fitness camp organized for Female Students & Staff on 25/11/2021 by Women Nurturing Cell of the College.**



**Savitribai Fule (First Lady Teacher of Maharashtra) birth Anniversary celebrated on 03/01/2022. By Internal Complaint Committee And Women Nurturing Cell.**



*Dr. Omraj S. Deshmukh*  
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Principal  
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दैनिक

शेतकऱ्यांच्या हळाचं विचारपीठ.....

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# कृषान सभा

मानद संपादक : गुलाबराव खेडेकर

य संपादक: संजयकुमार खेडेकर

kisansabha2015@gmail.com

कार्यकारी संपादक: गजानन खेडेकर

गुरुवार ६ मे २०२१

पृष्ठे : ४

किंमत २ रुपये

## श्री शिवाजी महाविद्यालयात ऑनलाईन राज्यस्तरीय निबंध स्पर्धा संपन्न

**चिखली/प्रतिनीधी:** स्थानिक श्री शिवाजी महाविद्यालयात दरवर्षी २२ एप्रिल शेजी जागतिक वसुंधरा दिन साजरा करण्यात येतो. याचर्थे वनस्पतीशास्त्र विभागातके राज्यस्तरीय निबंध स्पर्धा आयोजित करण्यात आली.

पंचमहाभूते हा आपल्या संस्कृतीचा पाया आहे आणि पृथ्वी यापेकी एक आहे. आज म्लोबल्यायझेशनच्या काळात आपल्याकडून कळत नकळत पृथ्वीला विनाशकरी अस्या वाही गोटी केल्या जातात. पृथ्वीचा समाचौल राखण्यासाठी आपल्याला अधिक सजग राहून आपल्याच जीवन शैलीत सकारात्मक बदल घडवून आणण्याची वेळ आली आहे. त्यासाठीच जागतिक वसुंधरा दिनाच्या माध्यमातून समाजात

अधिक जनजागृती निर्माण करण्यासाठी राज्यस्तरीय निबंध स्पर्धेचे आयोजन करण्यात आले. या स्पर्धेसाठी वृक्षसंरक्षण काळाची गरज, जलप्रदूषण, वायुप्रदूषण, जलपुनर्जन, असे वेगवेगळे विषय देण्यात आले. या विषयावरील निबंध दिनांक २२ ते ३० एप्रिल यादरम्यान ऑनलाईन लिंकवरै बोलविण्यात आले. यामध्ये पुणे, नाशिक, अमरावती, मुलांडा जिल्ह्यातील ८८ निबंध प्राप्त झाले. त्यात कु. आरती चंद्रशेखर मिटकरी बी. एड. प्रथम वर्ष भाऊससाहेब पाटील कॉलेज बीड यांना प्रथम क्रमांक रु ७०० रोख बक्षीस प्राप्त झाले. द्वितीय क्रमांक रणधरिर राजेंद्र साळवे वर्ष ११वा श्री शिवाजी विज्ञान व कला महाविद्यालय चिखली याला रु ५०० रोख बक्षीस प्राप्त झाले.

तृतीय क्रमांक कू. आचल सुरेशराव बंसले महात्मा फुले यांना रु ३०० रोख बक्षीस प्राप्त झाले. कु. सानवी नाराखेडे वर्ष १२वा सरसवाती झंजी शाळा नाशिक हिला प्रोत्साहन पर ८०० रुपये २०० बक्षीस प्राप्त झाले. या स्पर्धेसाठी प्रा. डॉ. गणेश मालटे मराठी विभागमुख, प्रा. डॉ. इन्दिराज जुगालकर झंजी

विभाग, प्रा. योगिनी सुरडकर पर्यवेक्षक यांनी परीक्षक म्हणून काम पाहिले. या स्पर्धेसाठी प्राचार्य डॉ. अनिल गारेडे यांये मार्गदर्शन लाभले. प्रा. डॉ. विनिता पोद्धुरी स्पर्धा समन्वयक, प्रा. मुकुद वोलते, प्रा. दिलीप गावडे, प्रा. डॉ. अंकित वाळे यांनी आयोजन सचिव म्हणून काम केले.

