

Assessment & Accreditation by NAAC

CRITERION-I Curricular Aspects



Self Declaration

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

Hence this certificate is issued.

Dr. S. L. Khandel
IQAC Co-Ordinator
Dr. H. N. Sinha Arts &
Commerce College, Patur

PATUR Dist. Akola

Primoipali Dr. K. S. Khandare Dr. H. N. Sinha Arts & Commerce College, Patur

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4	Environment and Sustainability,	22-50		
Activitie	es Conducted for the address			
1	Year 2021-22 to 2017-18			
	Professional Ethics			
	Gender Sensitization	51-75		
	Human Values			
	Environment and Sustainability			



English

CLASS/SEM B.COM.-III SEM-V

PROFESSIONAL ETHICS

PROSE:1 RATAN TATA 2 STEVE JOBS

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 135 Appendix - A B.Com. III Semester- V Compulsory English Marks: 40 Time: 2 Hours Prescribed Textbook: Horizons by Board of Editors Published by Orient Blackswan. CONTENTS UNIT I: PROSE AUTHOR Ratan Tata Steve Jobs Vijay Bhatkar 3 Black Money and the Black Economy C. Rammanohar Reddy 4 UNIT II : POETRY A Red, Red Rose Robert Burns 1 2 It is needless to ask the saint the caste to Kabir which he belongs P.B. Shelly Love's Philosophy 3 Andrew Marvell The Garden 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 <u>UNIT 1: Prose</u>: Any THREE out of FOUR Questions (3 \times 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 \times 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 BABAAMRAVATI UNIVERSITY

वाणिज्य विद्याशाखा (FACULTY OF COMMERCE)

अभ्यासक्रमिका

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

PROSPECTUS

of
The B.Com. Part-II Examination 2014
(Three Year Degree Course)



Continued for Summer-2015 Exam (Along with Notification No.3 2014)

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Price Rs. 18/-

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 provi-

sions 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 Sainath Prakashan, Nagpur.

हिन्ही :

- गप्ता : एडवान्स एकाउन्टस.
- जे.के. अप्रवाल : बृहत लेखाकर्म.

PRINCIPALS OF ORGANISATION

Professional Ethics

36

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

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

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

रोडे, स्मार्थ, ढोन्बरे : 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 challanges.

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, Maslaw 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

Reference books:

- Management Concept and Practices, by Manmohan Prasad, Himalaya Publishing House
- Essentials of Management by Weihrich and Koonts. Tata McGraw Hill.
- Management Concept & Principles, by Manmohan Prasad, Himalaya Publication.
- Management by Stonel & Foceman. Prentice Hall of India.
- Fundamentals of Management by Robbins.Pearson Education.
- Management Principles and Practices, by Prasad, Lallan & Gulshan.S.Chand.
- व्यवसाय व्यवस्थापनाचे सिध्दांत Prof. S.M.Kolte, Pimpalapure & Co. Publishers, Nagpur.
- व्यवसाय प्रबंधनाची मुलतत्वे : डॉ. आनंद दत्तात्रय भोसले नभ 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

Marks:100 Time:3 Hours

(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.

Storage Primary Storage Conceptor vicinopy, Calvin Cau-Unit-II 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, 4th Generational Languages.

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Unit-III	Operating System: Concept of Operating System.
	MS-DOS: Introduction to MS-DOS, MS-DOS Commands: Internal Commands: DIR, COPY, DEL, TYPE, REN, CD, MD, RD, PROMPT, COPY CON; External Commands: FORMAT, DISKCOPY, X-COPY, BACK UP, RESTORE, CHKDSK, PATH, ATTRIB, EDIT.
	Window: Window XP/Vista: Introduction to Windows, Features of Windows, Types of Windows: Application Window, Document Window & Dialog box, Desktop, Icons: My Computer, My Documents, Recycle Bin, Internet Explorer, Task Bar, Properties, Management of the Files & Folders.
Unit-IV	MS Word 2003/2007/Higher: Concept of Word processing, Working With MS-WORD: MS-Word Screen, Working with Menus, Creating and Saving Document, Formatting Text and Document Setup, Header & Footer, Creating tables and chart, Inserting Clip Arts, Links, Text Box, Word Arts, Drop Cap, Mail Merge, Printing a Document.
Unit-V	Ms PowerPoint 2003/2007/Higher: Concept of Presentation, MS-PowerPoint Screen, Creating, Saving and Opening presentations, Adding text, Clips & Word Art to Slides, Working with different Slide Views, Background features, Gallery, Color Layout, Slide Effects & Slide Show, Saving

BOOKSRECOMMENDED:

- 1. Fundamentals of Computers-V Rajarman (PHI)
- Computer Fundamentals-B.Ram (WE)

and Printing.

- Introduction to IBMPC & Applications-Taxali.
- MS-OFFICE (PHI)
- MS-OFFICE (BPB)
- MS-OFFICE (TMH)
- Yeats: Systems Analysis & Design; Macmillan India, New Delhi.
- Basics of Computer and Business Mathematics, By Dr. Rajiv Ashtikar, Dr.Santosh Sadar and Prof. Vilas Chopade: Payal Prakashan, Nagpur.
- Computer Fundamentals & Operating System : Supriya Bhagade-Pimpalapure & Co. Pub., Nagpur.
- संगणक मूलतत्वे आणि चलन प्रणाली- Prof. S.M. Kolte, Pimpalapure & Co. Publishers, Nagpur.

English

CLASS/SEM B. COM. II SEM IV

GENDER

PROSE 2: FLORENCE NIGHTINGALE: LYTTON STRACHEY

	NT GADGE BABA AMRAVA	TI UNIVERSIT	Y GAZETTE - 2018 - PART TWO - 97
Unit V	Introduction to Formulas, Working with Common LOWER, PROOPER, COUNTBLANK, COUNTS	Functions and Excel Function CONCATENATION F. SUM. SUMIF	Categories of Functions. Institute of Categories of Functions. Institute of Categories of Categori
Books	Recommendation: * Microsoft Ofice Excel 2007 * Curtis D. Fry "Microsoft Ex * MS OFFICE (BPB)		ok at BOOKBOON.COM by Step" Published by Microsoft Press
9	 Pradeep K. Sinha and Publication. Alexis Leon and Mathew 	s Leon's Fund	"Fundamentals of Computing" BPB damentals of Information Technology
· P	"Published by Leon Vikas. Practical Based on Microsoft		

