

Shri Shivaji Education Society Amravati's

Dr. Gopalrao Khedkar Mahavidyalaya, Gadegaon Telhara

Dist. Akola (M.S.) 444108



3rd Cycle for

Assessment & Accreditation by NAAC

Criterion 1: Curricular Aspects

1.3.1: *Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum*



Shri Shivaji Education Society, Amarvati'
Dr.Gopalrao Khedkar Mahavidyala,

Gadegaon (Telhara) Dist.Akola444108 (M.S.)

Mobile (Principal) 9561485814

E mail : clg_tel_dgk@ssesa.org Web : www.drjktelh.org

Udise Code Number: 27050705003 Uni.College Code Number: 209
Jr.Coll.Index Number: 01.03.003 HSVC Index Number: 01.03.901
Pay Unit Number: 262

FounderPresident
Dr.Panjabrao Deshmukh,
M.A.,D.Phil., Bar-at-Law
President
Hon'ble Shri Harshavardhan
Deshmukh
Principal
Dr.G.J.Dhole



Outward No : GKMT/23-24/
Dated:

Ref.No. 237/A

Dated : 27/05/2023

Self Declaration

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

Hence this certificate is issued.

Dr.G.O.Jondhalekar

Co-Ordinator



Dr.G.J.Dhole
Dr.Gopalrao Khedkar Mahavidyalaya
Principal
Gadegaon (Telhara), Dist.Akola

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1	Syllabus on Professional Ethics,	04-10
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English
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

UNIT I : PROSE		
SR. NO.	PROSE	AUTHOR
1	Ratan Tata	
2	Steve Jobs	
3	Vijay Bhatkar	
4	Black Money and the Black Economy	C. Rammanohar Reddy
UNIT II : POETRY		
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
UNIT III : BUSINESS COMMUNICATION		
Computer Technology & Recent Concepts in Business		
✓ Paperless office		
✓ Video Conferencing		
✓ E-Banking		
Communication Skills		
✓ Public Speaking (Strategies for Effective Speaking, Types of Speeches)		

MARKING SCHEME

UNIT I: Prose : Any THREE out of FOUR Questions (3 x 4 = 12 Marks)

UNIT II : Poetry : Any THREE out of FOUR Questions (3 x 4 = 12 Marks)

UNIT III : Business Communication :

Any TWO out of THREE Questions (2 x 4 = 8 Marks)

8 Multiple Choice Questions on Unit I & II (8 x 1 = 8 Marks)

INTERNAL ASSESSMENT :

Seminar Skill : 5 Marks

Home Assignment : 5 Marks

B.Com.Part-II
Examination 2014

Prospectus No.2014152

संत गाडगे बाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

वाणिज्य विद्याशाखा
(FACULTY OF COMMERCE)

अभ्यासक्रमिका
वाणिज्य स्नातक भाग-२, परीक्षा २०१४
(त्रिवर्षीय अभ्यासक्रम)

PROSPECTUS
of
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(Three Year Degree Course)



Continued for Summer-2015 Exam
(Along with Notification No.36/2014)

2013
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Commerce
Professional Ethics
ACCOUNTS

35

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 Salnath Prakashan, Nagpur.

हिन्दी :

- गुप्ता : एडवान्स एकाउन्ट्स.
- जे.के. अग्रवाल : बृहत् लेखाकर्म.

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, दोन्धरे : 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 & it's importance.
- 1.4 Development of Management Science- F. W. Taylor, Feyol'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

37

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, Pimpalpure & 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.

Unit-I	Fundamentals of Computer : Introduction: Definition of Computer, Evolution of Computer, Characteristics of Computer, Generations of Computer, Types of Computer (By Logic and By size). Basic Computer Organization : Computer Block Diagram, Input Unit, Output Unit and CPU: Memory Unit, Arithmetic Unit, Control Unit.
Unit-II	Storage : Primary Storage : Concept of memory, RAM. Read-Write: SRAM, DRAM; Read-Only: ROM, PROM and EPROM. Secondary Storage : 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. Software : Concept of Software, Types of Software : Application Software & System Software. Languages : Concept of Computer Languages, Machine Language, Assembly Language, High Level Language, 4 th Generational Languages.

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-Pimpalpure & Co. Pub., Nagpur.
10. संगणक मूलतत्वे आणि चलन प्रणाली- Prof. S.M. Kolte, Pimpalpure & Co. Publishers, Nagpur.

English
B. COM. II SEM IV
GENDER EQUITY
PROSE 2 : FLORENCE NIGHTINGALE : LYTTON STRACHEY

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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 | - F.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

B.A.-I SEM-I

Gender Sensitization

UNIT 5 : I) WOMEN PARTICIPATION IN PANCHYATRAJ OF MAHARASHTRA

- 79 -

19. महाराष्ट्रातील पंचायत राजाची वाटचाल : ले. डॉ. सुभाष गवई, प्रज्ञांत विघे व प्रा. सुनिल चकवे, वेदमुद्रा प्रकाशन, अमरावती.
20. भारतीय संविधानाचा त्रस्तुती आणि स्थानिक स्वशासन : डॉ. शांताशम चव्हाण, वेदमुद्रा प्रकाशन, अमरावती.

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 Sanyukta Gramsabha.
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. म. शृंगारपुरे : भारतीय संविधान
8. प्रा. म. म. घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
9. डॉ. भा. ल. मोळे : भारतीय राज्यव्यवस्था.
10. प्रा. राम मुठाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
11. प्रा. रा. ज. लोटे : भारतीय शासन आणि राजकारण, विपळापूर अँड कं. पब्लिशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
13. भारताचे शासन आणि राजकारण : प्रा. शे. हाशम, डॉ. जोगेंद्र गवई.