**On 22 April 21 Botany Department organized State Level Essay Competition**

**Winners are**

**First Winner:** Ms. Arti Chandrashekhar Mitkari. Bausaheb BEd College, Beed

**Second Winner:** Randhvir Rajendra Salve Shri Shivaji Science And Arts College, Chikhli

**Third Winner:** Anchal Sureshrao Bansale, MF College, Warud

**Consolation Prize:** Sanvi Narkhede Class-9 th Sarswati English School, Nasik.



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## **Academic Session 2019-20**

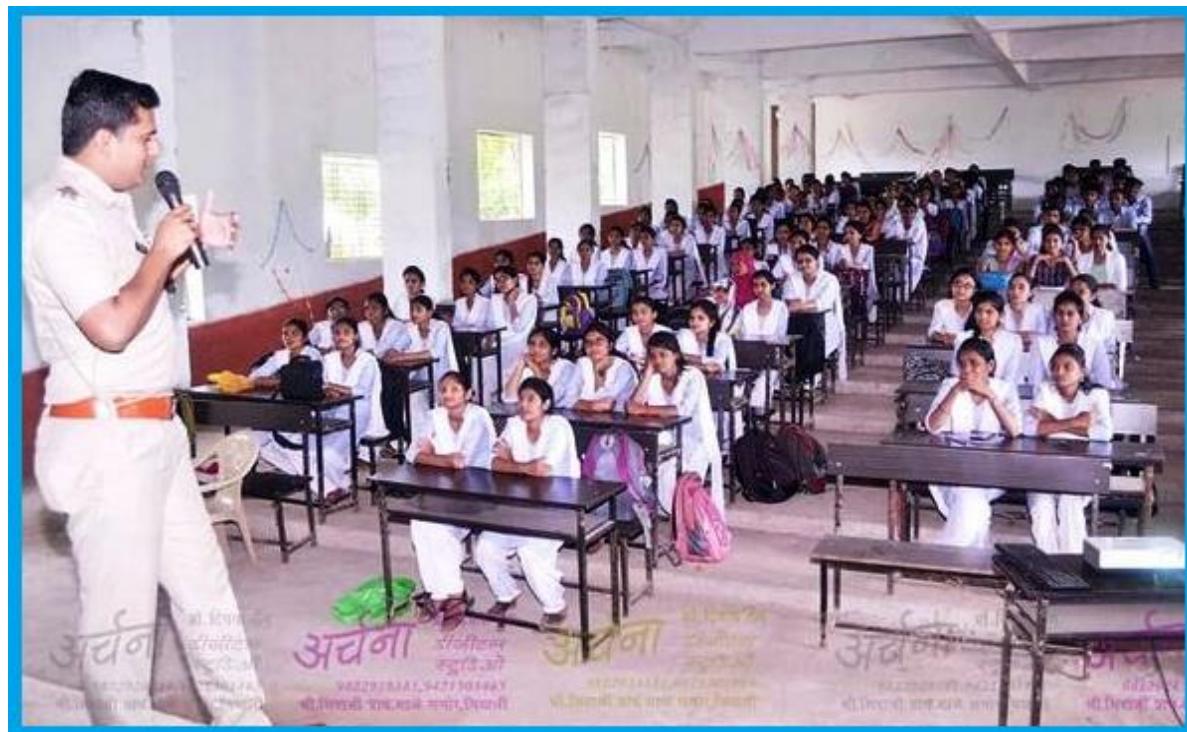
**1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

## Activities Conducted for the Address to Professional Ethics



**Department of Computer Science organized a state level workshop on “Ethical Hacking” on 04/03/2020**

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



**A workshop organized on, Cyber Crime & Security" on 16/09/2019. Mr. Pravin Sonavane PSI, Coordinator of Cyber Cell of Chikhli Police Station was the Resource Person. He explained Care to be taken while handling on-line transaction, Facebook, Whats App and other Social Media**

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

## Activities Conducted for the Address to Gender Sensitization



ICC organized a workshop on “Women’s Empowerment and Awareness”

A newspaper clipping from 'Chikli Sambhav' dated 17 February 2020. The headline reads 'श्री. शिवाजी महाविद्यालयात महिला तक्रर निवारण कक्ष आणि महिला विकास कक्षाच्या वतीने कार्यशाळा' (Shri Shivaji College organized a workshop on women's empowerment and awareness). The article discusses the workshop's aims to sensitize students and faculty about gender issues and provide them with tools to combat them. It features several photographs of the event, including a speaker at a podium and students in the audience. The newspaper's masthead and date are visible at the top.