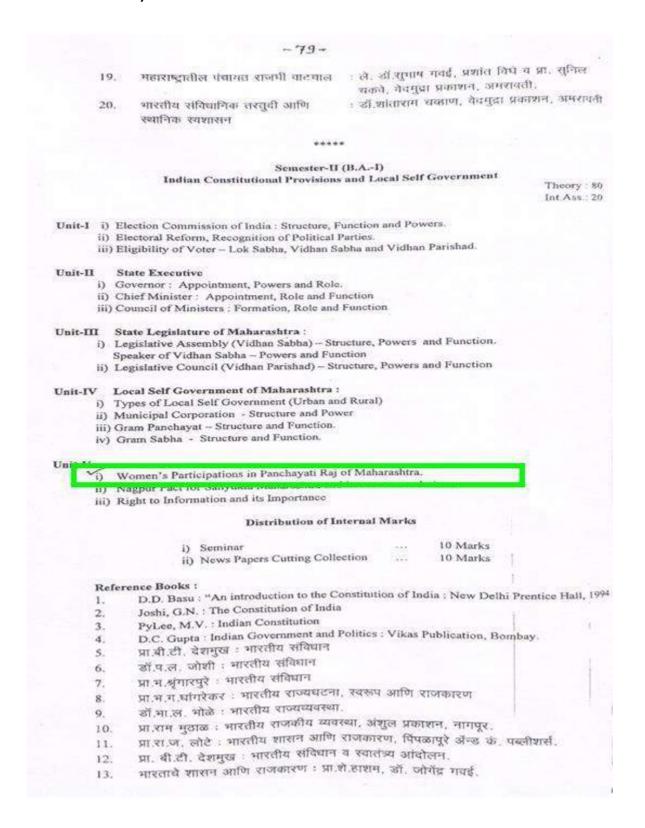
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		SEMESTER-	
	ENG	LISH (COMPL	JLSORY)
Time :-	- 2 Hours		Marks :- 40

1)	Text Prescribed -		***************************************
85	Text Prescribed - Impressions		***************************************
1	Impressions	try) Published by	Raghav Publishers & Distributors, Nagpur.
1	Impressions	try) Published by	Raghav Publishers & Distributors, Nagpur.
Unit- I	Impressions (An Anthology of Prose and Poel	•	Raghav Publishers & Distributors, Nagpur.
Unit- I	Impressions (An Anthology of Prose and Poel	•	
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CLASS/SEM B.A.-I SEM-I

Gender Sensitaization

UNIT 5: I) WOMEN PARTICIPATION IN PANCHYATRAJ OF MAHARASHTRA



Marathi

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

Gender Sensitization

STRI PURUSH TULANA

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दिवस असे होते दिवस को किता रांतवाणी अधिकामैका अर्थंत कमाई कुसुमाइज अर्थंत में अर्थंत स्थानंत अर्थंत वाराची नोंद त्यांचार्यंत अर्थंत वाराची नेंद त्यांचारंत अर्थंत वाराची नेंद त्यांचारंत अर्थंत वाराचार्यंत त्यांचारंत अर्थंत वाराचार्यंत अर्थंत वाराचारंत अर्थंत वाराचरंत अर्थंत वाराचरंत अर्थंत वाराचरंत अर्थंत वाराचरंत अर्थंत वाराचरंत अर्थंत वाराचारंत अर्थंत वाराचारंत अर्थंत वाराचारंत अर्थंत वाराचारंत अर्थंत वाराचारंत अर्थंत वाराचारंत	}	माडो दलक वडील चि.					
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पाखरे अंतर भेजान वेशपुष्ड अति वाष्ट्र विभाग को आवहारिक मराठी विभाग को आवहारिक मराठी विभाग को वेशपुष्ट वेशपुष्ट अति वाष्ट्र वेशपुष्ट वेशपुष्ट वेशपुष्ट अति वाष्ट्र वेशपुष्ट	N.	अखेर कमाई कुर					
जातं श्रीकांत देशपुढ त्वस्थण महाजिक विभाग क) व्यावहारिक मराठी विभाग क) व्यावहारिक मराठी विभाग क) व्यावहारिक मराठी विभाग क) विभाग क) विभाग को किया माजत विभाग को किया विभाग को अहमद बेग विभाग को व्यावहारिक मराठी विभाग का विभाग				शव मेश्राम			
सात बाराची नींद लक्ष्मण महाडिक सिख्यार्थ मगत सिक्षमा क) व्यावहारिक मराठी यक्कृत्व कला संदर्भ ग्रंथ : 'उपयोजित मराठी संपा, केतकी मोडक व इतर, पर्वमणे स्त्राणे स्तराणे स्त्राणे		Direction of					
विभाग के व्यावहारिक मराठी विभाग के व्यावहारिक मराठी विभाग के व्यावहारिक मराठी विभाग के व्यावहारिक मराठी विभाग के विभाग के विभाग के कि विभाग के विभाग के कि विभाग के विभाग के कि विभाग के कि विभाग के कि विभाग के कि विभाग के विभाग के कि विभाग के विभाग							
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विश्वानयुगात भारत अर्थल नारळीकर विश्वानयुगात भारत विश्वाम ब) लिलत विश्वाम ब) लिलत प्रबोधनकार के.सी. ठाकरे विश्वाम के.सी. ठाकरे अण्णा माऊ साठे विश्वाम के.सी. ठाकरे अण्णा माऊ साठे विश्वाम के.सी. ठाकरे अण्णा माऊ साठे विश्वाम के.सी. ठाकरे विश्वाम भागवत विश्वाम भागवत विश्वाम के.सी. ठाकरे विश्वाम भागवत विश्वाम के.सी. ठाकरे विश्वाम भागवत विश्वाम के.सी. ठाकरे विश्वाम विश्वाम के.सी. ठाकरे विश्वम विश्वाम के.सी. ठाकरे विश्वम विश्वाम के.सी. ठाकरे विश्वम विश्वम क			विभाग		6		
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विभाग क) कविता	२) ३)	आरस्त विज्ञानयुगात भारत विज्ञानयुगात भारत भारत भारत भारत भारत भारत भारत भा	विमाग ले सच्चज्ञान	अ) येचारिक रासवाई अ असंस न ब) ललिर प्रबोधनक अक्ला प	शिंदे कार्यकर ग कार के सी, ठाकरें माऊ साठें		
(a) पेटचू नका देश मिझाँ रकी अहमद बेग (b) पेटचू नका देश राजेश महल्ले (c) माती विभाग ड) व्यावहारिक मराठी (d) माहितीपत्रक संदर्भ ग्रंथ : 'उपयोजित मराठी (व) माहितीपत्रक संदर्भ ग्रंथ : 'उपयोजित	२) ३) १) २)	आरसी विज्ञानयुगात भारत गाडगेबाबांच्या कीर्तनात समशानातील सोनं स्त्रीवादी चळवळीने आ	विमाग ले सच्चज्ञान	अ) येचारिक रासवाई अ असंस न ब) ललिर प्रबोधनक अक्ला प	शिंदे कार्यकर ग कार के सी, ठाकरें माऊ साठें		
(4) पेटचू नका देश माडी एको अहमद बंग ह) माडी यावहारिक मराठी यावहारिक मराठी यावहारिक मरा	(a) (a) (b) (a) (a) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	गाडगेबाबांच्या कीर्तनात समझानातील सोनं स्त्रीवादी चळवळीने आ जाणीव दिली संतवाणी सारेच दीप कसे मंदाव जिवलगा	विमाग ले तस्पञ्चान म्हाला आमध्या अस्तित्याची विभाग	अ) वैचारिक जयंत न ब) ललिद प्रबोधन अण्णा प विद्युत क) कवि अ) एव ब) का	शिदे जिल्हे असेन्स्स्य गरळीकर कार के सी, ठाकरे माउँ साठे भागवत ता जनाथ न्होपात्रा		
(देभाग ड) व्यावहारिक मराठी विभाग ड) व्यावहारिक मराठी (वेभाग ड) व्यावहारिक मराठी	9) 2) 3) (9) (9) (9) (9)	आरसी विज्ञानयुगात भारत गाडगेबाबांच्या कीर्तनात स्मशानातील सोनं स्त्रीवादी चळवळीने आ जाणीव दिली संतवाणी सारेच दीप कसे मंदाव जिवलगा	विमाग ले तस्पञ्चान म्हाला आमध्या अस्तित्याची विभाग	आ) वैचारिक ताराबाई अयंत न ब) ललित प्रबोधनव अण्णा व विद्युत : (क) कवि (अ) एव ब) का अनिल श्राता :	शिंदे वारकीकर ग कार के.सी. ठाकरे माऊ साठे भागवत ता कनाथ न्होपात्रा शेळके		
विभाग ङ) व्यावहारिक मराठी (व) माहितीपत्रक संदर्भ ग्रंथ : 'उपयोजित संपा. केतकी मोडक व इतर, पद्	4) 3) 4) 3)	आरसी विज्ञानयुगात भारत गाडगेबाबांच्या कीर्तनात एमशानातील सीन स्त्रीवादी चळवळीने आव जाणीव दिली संतवाणी सारेच दीप कसे मंदाव जिवलगा जागजागी पेटयू नका देश	विमाग ले तस्पञ्चान म्हाला आमध्या अस्तित्याची विभाग	आ वैचारिक जाराबाई अयंत न ब) लिल प्रबोधनक अण्णा विद्युत : क) कवि अ) एव ब) का अनिल शांता : भ,मा,	शिंदे गरकीकर गरसावळे		
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२) निमंत्रणपत्रिका य सिदम प्रथ : उपयोजित कार्यक्रमपत्रिका मराठी: मधील प्रकरण १० वै	4) 3) 3) 3) 3) 3) 4) 3) 3) 4) 5) 5) 6)	आरसी विज्ञानयुगात भारत गाडगेबाबांच्या कीर्तजात समशानातील सोनं स्त्रीवादी चळवळीने आर जाणीव दिली संतवाणी सारेच दीप कसे मंदाव जिवलगा जागजानी पेटचू नका देश माती	विमाग ले तत्त्वज्ञान म्हाला आमध्या अस्तित्वाची विभाग त्वे आता विभाग ड) संदर्भ ग्रंथ : 'उपय मराठी' मधील प्रक	अ) वैचारिक ताराबाई अंध्यान अण्णा विद्युत (क) कवित् (क) कवित (क) कवित् (क) कवित (क) व	शिंदे अपेकेटक्ट गरळीकर ग हार के सी, ठाकरे माऊ साठे मागवत ता हानाथ न्होपात्रा शेळके परसावळे परसावळे परसावळे क मराठी संपा, केतकी मोडक व इतर, पद्गगंध		