POLITICAL SCIENCE

M.A.-I SEM-I

Gender Sensitization

UNIT 1: RAJA RAM MOHAN ROY

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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.
97th 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.गव्हाळे 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 कार्य

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
B.A.-II SEM-IV
Gender Sensitization
STRI PURUSH TULANA

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विभाग ब) ललित

१)	आज्ञापत्र	रामचंद्रपंत अमात्य
२)	माझे दलक यजील	चि. वि. जोशी
३)	दिवस असे होते	दया पवार

विभाग क) कविता

१)	संतवाणी	अ) चोखामेळा ब) सोयराबाई
२)	अखेर कमाई	कुरुभायल
३)	पाखरे	केशव भैराम
४)	जात	श्रीकांत देशमुख
५)	सात बाराची नोंद	लक्ष्मण महाडिक
६)	शांतता	शिवाथ भगत

विभाग ड) व्यावहारिक मराठी

१)	वक्तृत्व कला	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. कैतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	शुद्धसाधलन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २३ वे	

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

विभाग अ) वैचारिक

१)	स्त्री-पुरुष तुलना	तात्परबाई शिंदे
२)	आरंभ	जयंत नारळीकर
३)	विज्ञानयुगात भारत	जयंत नारळीकर

विभाग ब) ललित

१)	गाडगेबाबांच्या कीर्तनातले तत्त्वज्ञान	प्रबोधनकार के.सी. ठाकरे
२)	स्मशानातील सोन	अण्णा भाऊ साठे
३)	स्त्रीवादी चळवळीने आम्हाला आमच्या अस्तित्वाची जाणीव दिली	विद्युत भागवत

विभाग क) कविता

१)	संतवाणी	अ) एकनाथ ब) कान्होपात्रा
२)	सारेच दीप कसे मंदावले आता	अनिल
३)	जिवलग	शांता शेळके
४)	जागजागी	म.मा. परसावळे
५)	पेटू नका देश	मिर्झा रफी अहमद बेग
६)	माती	राजेश महल्ले

विभाग ड) व्यावहारिक मराठी

१)	माहितीपत्रक	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ६ वे	संपा. कैतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	निमंत्रणपत्रिका व कार्यक्रमापत्रिका	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १० वे	

ENGLISH
HUMAN VALUES
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 15th 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 authority 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

Sl.No.	Course / Subjects	Appendices of the New Syllabi
1	2	3
B.A.Part-I Semester – I & II		
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, & Prayojanmukh 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 & Pskrit	The Syllabi prescribed for the subject Compulsory Pali & Pskrit & 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

-7-
**SYLLABUS
PRESCRIBED FOR
H. A. - Part I EXAMINATION
Semester I
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. Education Provides a Solid Foundation - A.P.J Abdul Kalam

2. Love Creates Magic - R.K. Narayan

3. Speech on Indian Independence - Jawaharlal Nehru

4. My Childhood - 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

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

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 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

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

English

Human Values

B.A.-I SEM-II

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. ~~3. The Little Prince - Antoine de Saint-Exupéry~~
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

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

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 139

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 ASSESSTMENT : 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)

B. A.-III SEM-VI
PROFESSIONAL ETHICS
PROSE 1. QUALITY

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 183

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 = 10 Marks

b) Seminar - Presentation = 10 Marks

**SYLLABUS
PRESCRIBED FOR
BA - PART III EXAMINATION
SEMESTER VI
COMPULSORY ENGLISH**

TIME : 3 HOURS

**MAXIMUM MARKS THEORY : 80 MARKS
MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS**

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

UNIT I

UNITS OF STUDY:

1. Quality – John Galsworthy

2. Miss Brim – Catherine Marshfield

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)

POLITICAL SCIENCE

M.A.-I SEM-II

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

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -389

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. डॉ. शैलेन्द्र देवराजकार - समकालीन आधुनिक राजकारण, विद्या भूषण प्रकाशन, औरंगाबाद.
10. डॉ. आ.भा.पाटील - आंतरराष्ट्रीय संबंध, प्रशान्ति प्रकाशक, जळगाव
11. प्रा. वराडकर - आंतरराष्ट्रीय राजकारण.
12. C. Eleman land M.P. 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.

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 Distribution 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, Nature, Advantages and Disadvantages, West or North Dominance in the Globalization 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. Coulombis & 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.

POLITICAL SCIENCE
HUMAN RIGHTS
B.A.-I SEM-I
UNIT 1 ii) PREAMBLE – NATURE AND IMPORTANCE

-78-

(11)

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.बी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.म.भुंगारपुरे : भारतीय संविधान
8. प्रा.म.ग.घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
9. डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
10. प्रा.राम मुदाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
11. प्रा.श.ज. लोटे : भारतीय शासन आणि राजकारण, पिंपळापुरे अँड कं. पब्लीशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
13. भारतीय शासन आणि राजकारण : प्रा.शे.हाशम, डॉ. जोगेद्र गवई.
14. भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
15. भारतीय राजकारणाची संवैधानिक निर्माणा : ले. डॉ. यामन गवई.
16. भारतीय संविधान व शासन व्यवस्था : लेखक - डॉ. शांताराम घव्हाण
17. भारतीय संविधानात्मक तरतुदी आणि वास्तव : लेखक - डॉ. सुभाष गवई
18. भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम घव्हाण व डॉ. सुभाष गवई, वेदभूद्रा प्रकाशन, अमरावती

PHYSICS

Environment and Sustainability

B. SC. S. Y. SEM (III)

UNIT VI: ATMOSPHERE & GEOPHYSICS

B.Sc. Part-II (2014-15)
(Semester-III & IV)

Prospectus No. 2015122

संत गाडगेबाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

अभ्यासक्रमिका
विज्ञान स्नातक भाग-२
सत्र-३ व ४, परीक्षा

PROSPECTUS
OF
B.Sc. Part-II
Semester-III Examination Winter-2014, and
Semester-IV Examination Summer-2015
Continued for Semester-III Winter-2018
Semester-IV Summer-2019
(As it is)

Continued for Semester-III Winter-2017
Semester-IV Summer-2018
(along with notification Nos. 38/2017
63/2017)


Continued for Semester-III Winter-2018
Semester-IV Summer-2019
(Along with Notification Nos. 38/2017
64/2018)

Continued for Semester-III Winter-2015
Semester-IV Summer-2016
(Along with Dir. No.5 of 2015 & Notf.
No.52 of 2015)

Continued for Semester-III Winter-2016
Semester-IV Summer-2017
(Along with Notf. No.37 of 2016)
Notf. No.56 of 2016

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(Price-Rs. 34/-)



Reference Books :

1. T. M. Karade, M. S. Bendre : Lectures on Mechanics, Sonu-Nilu Publication, Nagpur.
2. H. Goldstein : Classical Mechanics (2nd 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 Electrostatics (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 α and β , 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 Geophysics (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
Total	50 marks

PHYSICS

Environment and Sustainability

B. SC. S. Y. SEM (IV)

UNIT VI: RENEAWABLE ENERGY SOURCES

9

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,

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
Total	50 marks

- A student will have to perform at least ten experiments per semester.
- The semester examination will be of Four Hour duration and student will have to perform one experiment in the semester examination.
- 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