Women’s Grievance Redressal Cell, Shri Shivaji Science & Arts College, Chikhli, organized one day workshop dt. 12th February 2020.on “Women’s Empowerment and Awareness” total 81 Undergraduate and Postgraduate students from different colleges was registered and attended this workshop.



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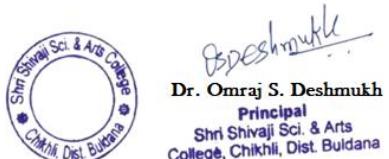
## Activities Conducted for the Address to Human Values



Oratorical Competition organized on Mahatma Gandhiji during Annual Gathering-2019



Department of Political Science organized a workshop on 27 Dec 2019. Topic was Dr. Panjabrao Deshmukh “Life and Work” on the occasion of 120th Birth Anniversary of Dr. Panjabrao Deshmukh.



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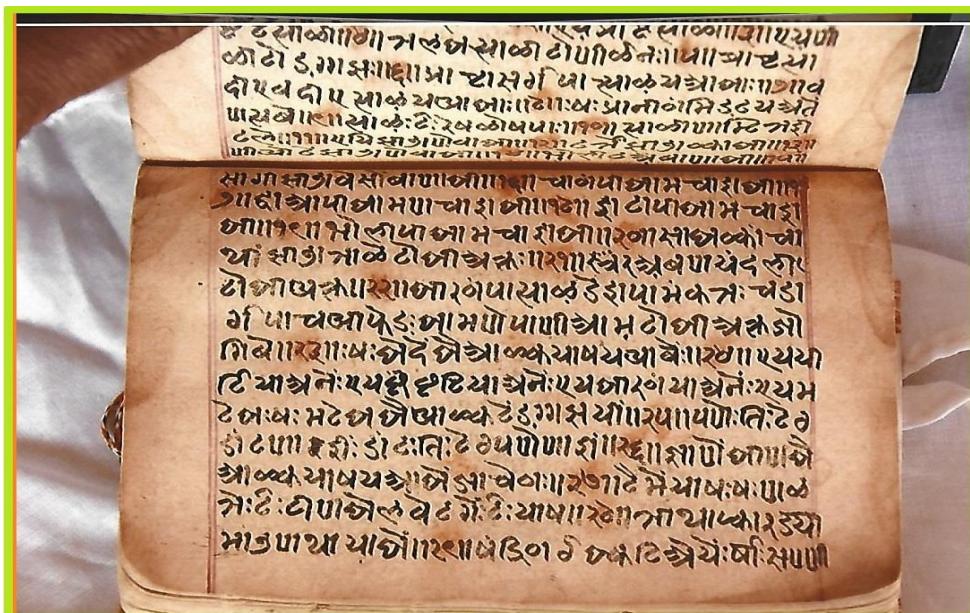
**Department of Political Science organized a Shri Shivaji Yuva Bhusan Competition on 22 Dec 2019 in collaboration with Yuvak Biradari (India) Mumbai.**



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



**Department of Marathi organized Saint Chakradharswami Lecture series which was inaugurated by the hands of Shri. Sheshrao Khade, Secretary of the Society on 18 Dec 2019. During this series, Exhibition of Literature of Saint Chakradharswami was organized. Staff and students attended this program. The most important exponents of the Dvaita tradition within Hinduism. He is the founder of Mahanubhava Sampradaya of Krishnaism.**



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

## Activities Conducted for the Address to Environment and Sustainability



Department of Zoology organized Field Visit at Dr. Panjabrao Deshmukh Krushi Vidyapeeth, Akola on 22 Oct 2019. Dr. Mrs. Thorat-Associate Professor in Entomology was guide us and visited to Entomology Lab, Tissue Culture Unit, Biotech Lab, Library, Animal Husbandry Unit and Nagarjun Medicinal Garden at PDKV campus. Whole day students were observed new horizons, enthusiastic, busy and happy.