ENGLISH

HUMAN VALUES

CLASS/SEM B.A.-I SEM-I

1. PROSE 3 SPEECH ON INDIAN INDEPENDENCE 7. MIDDLE AGE

SANT GADGE BARA AMRAVATI UNIVERSITY GAZETTE Official Publication of Sent Gadge Babs American University PART - TWO

Thursday, the 15th June, 2017 NOTIFICATION

No. 40/2017 Detr: 15 June, 2017

Subject: Implementation of Syllabi of Various Courses / Subjects as per Semester and Credit Crade System in the Faculty of Humanites from the session 2017-2018

It is notified for general information of all concerned that, the authorities of the University has accepted of Sensester & Crecit Crack System syllabs of various Courses' Subjects of B.A. Part-1 Sensester-1 & SensesterII mentioned in column No.2 and which is to be implemented stagewise. from the session 2017-2018 and onwards, with appendices as shown in column No.3 of the following table.

TABLE

Sr.No. Course / Subjects	Appendices of the New Syllabi
1 2	3.
B.A. Part-I Semester - L. English	The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplymentary English which is appended berewith 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 Syllabs prescribed for the subject Compulsory Hindi, Hindi Literature, & Prayojamuulal Hindi which is appended herewith as Appendix-C
4 Sanskrit	The Syllabs 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 Syllabs prescribed for the subject Persian Literature which is appended herewith as Appendix-F
7. Pali & Prakrit	The Syllabi prescribed for the subject Compulsory Pali & Prakrit & Pali Literature which is appended herewith as Appendix-G
R Music	The Syllabs prescribed for the subject Indian Music which is appended berewith as Appendix-H
	Sale- Register: Sant Chalgo Bake Asservati University

CLASS/SEM B.A.-I SEM-I

1. PROSE 3 SPEECH ON INDIAN INDEPENDENCE 7. MIDDLE AGE

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TABLE

B.A.Part-I ! I. English	Semester – 1 & II	
The second secon	Semester - 1 & II	
		The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplymentary English which is appended herewith as Appendix-A
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R. Music		The Syllabs prescribed for the subject ledian Music which is appended berewith as Appendix-H