B. SC. F. Y. SEM (I) UNIT I

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

B.Sc. Part-I (Sem-I & II) Prospectus No. 2017121
Exam. 2016-17

संत गाडगे बाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

अभ्यासक्रमिका
विज्ञान स्नातक भाग-१
सत्र-१, परीक्षा हिवाळी-२०१६
सत्र-२, परीक्षा सन्हाळी-२०१७

PROSPECTUS
OF
B.Sc. Part-I
SEMESTER-I EXAMINATION W-2016
SEMESTER-II EXAMINATION S-2017

Continued for Semester-I
Winter-2019
Semester-II Summer 2020
(As it is)

Continued for Semester-I Winter-2018,
Semester-II - Summer-2019
(As it is)

Continued for Semester-I
Winter-2017
Semester-II - Summer-2018
along with notification Nos.
49/2017, 50/2017 & 52/2017
& Direction No.7/2017

2016

Continued for
Semester I Winter 2020,
Semester II Summer 2021
(As it is)

Price Rs. 30/-

visit us at www.sgbau.ac.in

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.

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

1S – BOTANY

Diversity & Applications of Microbes and Cryptogams

UNIT-I : Plant Diversity

- 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

- 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

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

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 Bennittitalean 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

BOTANY
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 - Chakraborty, Kulkarni, Pub. Scientific Publication, Pune.
27. Dynamic Earth - Wiley, 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 lectures 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 - Carrier Concept, Passive uptake - Ion Exchange.

Unit - II: Metabolism-

- 2.1 Photosynthesis - Introduction, Role of Light, Photosynthetic Apparatus and Pigments, Two Pigment Systems, Photophosphorylation, C3 and C4 cycle, CAM Pathway.
- 2.2 Respiration - Introduction, Mitochondria as a Respiratory centre, Types of Respiration - Aerobic and Anaerobic, Mechanism of aerobic respiration- Glycolysis, Krebs 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, Abscissic 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,

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 CO₂ 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 CO₂ 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)

MICROBIOLOGY

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 AMRAWATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

अभ्यासक्रमिका

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
& Onwards

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)



2015

(See) at: www.sgbau.ac.in

Contd. for Semester-V
Winter-2016

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

Continued for Semester-V
Winter-2017
Semester-VI- Summer-2018
(along with notification Nos.
28/2017, 54/2017 &
Direction No.15/2017

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

MISCELLANEOUS:-

1.	Propipettes	Any make	Able to hold any pipettes from 0.1 ml to 10 ml capacity Rubber or Plastic.	5 Nos.
2.	Test tube Stands	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.	Porcelain Glazed tiles		6x6"	20 Nos.
6.	Mortar and Pestal	---	6" diameter	1 Nos.

**B.SC. 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 divided 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).

5S 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 : CO₂ 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 (sieving 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

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

Total	- 50 marks
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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 : Stainner & 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 divided 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

B. SC. S. Y. SEM (IV)

UNIT 05: ECOLOGY

UNIT 06: ECOSYSTEM

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, Pancreas, Ovary, Testes, 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.

Semester IV

Paper-I:		Marks Allotted
Advanced Genetics and Animal Ecology.		
Written examination.....		80
Internal assessment		20
2) Practical:		50
Total:		150 Marks

ZOOLOGY Paper 4S
ADVANCED GENETICS AND ANIMAL ECOLOGY

UNIT I : Concept of genes.

Mendel's laws of hereditary – 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. Edward's

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 & diapause. **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, (Gauze'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 CO₂, 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. (2 Spot 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

CLASS/SEM B. A. I SEM I

PROSE : SPEECH ON INDIAN INDEPENDENCE : JAWAHARLAL NEHRU

PROSE 4: VALUES IN LIFE

ENVIRONMENT

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -77

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

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 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

English
B.Sc.-I Sem. - 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 | - Seethal |
| 3. The Child | - Premchand |
| 4. Water- The Elixir of Life | - C.V.Raman |

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 Grammar - 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 | - |

Marathi
B.A.-II SEM-III
Environment and Sustainability
ADNYAPATRA

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विभाग ब) ललित

१)	आज्ञापत्र	रामचंद्रपंत अमात्य
२)	दिवस असो होते	दया पवार

विभाग क) कविता

१)	संतवाणी	अ) घोखामेळा ब) सोयराबाई
२)	अखेर कमाई	सुसुमाग्रज
३)	पाखरे	केशव मेश्राम
४)	जात	श्रीकांत देशमुख
५)	सात बाराची नोंद	लक्ष्मण महाडिक
६)	शांतता	शिवाय्य भगत

विभाग ड) व्यावहारिक मराठी

१)	वक्तृत्व कला	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. कैतकी मोडक व इतर, पद्मगंगा प्रकाशन, पुणे
२)	सूत्रसंचालन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २३ वे	

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

विभाग अ) वैद्यक

१)	स्त्री-पुरुष तुलना	ताराबाई शिंदे
२)	आरसा	डॉ. बाबासाहेब आंबेडकर
३)	विज्ञानयुगात भारत	जयंत नारळीकर

विभाग ब) ललित

१)	गाडगेबाबांच्या कीर्तनातले तत्त्वज्ञान	प्रबोधनकार कै.सी. ठाकरे
२)	रमशानातील सोन	अण्णा भाऊ साठे
३)	स्त्रीवादी चळवळीने आम्हाला आमच्या अस्तित्वाची जाणीव दिली	विद्युत भागवत

विभाग क) कविता

१)	संतवाणी	अ) एकनाथ ब) कान्होपात्रा
२)	सारंग दीप कसे मंदावले आता	अनिल
३)	जियलगा	शांता शेळके
४)	जागजागी	भ.मा. परसावळे
५)	पेटवू नका देश	मिर्झा रफी अहमद बेग
६)	माती	राजेश महल्ले

विभाग ड) व्यावहारिक मराठी

१)	माहितीपत्रक	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ९ वे	संपा. कैतकी मोडक व इतर, पद्मगंगा प्रकाशन, पुणे
२)	निमंत्रणपत्रिका व कार्यक्रमापत्रिका	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १० वे	



(Signature)

Dr.G.J.Dhole

Principal

PRINCIPAL,

Dr. Gopalrao Khedkar Mahavidyalaya
Gadegaon (Telhara) Dist. Akola

GENDER SENSITIZATION

आरडीजी महिला महाविद्यालयात राज्यस्तरीय वेबिनार

देशोन्नती वृत्तसंकलन...