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



**Department of Zoology organized a study tour at Ambabarwa Wildlife Sanctuary on 04 Jan 2020**



Range Forest Officer Mr. Suhas Kamble and his staff and three jungle guide accompanied us. He showed us Artificial Water Arrangement in summer for wildlife. Different measures to protect wildlife. New scheme of Government for forest conservation. He explained how to study in forest to students. The aim of the tour was to observe living wild life fauna & their movement at specific habitat. There are 40 students of B. Sc. Part II and three teacher-guide one non teaching staffs.

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



A study tour of BSc-III students was organized at Government Fish Seedling Center, Koradi. Dr. Meena Nikam, Head of Department, Dr. Vijayshree Hemke, Dr. R. B. Gade and V. D. Sawle and BSc-III students were visited to nearest Government Seedling Center Koradi.



Zoology students visited to Sericulture Unit at Vadgaon Tejan. Mr. Davhale developed sericulture unit in his mulberry farm. Students were curious regarding, Government Subsidy Plans to develop Sericulture Unit. Continuous supply of Mulberry leaves, Seed packet, Care of larvae. Cocoon Processing. Mr. Davhale explained all details of Sericulture Units. Visit organized on the occasion of Wildlife Week.

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

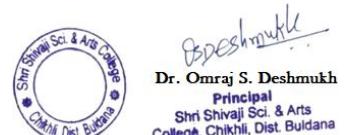


**Department of Botany organized field visit at Mungsari on 06/03/2020**

**Student studied Local Crops and Floral Biodiversity**



**Department of Botany organized visit to Tissue Culture Lab**



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**Department of Botany organized visit to Jain Tissue Culture and irrigation Unit on 05/02/20 & 06/02/20**