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

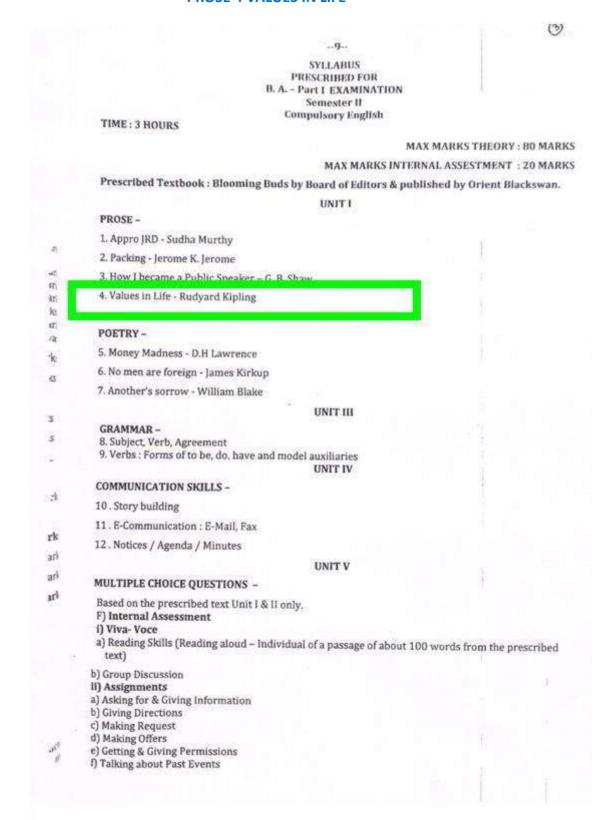
YSLLABUS PRESCRIBED FOR B. A. - Part I EXAMINATION Semester I Compulsory English

TIME: 3 HOURS

		MAX MARKS THEORY	: 80 MARKS
		ERNAL ASSESSTMENT	
Prescribed Textbook: Blooming Buds by Board of	of Editors & published	by Orient Blackswan.	
	UNITI		
PROSE -			
1. Education Provides a Solid Foundation - A.P.J Abd	ul Kalam		
Aldreston de la tratación			
3. Speech on Indian Independence - Jawaharlal Neh	t'u		
	111111111111111111111111111111111111111		
	UNIT II		
POETRY -			
5. In the Bazaar of Hyderabad - Sarojini Naidu			
6. She Walks in Results - Lord Buron			
7. Middle Age - Kamala Das	-2		
AND THE PARTY OF T			
GRAMMAR -		- 1	
8. Parts of Speech			
9. Tenses			
	JNIT IV	- 5	
COMMUNICATION SKILLS -			
10. Unseen Passage		1	
11. Letter Writing (Personal & Business Letters)			
12 . Curriculum Vitae (CV)			
	JNIT V	240	
MULTIPLE CHOICE QUESTIONS -			
Based on the prescribed text Unit 1 & II only.		4:	
INTERNAL ASSESSMENT		3	
i) Viva- Voce	65		
a) Personal Interview			
b) Seminar			
ii) Assignments		4	
a) Making Introduction			
b)Greeting People		8 0	
r)Talking about Family			
d) Describing People, Places & Animals			
e) Expressing Feelings			
f) Inviting, Suggesting, Accepting & Refusing			

CLASS/SEM B. A.-I SEM-II

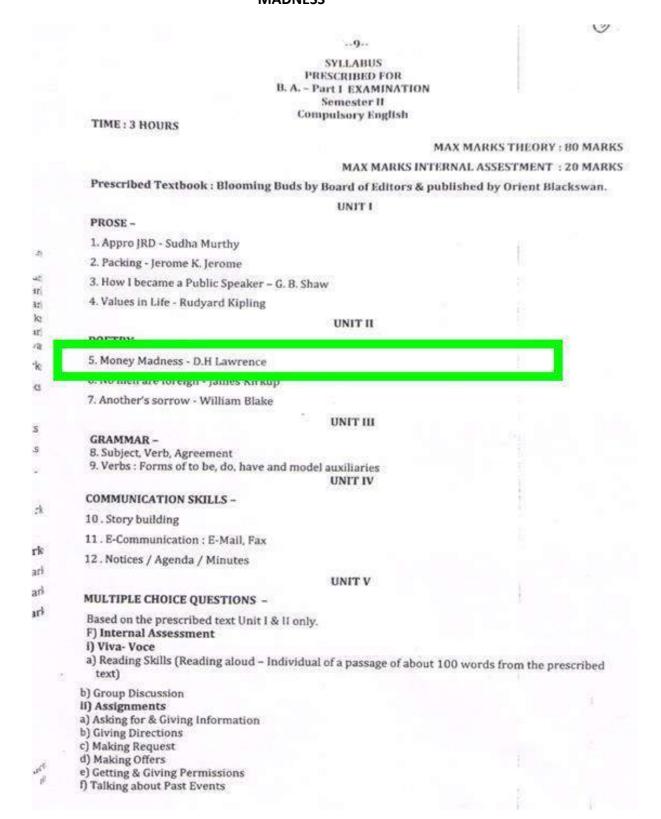
HUMAN VALUES PROSE 4 VALUES IN LIFE



CLASS/SEM B.A.-I SEM-II

HUMAN VALUES

POETRY 5 MONEY MADNESS

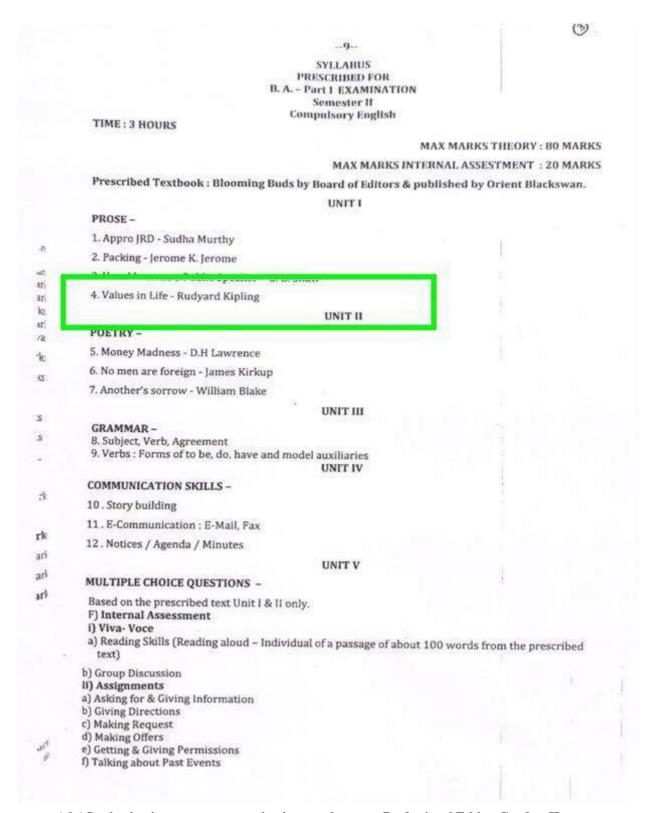


English

Human Values

CLASS/SEM B.A.-I SEM-II

PROSE 4: VALUES IN LIFE



CLASS/SEM 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 MAX MARKS THEORY: 80 MARKS TIME: 3 HOURS MAX MARKS INTERNAL ASSESSTMENT : 20 MARKS Prescribed Textbook: Blossoming Flowers by Board of Editors, Published by Orient Blackswan. UNITI PROSE -1. India's Message to the World - Swami Vivekanand 3. The Happy Prince - Oscar Wilde UNITH POETRY -5. Sonnet 116 - William Shakespeare Dirge – James Shirley
 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)