अकोला ■ स्थानिक आरडीजी महिला महाविद्यालयात आंतरराष्ट्रीय मानवाधिकार दिनानिमित्त राज्यस्तरीय वेबिनारचे आयोजन करण्यात आले होते. आरडीजी महिला महाविद्यालय आणि डॉ. गोपाळराव खेडकर महाविद्यालय, तेल्हारा यांच्या संयुक्त विद्यमाने राज्यशास्त्र विभाग आणि 'आयक्युएसी' विभागाद्वारे हा राज्यस्तरीय वेबिनार आयोजित करण्यात आला होता.

या राज्यस्तरीय वेबिनारच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ. देवेंद्र व्यास तर प्रमुख अतिथी म्हणून प्राचार्य डॉ. गोपाळ डोले, प्रमुख वक्ता म्हणून डॉ. कृष्ण माहोरे, डॉ. विनोद खेरे, डॉ. संजय विटे यांची प्रमुख उपस्थिती होती. राज्यस्तरीय वेबिनारचा उद्देश महाविद्यालयीन विद्यार्थिनींना 'त्यांचे हक्क आणि कर्तव्य' त्याचबरोबर आंतरराष्ट्रीय पातळीवर आणि राष्ट्रीय पातळीवर मानवी हक्काची परिस्थिती अवगत करून देणे हा आहे असे प्रतिपादन डॉ. विनोद खेरे यांनी केले.

डॉ. देवेंद्र व्यास यांनी आयोजकांचे स्वागत करीत आजच्या काळामध्ये महिलांचे हक्क आणि महिला सक्षमीकरण आवश्यक आहे असे स्पष्ट



आंतरराष्ट्रीय मानवी अधिकार दिनानिमित्त आयोजन

महिला सक्षमीकरणासाठी समाजाने जागृती आणि प्रबोधन करणे गरजेचे आहे असे स्पष्ट केले. राज्यशास्त्र विभाग प्रमुख डॉ. कृष्ण माहोरे यांनी आंतरराष्ट्रीय मानवाधिकार दिनाच्या इतिहास स्पष्ट केला. भारताच्या संदर्भात समाज सुधारकांचे योगदान त्याचबरोबर विविध कायद्यांचा त्यांनी आढावा घेतला. भारतीय संविधानामध्ये असणाऱ्या महिला हक्क विषयक तरतुदी त्यांनी स्पष्ट केले आणि संपूर्ण महिलांसाठी हा वेबिनार आवश्यक असल्याचे डॉ. माहोरे यांनी सांगितले. डॉ. संजय विटे यांनी

सक्षमीकरण आहे आणि वेबिनार त्यासाठी अत्यंत सक्षमपणे कार्यक्रम करत आहे असे सांगितले. कार्यक्रमाचे संचालन प्रा. स्वप्नील इंगोले यांनी तर आभार प्रदर्शन प्रा. डॉ. संजय विटे यांनी केले. कार्यक्रमाच्या यशस्वितेसाठी डॉ. आशिष मुठे, अमर अग्रवाल प्रा. स्वप्नील जैन, ज्ञानेश्वर आवारे, योगेश सुर्वे यांनी परिश्रम घेतले. राज्यस्तरीय वेबिनारला डॉ. रजनी डोले, डॉ. रवींद्र मुठे, प्रा. सोनल कामे, प्रा. इंगळे, प्रा. जयश्री बंड, डॉ. विजय आळशी, डॉ. नितीन चौधरी, प्रा. ललित भट्टी, डॉ. राजेश नितनवरे, प्रा. स्मिता देवर आणि महाविद्यालयीन विद्यार्थिनी मोठ्या संख्येने उपस्थित होत्या.

आह्वार सुचना
वेबिनार कोणता कुठला कालावधी घेई की प्रत्येकी
आभार घ्यानी 1.बी.प्रदीप कविता इंगोली 2.बी.
सवित्री प्रदीप इंगोली 3.बी.प्रदीप कविता इंगोली 4.

Sat, 11 December 2021
<https://deshonnati.digitaledition.in/c/64884187>



आंतरराष्ट्रीय मानवी अधिकार दिन : मान्यवरांनी केले मार्गदर्शन

आरडीजी महिला महाविद्यालयात राज्यस्तरीय वेबिनार

मातृभूमि वृत्तसेवा

। अकोला, दि. १० ।

भारतीय सेवासदनचे अध्यक्ष दिलीपराज गोयनका उपाध्यक्ष आमदार गोपीकिशन बाजोरीया, उपाध्यक्ष रवि गोयनका, सचिव आलोक गोयनका आणि प्राचार्य डॉ. देवेंद्र व्यास यांच्या मार्गदर्शनाखाली आंतरराष्ट्रीय मानवाधिकार दिनानिमित्त राज्यस्तरीय वेबिनारचे आयोजन करण्यात आले होते.

श्रीमती राधादेवी गोयनका महिला महाविद्यालय आणि डॉ. गोपाळराव खेडकर महाविद्यालय, तेल्हारा यांच्या संयुक्त विद्यमाने राज्यशास्त्र विभाग आणि आई क्यू ए सी विभागाद्वारे हा राज्यस्तरीय वेबिनार आयोजित करण्यात आला होता.

या राज्यस्तरीय वेबिनारच्या



अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ. देवेंद्र व्यास, प्रमुख अतिथी म्हणून प्राचार्य डॉ. गोपाळ डोले, प्रमुख वक्ता म्हणून डॉ. कृष्ण माहोरे आणि डॉ. विनोद खेरे, डॉ. संजय विटे यांची प्रमुख उपस्थिती होती.

राज्यस्तरीय वेबिनारचा उद्देश महाविद्यालयीन विद्यार्थिनींना त्यांचे हक्क आणि असणारे कर्तव्य त्याचबरोबर आंतरराष्ट्रीय पातळीवर आणि राष्ट्रीय पातळीवर मानवी हक्काची परिस्थिती अवगत करून देणे हा आहे, असे प्रतिपादन डॉ. विनोद खेरे यांनी केले. डॉ. देवेंद्र व्यास यांनी आयोजकांचे अभिनंदन केले आणि आजच्या काळामध्ये महिलांचे हक्क

आणि महिला सक्षमीकरण आवश्यक आहे असे स्पष्ट केले.