**Department of Botany organized visit to Jain Tissue Culture and irrigation Unit on 05/02/20 & 06/02/20**

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

Academic Session  
**2018-19**

## **Activities Conducted for the Address to Gender Sensitization**

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

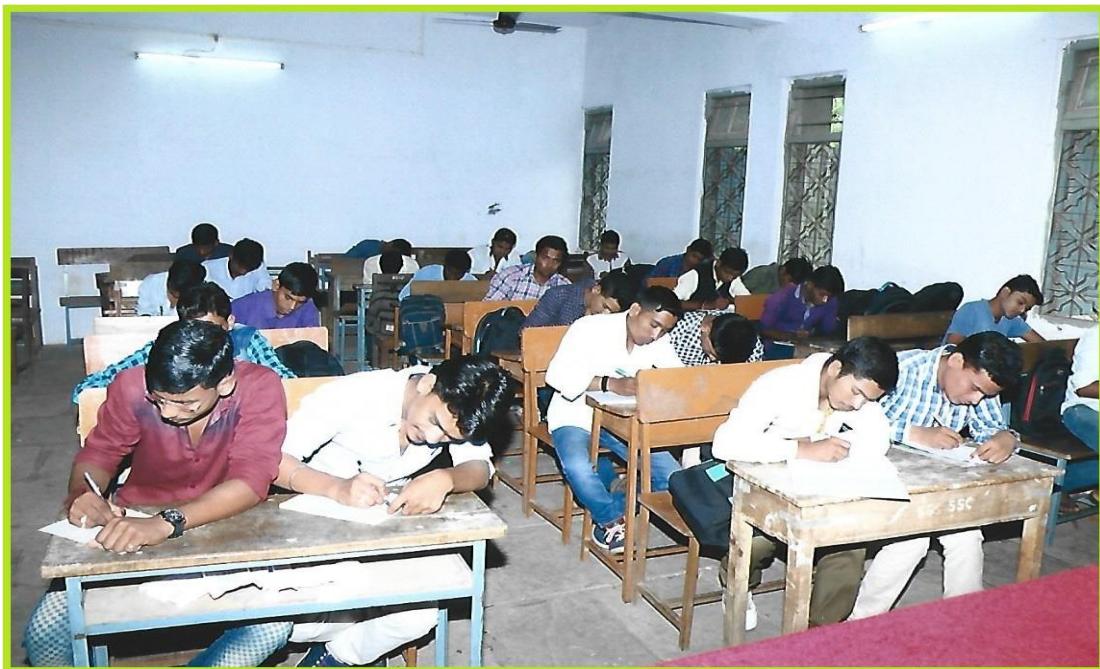


**Women's Grievance Redressal Cell, Shri Shivaji Science & Arts College, Chikhli organized one day national level workshop on 8 March 2019 on "Women Empowerment" total 86 Undergraduate and Postgraduate students from different colleges are registered for this workshop. The teaching staff and students from different colleges like Akola, Lonar, Shegaon, Amravati, Warud, Yeotmal and Aurangabad so on were participate in this workshop.**



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

## Activities Conducted for the Address to Human Values



**Department of Marathi organized Exam on Mahatma Gandhian Thoughts on 02 Oct 2018.  
Exam was conducted in collaboration with Gandhi Research Center, Jalgaon.**



**Department of Marathi organized Exam on Mahatma Gandhian Thoughts on 02 Oct 2018.  
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**1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

## Activities Conducted for the Address to Environment & Sustainability



**Study Tour at Government Seedling Center, Koradi to study artificial fish breeding and distribution of seedling to Farmers on 30 July 2018. Mr. Uday Rathi emphasized on new scheme of Government for Farmers to develop Aquaculture.**

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



**Study tour at Ambabarwa Wildlife Sanctuary organized by Department of Zoology on 30 Aug 2018 to study fauna in their natural habitat. Range Forest Officer Mr. Suhas Kamble, his staff and three jungle guides accompanied with students. He showed, Artificial Water Arrangement in Summer for wildlife. Different measures to protect wildlife. New scheme of Government for forest conservation. He explained how to study in forest to students.**

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

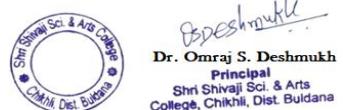


A guest Lecture was organized for students on 07<sup>th</sup> Oct 2018 . Resource Person was Dr. Sanjay Ingale Professor in Microbiology, The Maharaja Sayajirao University of Baroda. Topic was, “Biodiversity and Conservation”. In his talk he emphasized on role of students in restoration of biodiversity in college campus.

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



**Celebration of World Sparrow Day was organized on the behalf of Zoology Department on 20th March 2019 at Shri Shivaji College here. On this occasion a program was organized to sensitize students regarding birds and nature conservation. The theme of the program was to install clay water pots for sparrow and other urban birds**



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

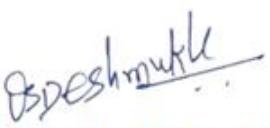


2018-8-28 18:06



To create awareness about water pollution and soil pollution 'Eco-friendly Ganesh Idol Preparation Workshop' was organized on 28th August 2018. About 150 students and some people from society participated and prepare Ganesh Idol from shadu soil.