CLASS/SEM B. A.-III SEM-VI

HUMAN VALUES

PROSE 1. QUALITY

	GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 183
	UNIT III (16 Marks)
) The stude	Prescribed Text Sands of Time by Board of Editors & published by Orient Blackswan nts shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks
each. = 6 Ma i) The stude each = 10 M	ents shall have to answer TWO out of THREE questions in about 100 words of 5 marks
	UNIT IV (16 Marks)
	KILLS cis Writing: 1) The students shall have to write a précis of the given paragraph with suitable title 08 marks
2, De abo	veloping a Thought: i) The students shall have to develop a thought, choosing one of the two in out 250 words for 08 marks
	UNIT V (16 Marks)
E) Multiple	Choice Questions (MCQ) at I, II & III: The students shall have to attempt multiple choice questions= 16 Marks
F) Internal i) Viva- Vo	Assessment ce = 20 Marks
a) Personal	Interview = 10Marks
b) Seminar	- Presentation = 10 Marks
	SYLLABUS
	PRESCRIBED FOR
	BA – PART III EXAMINATION
	SEMESTER VI
	COMPULSORY ENGLISH
TIME: 3	HOURS MAXIMUM MARKS THEORY: 80 MARKS
TIME: 3	HOURS MAXIMUM MARKS THEORY : 80 MARKS MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS
	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS
	HOURS MAXIMUM MARKS THEORY: 80 MARKS MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I
Pr	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I
Pr 1. Qu	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS escribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I uality – John Galsworthy
Pr 1. Qu	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I
1. Qi 2. M	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS escribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I uality – John Galsworthy
I. Qu Z. M	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I uality — John Galsworthy iss Briti — Camerine Manshem UNIT II
Pr 1. Qu 2. M ESSAYS:	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS escribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Briti — Catherine Manshell UNIT II My Financial Career - Stephen Leacock
Pr 1. Qu 2. M ESSAYS:	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I UNIT II My Financial Career -Stephen Leacock Socrates and the Schoolmaster - FL Brayne
1. Qt 2. M ESSAYS: 1. 2.	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS escribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan, UNIT I uality — John Galsworthy ISS Britt — Camerine Manshell UNIT II My Financial CareerStephen Leacock
1. Qi 2. M ESSAYS: 1. 2.	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Britt — Camerine Manshero UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III
1. Qi 2. M ESSAYS: 1. 2. POETRY: 1.	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Britt — Camerine Manshero UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth
1. Qi 2. M ESSAYS: 1. 2. POETRY: 1.	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity – John Galsworthy ISS Briti – Catherine Manshelu UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster – FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser
1. Qr 2. M ESSAYS: 1. 2. POETRY: 1. 2.	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy iss Briti — Camerine inausticiu UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV
1. Qi 2. Mi ESSAYS: 1. 2. POETRY: 1. 2. WRITING 1. R	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy iss Briti — Camerine inausticiu UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV
POETRY: 1. Qu 2. M ESSAYS: 1. 2. POETRY: 1. 2. WRITING 1. R 00 2. E	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Britt — Camerine islansing u UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV SKILLS: eport Writing: 1) The students shall have to write a Report on the given topic in about 250 words for marks ssay: 1) The students shall have to write an essay, choosing from the four given topics in about 250
POETRY: 1. Qu 2. M ESSAYS: 1. 2. POETRY: 1. 2. WRITING 1. R 00 2. E	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster - FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV SKILLS: eport Writing: 1) The students shall have to write a Report on the given topic in about 250 words for marks
POETRY: 1. 2. POETRY: 1. 2. WRITING 1. R 08 2. E W	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Briti — Camerine Manshelo UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV SKILLS: eport Writing: 1) The students shall have to write a Report on the given topic in about 250 words if a marks ssay: i) The students shall have to write an essay, choosing from the four given topics in about 250 ords for 08 marks UNIT V E CHOICE QUESTIONS Prescribed Text: Unit 1, il & III
POETRY: 1. Qu Z. MI ESSAYS: 1. 2. POETRY: 1. 2. WRITING 1. R 08 2. E W MULTIPL Based on I	MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Brill — Camerine Mansanero UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV SKILLS: eport Writing: 1) The students shall have to write a Report on the given topic in about 250 words of a marks ssay: 1) The students shall have to write an essay, choosing from the four given topics in about 250 ords for 08 marks UNIT V E CHOICE QUESTIONS Prescribed Text: Unit I, II & III INSESSESSEMENT.
POETRY: 1. Qu Z. MI ESSAYS: 1. 2. POETRY: 1. 2. WRITING 1. R 08 2. E w MULTIPL Based on l Internal / Viva- Voc	MAXIMU MARKS INTERNAL ASSESSTMENT: 26 MARKS rescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan. UNIT I unlity — John Galsworthy ISS Brill — Camerine Mansareto UNIT II My Financial Career - Stephen Leacock Socrates and the Schoolmaster — FL Brayne UNIT III The Solitary Reaper- William Wordsworth Stay Calm - Grenville Kleiser UNIT IV SKILLS: eport Writing: 1) The students shall have to write a Report on the given topic in about 250 words for marks ssay: 1) The students shall have to write an essay, choosing from the four given topics in about 250 ords for 08 marks UNIT V E CHOICE QUESTIONS Prescribed Text: Unit I, II & III INSESSESSEMENT.