प्राचार्य डॉ. गोपाळ डोले यांनी महिला सक्षमीकरण यासाठी समाजाने जागृती आणि प्रबोधन करणे गरजेचे आहे असे स्पष्ट केले. राज्यशास्त्र विभाग प्रमुख डॉ. कृष्ण माहोरे यांनी आंतरराष्ट्रीय मानवाधिकार दिनाच्या इतिहास स्पष्ट केला.

भारताच्या संदर्भात समाज सुधारकांचे योगदान त्याचबरोबर विविध कायद्यांचा त्यांनी आढावा घेतला. भारतीय संविधानामध्ये असणाऱ्या महिला हक्क विषयक तरतुदी त्यांनी स्पष्ट केले आणि संपूर्ण महिलांसाठी हा वेबिनार आवश्यक

आहे असे सांगितले.

डॉ. संजय विटे यांनी महिला महाविद्यालयाचा उद्देश महिला सक्षमीकरण आहे आणि वेबिनार त्यासाठी अत्यंत सक्षमपणे कार्यक्रम करत आहे असे सांगितले.

कार्यक्रमाचे संचालन प्रा. स्वप्नील इंगोले यांनी केले आणि आभार प्रा. डॉ. संजय विटे यांनी केले. कार्यक्रमाच्या यशस्वितेसाठी डॉ. आशिष मुठे, अमर अग्रवाल प्रा. स्वप्नील जैन, ज्ञानेश्वर आवारे, योगेश सुर्वे यांनी परिश्रम घेतले.

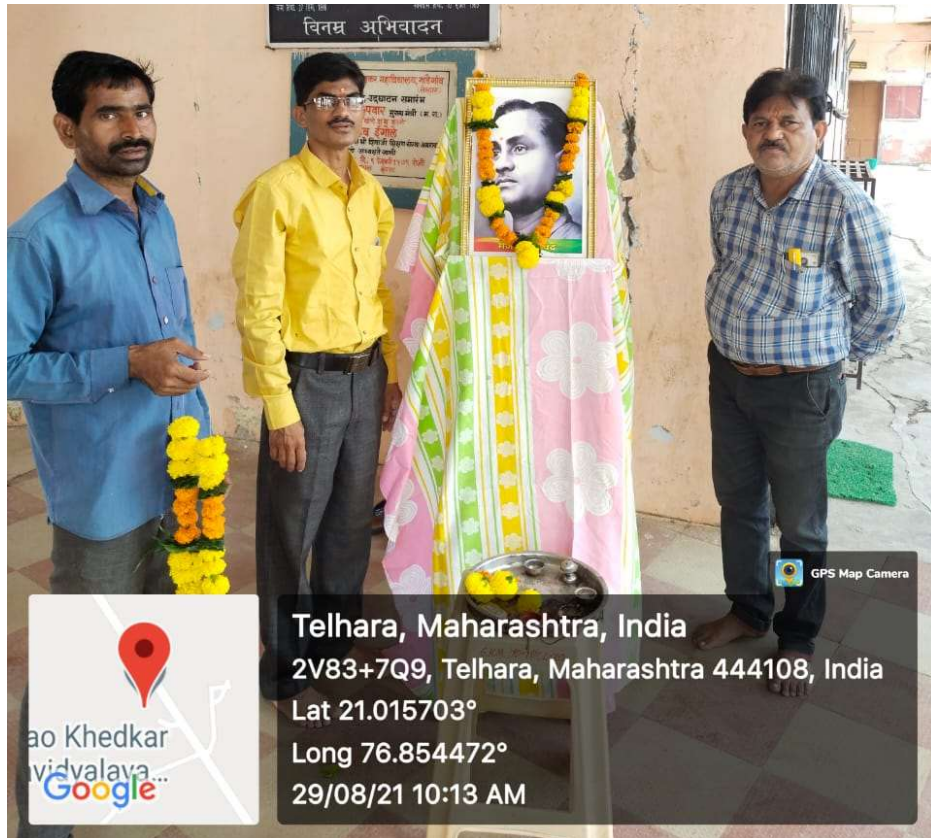
राज्यस्तरीय वेबिनारला डॉ. रजनी डोले, डॉ. रवींद्र मुठे, प्रा. सोनल कामे, प्रा. इंगळे, प्रा. जयश्री बंड, डॉ. विजय आळशी, डॉ. नितीन चौधरी, प्रा. ललित भट्टी, डॉ. राजेश नितनवरे, प्रा. स्मिता देवर आणि महाविद्यालयीन विद्यार्थिनींची मोठ्या संख्येने उपस्थिती होती.

Professional Ethics



Human Values

Birth Anniversary of Major Dhyan Chand



Sports Achievement of Girls Students at Taluka Level



Alumni Association of Dr. Gopalrao Khedkar Mahavidyalaya, Telhara and Suryodya
Women's Organisation jointly organised Exhibition of Home-made products and Guidance
Programme for Women Self Help Groups and Women at College campus



श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित
डॉ.गोपाळराव खेडकर महाविद्यालय गाडेगाव (तेल्हारा) जि.अकोला
माजी विद्यार्थी संघ व
सुर्योदय महिला उद्योग,तेल्हारा
यांच्या संयुक्त विद्यमाने
महिला बचत गट मार्गदर्शन मेळावा
रविवार दिनांक : १८ डिसेंबर २०२२ वेळ : दुपारी १२.०० वा.



Professional Ethics / Women Empowerment

Alumni Association of Dr. Gopalrao Khedkar Mahavidyalaya, Telhara and Suryodya Women's Organisation jointly organised Exhibition of Home-made products and Guidance Programme for Women Self Help Groups and Women at College campus



Skill Development Programme

Professional Ethics





देशोन्नती

डॉ. गोपाळराव खेडकर महाविद्यालयात समान संधी केंद्राची स्थापना

देशोन्नती वृत्तसंकलन...