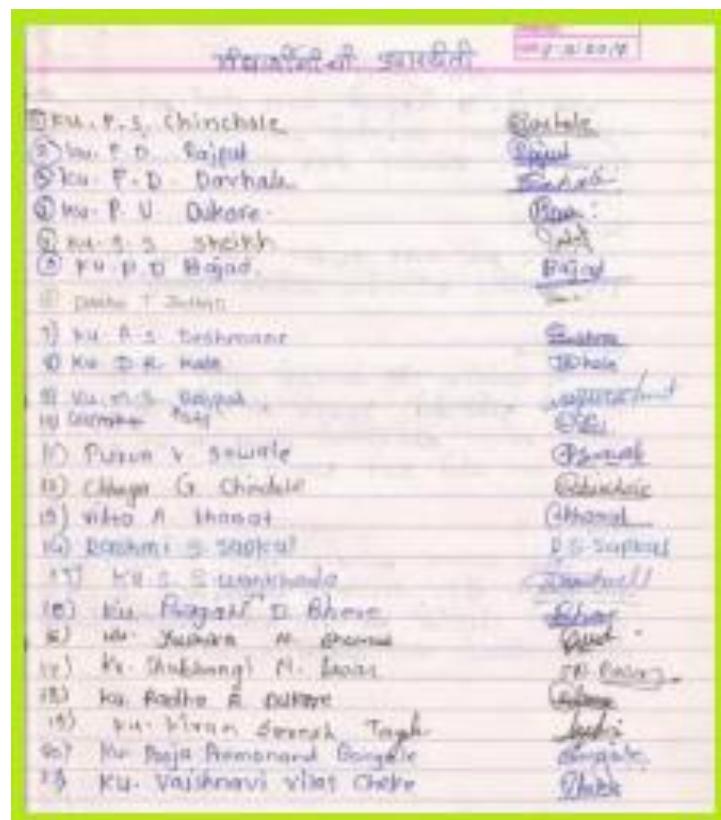
  
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## **Academic Session 2017-18**

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

## Activities Conducted for the Address to Gender Sensitization



**The Women's Grievance Redressal Cell, Shri Shivaji Science & Arts College, Chikhli has organized guest lecture on "Violence Against Women- Prevention of Violence", on 7 th Dec. 2017. Total 21 Undergraduate and Postgraduate students have attended this program.**

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

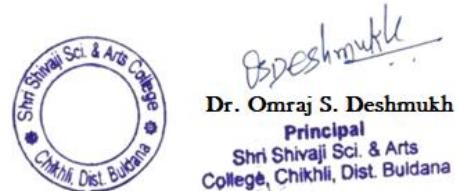
## Activities Conducted for the Address to Human Values



**Department of Political Science organized Voters Awareness Rally**



**Department of Marathi organized Exam on Mahatma Gandhian Thoughts in association with Gandhi Research Foundation, Jalgaon**



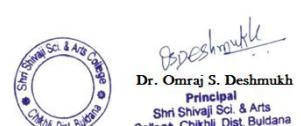
**1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**



**Department of Marathi organized a exhibition on Literature of Saints those who were social reformer**



**Bhajan Competition organized and got a huge response. Above photograph of prize distribution ceremony**



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



National Cadet Corps Unit Shri Shivaji Science & Arts college Chikhli conducted Kargil Vijay Diwas in collaboration with 13 Mah BN NCC Khamgaon. NCC Cadets watched video clips of Kargil War. Then Sub Bhupendra Singh took interactive session among the cadets. He told about Kargil warriors, rules and regulation of Army.

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



**NCC cadets of Shri Shivaji Sci & Arts College chikhli participated in Pulse Polio Campaign of Govt.Rural Hospital Chikhli.Cadets gathered at Rural Hospital.Doctors gave instructions to cadets. Then they were sent to different areas/wards of Chikhli townwhere cadets approached door to doorand inform the people about the vaccination the children of 0 to 5 years successfully**



**National Cadet Corps Unit of Shri Shivaji Science and Arts College, Chikhli and Police Station Chikhli organised Road safety week from 1<sup>st</sup>Jan, 2018 To 8th Jan,2018. Constable (LPC) Jyoti Mule delivered welcome address of the programme. PI Mahendrakumar Deshmukh addressed NCC cadets and emphasized on the traffic rules.**

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

## Activities Conducted for the Address to Environment and Sustainability



**Rain Water Harvesting project successfully run by the institute**



**Tree plantation program conducted every year by NCC, NSS, Botany Department, Zoology Department and Alumni Association**

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



## News Paper Cutings



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

**To save and spread the traditional knowledge of wild vegetable, State level wild Vegetable Competition was organized on 22 Aug 2017. This Competition was free to all age groups. About 200 participants from all regions took part in this competition, Cash prizes also distributed to the women and students for their efforts. Padmshri Rahibai Popere was the chief guest for program**



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