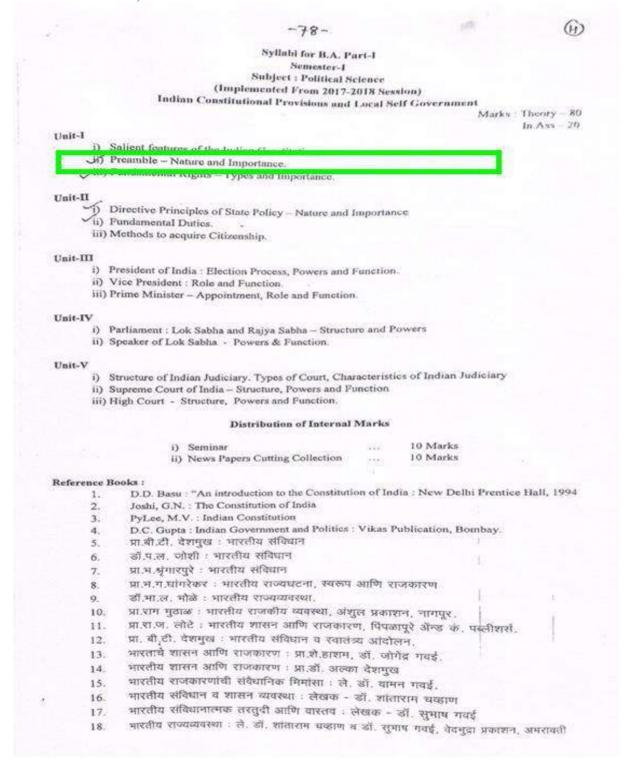
POLITICAL SCIENCE

Human Rights

CLASS/SEM

B.A.-I SEM-I

UNIT 1 ii) PREAMBLE – NATURE AND IMPORTANCE

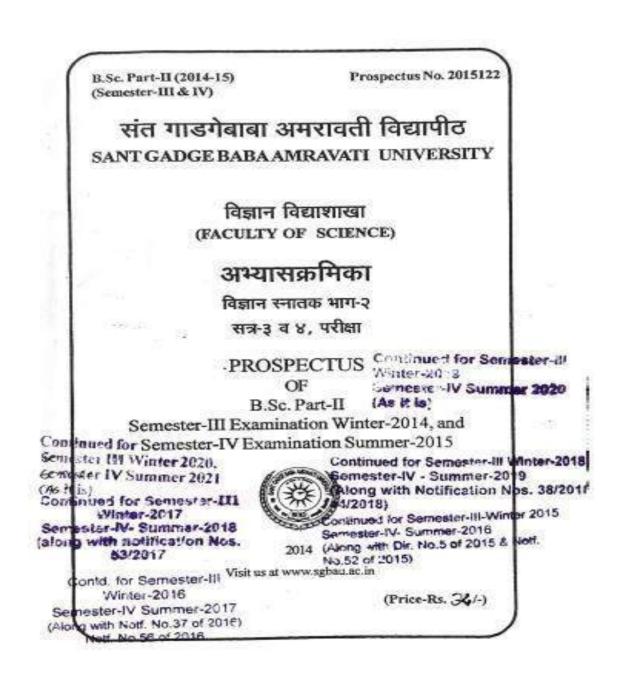


PHYSICS

Environment And Sustainability

CLASS/SEM B. SC. S. Y. SEM (III)
UNIT VI:

ATMOSPHERE & GEOPHYSICS



Beference Books:

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

2. PHYSICS 3S PHY

Unit I: Mathematical background and Elecrostatics (12)

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

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

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

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

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

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

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

Introduction to BJT; working of BJT; modes of operation; Current gains á and â, 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

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

Atmosphere and Geophysicss

(12)

Structure of earth - The crust, mantle, core.

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

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

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

rue distribution of marks for practical examination will be as follows:

Total	97909 9 50 marks
Assignment	20 marks 10 marks
Viva-voce Experiment	10 marks
Record Book	10 marks

PHYSICS

Environment and Sustainability

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

UNIT VI: RENEAWABLE ENERGY SOURSES

9

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

Reference Books:-

- Solid state Electronics Devices- B.G.Streetman (PHI)
- 2. Electronics Devices & Circuits A. Mottershead (PHI)
- Integrated Electronics—J.Millman; C.Halkias (TMH)
- Electronics Devices & circuits Sanjeev Gupta (Dhanpat Rai Pub.)
- Electronics Devices & circuits-I & II Godse & Bakshi (Tech. Pub., Pune) mathermalog vinturnio barrylleoirgile
- Solid State Devices & Electronics—Kamal Singh & S.P.Singh (S. Chand & Co.) The model and to entit as
- 7. Electromagnetic theory and holography satya parakash
- 8. A text book of geology G.B. mahapatra
- 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:

Viva-voce 1 Experiment 2	0 marks
Viva-voce 1	0 marks
	0 marks
	0 marks
Record Book 1	0 marks

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

Evaluation of the student during the semester:

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

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

BOTANY

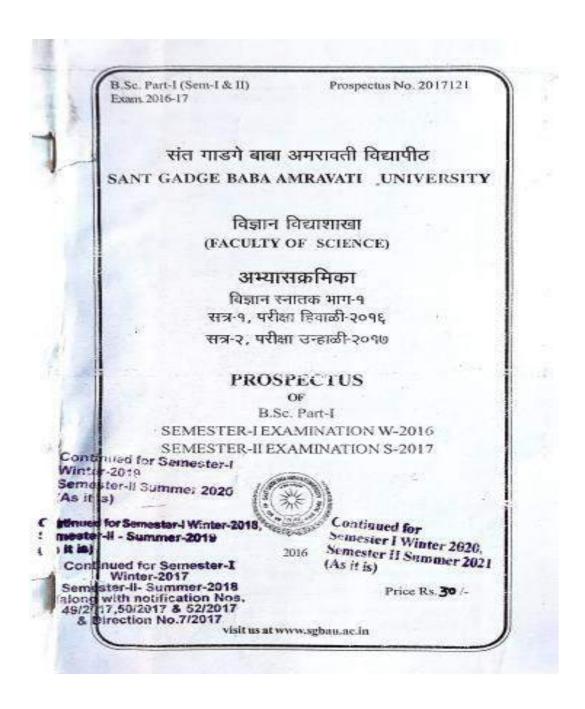
CLASS/SEM B.

SC. F. Y. SEM (I)

UNIT 1

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

ENVIRONMENT



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 massessment) and practical examination of 50 marks. Candidates are required pass separately in theory and practical examination.