तेल्हारा ■ स्थानिक महाविद्यालयातील मागासवर्गीय मुला-मुलींना शिष्यवृत्ती, फ्रीशिप व इतर शासनाच्या योजना व स्पर्धा परीक्षा मार्गदर्शन सोबतच उद्योजकता व्यवसाय व रोजगार निर्मितीसाठी, आर्थिक न्यायासाठी मार्गदर्शन करणे तसेच संवाद अभियान, युवा-संवाद यासारखे कार्यक्रम सुरू करण्याकरता आता महाविद्यालयांमध्येच विद्यार्थ्यांसाठी 'समान संधी केंद्र' स्थापन करण्याचे सामाजिक न्याय व विशेष सहाय्य विभागाने निर्देशित केले आहे. त्यानुसार प्रत्येक महाविद्यालयात त्याच महाविद्यालयातील किमान एक

प्राध्यापक व एक सहाय्यक व काही विद्यार्थी यांची मदत घेऊन महाविद्यालयातच समान संधी केंद्र स्थापन करावे, तसेच केंद्र शासन पुरस्कृत भारत सरकार मंडिकोत्तर शिष्यवृत्ती योजनेच्या सुधारित विकाससह त्यांचे सर्व मार्गदर्शक सूचना, शैक्षणिक विकास व व्यवसाय रोजगार निर्मितीच्या दृष्टीने केंद्र व राज्य सरकारच्या उपाय योजना विद्यार्थ्यांपर्यंत पोहोचाव्यात, यासाठी हे 'समान संधी केंद्र' स्थापन केले आहे.

या कार्यक्रमासाठी प्रमुख पाहुणे म्हणून श्री शिवाजी शिक्षण संस्थेचे आजीवन समासद दादा पाटील पाथरीकर हे होते. तर अध्यक्ष म्हणून महाविद्यालयाचे प्राचार्य डॉ. गोपाल डोले व प्रमुख उपस्थिती म्हणून प्राध्यापक

एम. पी. चोपडे उपस्थित होते. या समान संधी केंद्राचे समन्वयक म्हणून प्राध्यापक डॉ. धीरजकुमार नजान हे उपस्थित होते. कार्यक्रमाचे सुरुसंचालन प्रा. संघपाल खंडेराव यांनी केले. तर प्रास्ताविक व केंद्राचे महत्त्व डॉ. धीरज नजान यांनी विद्यार्थ्यांना सांगितले. कार्यक्रमाचे अध्यक्ष डॉ. गोपाल डोले यांनी विद्यार्थ्यांना मार्गदर्शन केले. तर प्रा. एम. पी. चोपडे यांनी कार्यक्रमाचे आभार प्रदर्शन केले. या कार्यक्रमासाठी महाविद्यालयातील विद्यार्थी- विद्यार्थिनी मोठ्या संख्येने उपस्थित होते. या कार्यक्रमाच्या यशस्वीतेसाठी अमोल गेबड, हिंमत फोकमारे व अभिजित लोखंडे यांनी परिश्रम घेतले. (ता.प्र.)

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नवराष्ट्र

नवभारत पत्रसमूहाचे भारतीय वृत्तपत्र

मानवाधिकार कायदा समजून घ्या : प्राचार्य ढोले



तेलहारा, (वा.). मानवाधिकार कायदा समजून घेऊन त्यानुसार वर्तन करा, असे आवाहन प्राचार्य गोपाल ढोले यांनी केले. जागतिक मानवाधिकार दिनानिमित्त एक्शन फोरमने डॉ. गोपाळराव खेडकर महाविद्यालयात आयोजित कार्यक्रमात ते बोलत होते. विद्यार्थ्यांना मानवाधिकार व हक्क याविषयी माहिती दिली. दादा पाश्रीकर, प्रा. गेवड, प्रा. झामरे, प्रा. वर्घट, फोरमचे तालुकाध्यक्ष प्रा. योगेश कोरपे, पंकज भारसाकळे, सदस्य सचिन थाटे उपस्थित होते. प्रास्ताविक योगेश कोरपे यांनी केले. संचालन सचिन थाटे यांनी केले. प्रा. बोकारे, प्रा. मिसाळ, प्रा. मेटांगे, प्रा. वानखडे व सचिन ढोले यांच्यासह विद्यार्थी उपस्थित होते

Celebration of Birth Anniversary of Rajmata Jijau and Swami Vivekanand



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नवराष्ट्र

नवराष्ट्र पत्रकारिताचे भारतीय पत्रकार

अभिलेखन • गिह्यात ठिकठिकाणी कार्यक्रम; नांदवरांचे विद्यार्थ्यांना मार्गदर्शन

माँ जिजाऊ, स्वामी विवेकानंद जयंती साजरी
डॉ. गोपाळराव खेडकर महाविद्यालय



तेल्हारा. स्थानिक डॉ. गोपाळराव खेडकर महाविद्यालयाच्या राष्ट्रीय सेवा योजना विभागाद्वारे राजमाता जिजाऊ व स्वामी विवेकानंद यांची जयंती साजरी करण्यात आली. प्राचार्य डॉ. गोपाल ढोले यांच्या हस्ते राजमाता जिजाऊ व स्वामी विवेकानंद यांच्या प्रतिमांचे पूजन करण्यात आले.

कार्यक्रमाला प्रा. एम. पी. चोपडे, प्रा. एम. एम. कवरके, रासेयो कार्यक्रम अधिकारी डॉ. जी. ओ. जोंधळेकर, महिला कार्यक्रम अधिकारी प्रा. सुषमा फरसोले, प्रा. डॉ. डी. एल. नजान, प्रा. डॉ. रजनी बोवडे, प्रा. एस. एम. झामरे, प्रा. अनुप खिरोडकार, प्रा. अभिनव पुंडकर, प्रा. स्वप्नील फोकमारे, प्रा. गजानन इंगळे तसेच स्वयंसेवक उपस्थित होते. कार्यक्रमाच्या आयोजनात हिंमत फोकमारे, ओम कुलट, दीपक वानखडे, गौरव भटकर, नागेश सोळंके, स्मिता भटकर, स्नेहल सोनटक्के, अजय वाघ, अमोल जाधव यांचा सहभाग होता.