1.	P	aper - 1				Marks
SARVE AND		Theory	THE PERSON	SECTION SECTION		80
			Assessment		-	20
2.	P	ractical	sitsey L calmo outar, Phinases	evil Branci aver avell	ies ta Febru	50 oper Origin of
	-	min - Risd	martive Metho	Earth A	Crust	150 Marks Core
THE PERSON NAMED IN	15 N	Centralous	1S-BOT	ANY	olimiti	oner Miceral, Rock
D	iversi	4- P. A	lications of N	ficrobes :	and C	rvptogams
UNIT-I:	-		Asset To Proceed and Control	NAME OF TAXABLE PARTY.	V121226-1	Lightney Limited
	1.1	Cyanoba	cteria and its i	mpact on	origin	of life
-	1.2	Introduct	tion to Plant K	ingdom: (crypu	ogams
						oitat, form, nutrition Weiss and Mullers.
	1.4	General	Account of Vir	uses and s	tructu	re of TMV and HIV
UNIT-H	1.5	Bacteria	structure, Nu	trition and	i repr	oduction
	1.6	Role of	microbes in Ag	riculture,	Medi	icine and Industries
UNIT-II		CONTRACTOR DESCRIPTION	ncia (insulativa	a contractor	ni pagi	(15)
	2.1.	Classific	sses		SSILL	ch and G. M. Smith
	2.2.	General	characters of al	ion, Reser	ve for	ce to Habitat, Thallus od and Reproduction
ENIT-P	2.3.	General	characters of t	following	classe	es with special refer-
		2.3.1.	Chlorophyta	- Oedogo	nium	
		2.3.2.	Charophyta -	- Chara (7	hallu	s structure and
DNIT-N	/2	2.3.2. Physical	reproduction	- Chara (7	hallu	s structure and
DNIT-N	72	2.3.2.	reproduction Phaeophyta	- Chara (7) - Sargassı	hallu	s structure and
ENIT-N	Za and	Physical	reproduction	- Chara (7) - Sargassi)	Thallu ım (T	Thallus structure and

UNIT-III:	Fungi		(15)			
	3.1.	Classif	ication according to Ainsworth (1973)			
roteurist I -	3.2.	General characteristics of following classes with special				
aix procincal		referen	ce to examples mentioned -			
	apaiglé	3.2.1.	Mastigomycotina: Albugo (Cystopus)			
		3.2.2.	Ascomycotina : Aspergillus			
TO A SHIPLE OF		3.2.3.	Basidiomycotina: Puccinia graminis-tritici			
ICH ICH ICH ICH	Siznale	3.2.4.	Deuteromycotina: General characters			
landing and	3.3	Lichen	n-Types & Economic importance			
Unit-IV:	Bryoph	yte	make free tendency book vaced in Vistaria (22 cm. (15)			
	4.1.	Classification according to G. M. Smith				
	4.2.	Genera	l characters, thallus organization and life cycle of-			
		1.2.1.	Hepaticopsida - Marchantia			
		1.2.2.				
	4.3.	Evoluti	ion of sporophyte in bryophytes			
	4.4.		ies of bryophytes with algae and pteridophytes			
	4.5.		ccount on some Indian Bryologist.			
Unit-V:	Pterido		WATON-EI (15)			
			phytes as First Vascular Plants.			
	5.2.		ication according to G. M. Smith			
			l characters of the following classes with special			
			ce to examples mentioned –			
			Sphenopsida – Equisetum			
			Filicopsida – Marsilea			
VIII blis V	5.4.		pes in pteridophytes			
	5.5		spory and Seed Habit in Pteridophytes			
Unit-VI:	Apr	FFECTIVE CAR	of Microbes Cryptogams (15)			
6.1. Economic Importance of Algae with special reference to						
		The state of the s	agriculture and Harmful aspects			
6.2.		A PART OF THE PART	- Types and Application			
6.3.	THE RESERVE AS A STATE OF	Role of Fungi in Industries, Medicine, Food & Agriculture				
6.4.	THE RESERVE AND ADDRESS OF THE PARTY.	nt Diseases –				
distantinial	6.4.	1. Viral	- TMV			
	6.4.	2. Bacte	eria – Black arm of cotton			
		(Xan	thomonos malvacearum)			
	6.4.	The second second second	al - Tikka disease of groundnut			
			cospora sps.)			
6.5.	Eco		and Ecological Importance of Bryophytes			

BOTANY

CLASS/SEM B. SC. S. Y. SEM (III) UNIT 1 CONCEPT OF BIODIVERSITY ENVIRONMENT ENVIRONMENT

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7. BOTANY 3S-BOTANY

ANGIOSPERM SYSTEMATICS, ANATOMY & EMBRYOLOGY

UNITI: Angiosperm Systematics and Biodiversity.

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

UNITH: 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.

UNITIV: 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.

UNITY: Anatomy

5.1 Anatomy of stem: Primary structure in monocot and dicot

BOTANY

CLASS/SEM B. SC. T. Y. SEM (V) UNIT 05: ECOLOGY & ENVIRONMENT

46

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

B.Sc. Final Year, Semester-V 7: BOTANY

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

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

5S - BOTANY PLANT PHYSIOLOGYAND 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 Career Concept,
 Passive up take 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, Kreb cycle, Electron transport system and Chemiosmotic ATP generation, Respiratory Quotient.

Unit - III: Metabolism and growth

- Nitrogen Metabolism- Sources of nitrogen, Symbiotic nitrogen fixation, Role of Nitrate reductase.
 - 3.2 Growth Phases of growth, Growth curve, Physiological role of growth hormones (Auxins, Gibberellins, Cytokinins, Abscisic acid, and Ethylene).
- 3.3 Physiology of Senescence and Abscission.

Unit - IV: Plant responses

- 4.1 Photoperiodism Concept of Florigen, Role of Phytochrome,
 - 4.2 Vernalization-Concept and Significance.
 - 4.3 Plant movement- Tropic (Phototropic and Geotropic) and Nastic (Epinasty, Hyponasty and Seismonasty)
 - 4.4 Stress physiology- Concept, Types of stress, Water and Sammy Suess.

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)

- 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.
- To determine rate of photosynthesis under varying quality of light and CO2 concentration.
- To study the rate of photosynthesis in terrestrial plants with the help of Ganongs Photosynthometer.
- 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.
 - 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.
 - 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

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

Prospectus No. 2016123 B.Sc. Final (Sem-V & VI) Exam. 2015-16 संत गाडगेबाबा अमरावती विद्यापीठ SANT GADGE BABA AMRAYATI 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-VI, Summer-20 continued for Semester-V Semester VI- Summer-2018 (along with notification Nos. & Onwards 28/2017, 54/2017 & Continued for Semester V Winter 2020, Direction No. Semester VI Summer-2021 (Ad it is) Contd. for Semester-V ontinued for Semester-V Winter-2016 \ inter-2019 Semester-VI Summer-201 2015 Semester-VI Summer 2020 (Along with Notf. No.57 of 201 with notification No.56/2019 at www.sgbau.ac.in Continued for Semester-V Winter-2018, (Price-Rs.30-) Semester-VI - Summer-2019 s it is)

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			Rubber or Plastic.	
2.	Test tube	Tarson	To hod 12	20 Nos.
	Stands	Description of the Sales	Tubes	
3.	Burette	Luckrosena 11.1 I	Metal rod and	20 Nos.
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			tarson clamp.	
4.	Rubber Crock		To fit in	20 each
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			of all capacity.	
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	Pestal	etisagus îm 000	gnleno T	

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 devided into 6 units. There shall be one question on each unit, will internal choice and for each of 12 marks and one compulsory question covering all the syllabus of semester V(8 marks).