पंकज भारसाकळे नवराष्ट्र रिपोर्टर

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epaper.navarashtra.com

Eco system / Environment Conservation

Tree Plantation at College Campus

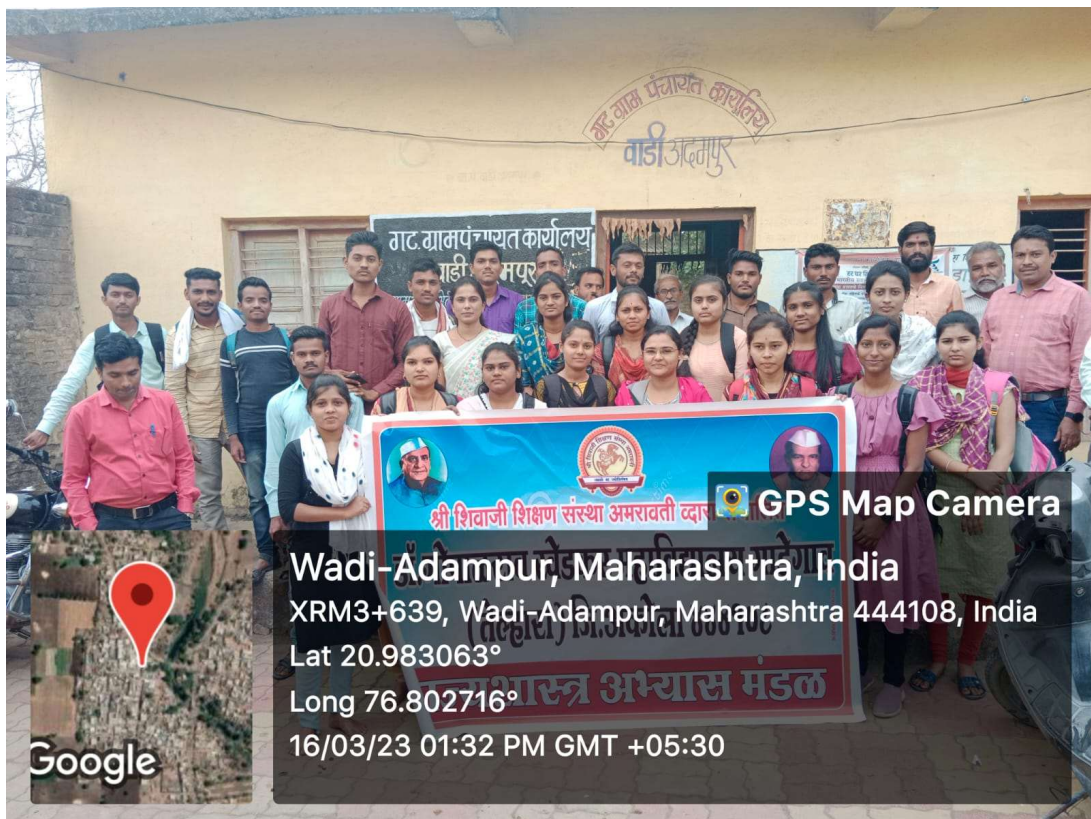


Visit to Block Development Office

Study Tour “Panchayat Samiti” office Telhara, organised by Dept. of Political Science



Study Tour “Gram Panchayat” office Wadi-Adampur, Tq.Telhara, organised by Dept. of Political Science





देशोन्नती

रिद्धपूर येथे खेडकर महाविद्यालयाचा अभ्यास दौरा

देशोन्नती वृत्तसंकलन...

तेलहारा ■ येथील डॉ. गोपाळराव खेडकर महाविद्यालय गाडेगाव तेलहाराच्या मराठी विभागाद्वारे मराठी वाङ्मय मंडळाच्या वतीने रिद्धपूर येथे अभ्यास दौऱ्याचे आयोजन करण्यात आले होते. मराठी विभागातील प्राध्यापक डॉ. रजनी बोबडे यांच्या नेतृत्वात हा अभ्यास दौरा करण्यात आला. या अभ्यास दौऱ्यात प्रा. विजय खुमकर, प्रा. संगपाल खंडेराव व मराठी विभागातील बी.ए. भाग २ चे विद्यार्थी सहभागी झाले होते. रिद्धपूर हे महानुभाव पंथाचे संस्थापक श्री चक्रधर स्वामी, गोविंद प्रभू यांची कर्मभूमी आहे. त्यामुळे महानुभाव पंथीयांची काशी म्हणून ओळखले जाते. रिद्धपूर येथे मराठी वाङ्मयाची सुरुवात झाली. याच ठिकाणी लिळाचरित्र नावाचा ग्रंथ लिहिला गेला इ.स.च्या बाराव्या शतकात येथे प्रचंड साहित्य निर्मिती झाली. प्राचीन मराठी साहित्याचे मांडार रिद्धपूर येथे



आहे. रिद्धपूर येथे प्राचीन मराठीतील व महानुभाव पंथातील विविध लिपीचा अभ्यास या ठिकाणी विद्यार्थ्यांनी केला. प्राचीन मराठी वाङ्मय व प्राचीन मठ मंदिरे यांचा अभ्यास या ठिकाणी विद्यार्थ्यांनी केला. या अभ्यास दौऱ्यात रिद्धपूर येथील प्रकाश बिडकर यांनी व तेथील महंतानी विद्यार्थ्यांना मार्गदर्शन व सहकार्य केले. या अभ्यास दौऱ्यामुळे विद्यार्थ्यांच्या

ज्ञानात भर पडली. हा अभ्यास दौरा प्राचार्य गोपाल डोले यांच्या मार्गदर्शनात पार पडला. या अभ्यास दौऱ्यावर विद्यार्थ्यांनी शोधपत्रांची लेखन करून त्याचे प्रकाशन करण्यात येईल, जेणेकरून त्याचा लाभ इतर विद्यार्थ्यांना होईल व इतर विद्यार्थ्यांना यातून प्रेरणा मिळेल, अशी आशा व्यक्त करण्यात येत आहे. (ता.प्र.)



लोकमत समाचार

एक नजर

तेल्हारा में विश्व पुस्तक दिवस मनाया



तेल्हारा : स्थानीय डॉ. गोपालराव खेडकर कॉलेज, गाडेगांव, तेल्हारा में विश्व पुस्तक दिवस के अवसर पर कार्यक्रम का आयोजन किया गया. मानव जीवन में पुस्तक का महत्व बहुत अधिक है. शास्त्र मनुष्य के गुरु हैं. पढ़ी हुई किताबें ही इंसान को बुद्धिमान बनाती हैं. डॉ. बाबासाहेब आम्बेडकर ने अपने जीवन में पुस्तकों को बहुत महत्वपूर्ण स्थान दिया था. वह कहते हैं, 'अगर आपके पास दो रुपये हैं तो एक रुपये की रोटी और एक रुपये की किताब खरीद लीजिए. रोटी आपको जीने में मदद करेगी, लेकिन किताब आपको जीना सिखाएगी'. इसलिए विश्व पुस्तक दिवस के अवसर पर डॉ. गोपालराव खेडकर कॉलेज में ग्रंथों-किताबों की पूजा-पाठ कर इस दिन को मनाया गया. इस समय कॉलेज के प्राचार्य डॉ. गोपाल डोले, प्रा. एम. पी. चोपड़े, प्रा. डॉ. धीरज नजान, अमोल गेबड, शैलेश फोकमारे और छात्र बड़ी संख्या में मौजूद थे.

Constitution Day Celebration: reading of PREAMBLE of Indian Constitution








संत गाडगे बाबा अमरावती विद्यापीठ
 डॉ. आंबेडकर अभ्यास केंद्र व
 श्री. शिवाजी शिक्षण संस्था, अमरावती संचालित
 डॉ. गोपाळराव खेडकर महाविद्यालय, गाडेगाव (तेल्हारा) जि. अकोला

संविधान जनजागृती कार्यशाळा

कार्यक्रमाध्यक्ष - प्राचार्य डॉ. गोपाल ढोले

<p>- कार्यक्रमाचे उद्घाटक -</p> <p>मा. श्री. दादासाहेब खोटे कार्यकारीणी सदस्य, श्री शिवाजी शिक्षण संस्था, अमरावती</p> <p>प्रमुख वक्ते / मार्गदर्शक -</p> <p>प्रा. डॉ. प्रसेनजित गवई सीताबाई कला, वाणिज्य व विज्ञान महाविद्यालय, अकोला</p>	<p>प्रमुख अतिथी -</p> <p>मा. अॅड. विश्वासराव नेरकर आजीवन सभासद, श्री शिवाजी शिक्षण संस्था, अमरावती</p> <p>सत्र दुसरे - प्रमुख वक्ते</p> <p>मा. श्री. भिमराव परधरमोल व्याख्याता, फुले, शाहु, आंबेडकरी विचारधारा</p>
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■ **स्थळ** - सभागृह, डॉ. गोपाळराव खेडकर महाविद्यालय, गाडेगाव (तेल्हारा)

■ **दिनांक** - २६ नोव्हेंबर २०२२, **वेळ** - सकाळी ११ वाजता

- **विनित** -

कुलसचिव,

संत गाडगेबाबा अमरावती विद्यापीठ, अमरावती

<p>डॉ. संतोष बनसोड समन्वयक, डॉ. आंबेडकर अभ्यास केंद्र, संत गाडगेबाबा विद्यापीठ, अमरावती</p>	<p>डॉ. गोपाल ढोले प्राचार्य, डॉ. गोपाळराव खेडकर महाविद्यालय, गाडेगाव (तेल्हारा)</p>
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- **आयोजक** -

डॉ. धिरजकुमार नजान
इतिहास विभाग प्रमुख, डॉ. गो. खे. महाविद्यालय, गाडेगाव (तेल्हारा)

Health Check-up Camp organised for Girls Students





देशोन्नती

डॉ. गोपाळराव खेडकर महाविद्यालयात एलआयसीतर्फे रोजगार मार्गदर्शन मेळावा

देशोन्नती वृत्तसंकलन...

तेल्हारा ■ येथील डॉ. गोपाळराव खेडकर महाविद्यालय गाडेगाव तेल्हारा येथे वाणिज्य विभाग व इतिहास विभाग यांच्या संयुक्त विद्यमाने भारतीय जीवन विमा निगम शाखा अकोटतर्फे रोजगार मार्गदर्शन मेळावा संपन्न झाला. या कार्यक्रमासाठी अध्यक्ष म्हणून महाविद्यालयाचे प्राचार्य डॉ. गोपाल ढोले उपस्थित होते. तर प्रमुख मार्गदर्शक म्हणून शाखा अधिकारी नरेंद्र लबडे आणि विकास अधिकारी प्रवीण काळे, सुमीत भगत व प्रवीण राऊत आदी उपस्थित होते.

सदर कार्यक्रमाचे सूत्रसंचालन इतिहास

विभागप्रमुख डॉ. धीरज नजान यांनी केले. तर प्रमुख वक्ता म्हणून नरेंद्र लबडे, प्रवीण राऊत आणि प्रवीण काळे यांनी आपल्या भाषणातून विम्याचे महत्त्व व रोजगाराच्या संधीविषयक विस्तृत मार्गदर्शन केले. डॉ. गोपाल ढोले यांनी आपल्या अध्यक्षीय भाषणातून विद्यार्थ्यांना वेगवेगळ्या योजनांची माहिती देऊन कमवा आणि शिका असा संदेश दिला. त्यानंतर शाखाधिकारी यांनी विद्यार्थ्यांसोबत प्रश्नोत्तराचा तास घेतला. त्यातून विद्यार्थ्यांच्या सर्व प्रश्नांचे निरासन केले. या कार्यक्रमाचे आभार प्रदर्शन प्रा. एम.पी. चोपडे यांनी केले. कार्यक्रमाच्या यशस्वीतेसाठी सचिन ढोले, हिम्मत फोकमारे यांनी परिश्रम घेतले.

(ता.प्र.)

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नवराष्ट्र

पंकज भारसाकळे नवराष्ट्र रिपोर्टर

नवभारत पत्रसमूहाचे मराठी वृत्तपत्र

डॉ. गोपाळराव खेडकर महाविद्यालयात एलआयसीचा रोजगार मार्गदर्शन मेळावा

तेल्हारा, (वा.). डॉ. गोपाळराव खेडकर महाविद्यालय गाडेगाव येथे वाणिज्य व इतिहास विभागाच्या वतीने एलआयसी अकोट शाखेकडून रोजगार मार्गदर्शन मेळावा घेण्यात आला. कार्यक्रमाच्या अध्यक्षस्थानी प्राचार्य डॉ. गोपाल ढोले होते. शाखा अधिकारी नरेंद्र लबडे, विकास अधिकारी प्रवीण काळे, सुमीत भगत व प्रवीण राऊत उपस्थित होते. कार्यक्रमाचे संचालन डॉ. धीरज नजान यांनी केले. नरेंद्र लबडे,



प्रवीण राऊत आणि प्रवीण काळे यांनी विम्याचे महत्त्व व रोजगाराच्या संधी विषयी मार्गदर्शन केले. डॉ. गोपाल ढोले यांनी विद्यार्थ्यांना वेगवेगळ्या योजनांची माहिती देऊन कमवा आणि शिका

असा संदेश दिला. शाखाधिकारी यांनी विद्यार्थ्यांसोबत प्रश्नोत्तराचा तास घेतला. आभार प्रदर्शन प्रा. एम. पी. चोपडे यांनी केले. सचिन ढोले, हिंमत फोकमारे यांनी आयोजनाची बाजू पाहिली.

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Professional Ethics/Environment Awareness

Participation of Students and Staff in Mushroom Cultivation Workshop at Shahpur, Chikhaldara



Health and Hygiene
COVID Vaccination Camp