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:
 - Solid impingement devices
 - ii) Liquid impingement devices.
- d) Airborne diseases: Etiology, symptoms and prevention.
- e) Control of microorganisms in air.

mit-II : Microbiology of Soil.

- a) Microorganisms in soil.
 - b) Rhizosphere.
 - c) Decomposition of plant and animal residues in soil.
 - 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 :
 - Carbon cycle: CO2 fixation, organic carbon degradation.
 - Nitrogen cycle: Proteolysis, amino acid degradation, Nitrification, Denitrification, Degradation of nucleic acids.
 - iii) Sulphur cycle
 - Iv) Phosphorus cycle.
 - v) Biofertilizers, biological pest control.

nit III: Water Microbiology

 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.
- 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.
 - Treatment of water : Aeration, Coagulation, Flocculation, Sedimentation and Filtration.
 - Slow and Rapid sand filters: Construction, mechanism of filtration, differences.
 - Methods of chlorination : Plain, super chlorination, ammoniachlorine treatment, Break-point chlorination

B) Waste Water Treatment

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

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

1: 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) I sotopic Tracer Techniques Definition, Principle & applications.

Microbiology Practicals.

- 1. Bacteriological analysis of water and Waste Water.
 - a) Standard plate Count.
 - Multiple tube dilution technique (MPN for Coliform)
 - i) Presumptive test ii) Confirmatory test
 - iii) Completed test.
 - c) IMViC test for coliform
 - Multiple tube dilution technique for faecal strepto cocci.
 - Membrane filter technique for coliforms & faecal streptococci.
 - f) BOD estimation.
 - g) Isolation of Bacteriophage from Sewage.
 - 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
 - Separation of amino acids and sugars by paper chromatography.

Distribution of marks for Microbiology practical Examination:

	Total	- 50 marks
5.	Laboratory Journals	- 05 Marks
4.	Spotting	- 10 marks
3.	Viva Voce	- 10 marks
2.	Minor Experiment	- 10 Marks
1.	Major Experiment	- 15 marks

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 devided into 6 units. There shall be one question on each unit, will internal choice and for each of 12 marks and one compulsory question covering all the syllabus of semester VI(8 marks).

ZOOLOGY CLASS/SEM

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

UNIT 05 ECOLOGY

UNIT 06 ECOSYSTEM

ENVIRONMENTENVIRONMENT

70

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

DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION.

	Total Marks:	50
7.	Submission of study tour report.	05
6.	Viva - Voce	05
5.	Class record	05
4.	Practical on evolution -	10
3.	Spotting. (Specimens, Slides, bones, fossil)	10
2	Permanent stained micro preparation.	05
1.	Dissection: -	10

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 Practical: 50 Total: 150 Marks **ZOOLOGY Paper 4S** ADVANCED GENETICS AND ANIMAL ECOLOGY UNI Someopt of gomes. 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. 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 Sex determination: Autosomes and sex chromosomes, Sex determination in animals, Chromosomal Theory. Genic Balance Theory. Environmentally and hormonally controlled sex determination, Gynandromorphs. Genetic disorders; Sickle cell anemia, , Huntington's chorea.

Diabetes mellitus. Non-disjunction: Turner's syndrome, Klinefelter's syndrome, Down's syndrome.Edwrd's

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

UNITIV: 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

UNITY : Ecology: concept and scope:

Abiotic factors:

Water: Properties, water problem in terrestrial and aquatic habitat. Temperature: Temperature range, Temperature tolerance, Effects of temperature on animals. Homeotherms, poikilotherms. Dormancy, hibernation, aestivation & diapauses. Light: Spectral

distribution, Biological effects of light on aquatic and terrestrial animals: Reproduction, Metamorphosis, pigmentation, vision, photo kinesis, phototropism, photoperiodism, migration.

Biotic factors:

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

UNITVI: 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:

- 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.
- Principles of Genetics: Sinnot, 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.
- 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.
- Detection of monohybrid and dihybrid cross with the help of plastic beads.
- 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.
- 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

- Use of pH meter for estimation of pH in soil samples, b. Use of pH meter for estimation of pH in water samples
- Estimation of Dissolved oxygen, salinity, pH, free CO2, carbonates and bicarbonates, calcium in water samples.
- Adaptations of aquatic and terrestrial animals based on a study of museum specimens. Such as rocky, sandy, muddy shore animals, flying and burrowing animals.
- Study of natural ecosystem and field report of the visit.
- 5. Field collection methods;
- Identification of common animals Soil invertebrate diversity, diversity of birds and mammals in parks / botanical gardens, threats to local biodiversity.
- Construction of a food web diagram based on a field visit.
- 8. Mounting of plankton.
- Qualitative analysis of fresh water plankton

C) General:-

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

DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION.

2	Ecological: Estimations -/ Analysis	10
-	Spotting. (2Spot from Sec.A & 3 Spot from Section B of 2 Marks each)	10
3.	Micro preparation.	05
4.	Genetic experiment -	10
5.	Class record	05
6.	Viva - Voce	05
7.	Submission of study tour report.	05
	Total Marks:	50

CLASS/SEM B. A. I SEM I

PROSE: SPEECH ON INDIAN INDEPENDENCE: JAWAHARLAL NEHRU

PROSE 4: VALUES IN LIFE ENVIRNMENT

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. 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 UNITII 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 UNITIV COMMUNICATION SKILLS -10. Unseen Passage 11. Letter Writing (Personal & Business Letters)
12. Curriculum Vitae (CV) 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 MIN PASSING MARKS: 32 MARKS MAX MARKS INTERNAL ASSESSMENT: 20 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. ii) The students will have to answer TWO out of FOUR long answer questions of 5 marks each. 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.

English

CLASS/SEM B.Sc.-I

Environment And Sustainability

PROSE 4: WATER THE ELIXIR OF LIFE - C. V. RAMAN

SANI GADGE B	ABA AMRAY	VATI UNIVERSITY GAZETTE - 2017 -	PART TWO -199
Communication Skills For I Semester) Everyday English Pa) Preparing Curriculum) Letter Writing (Appl	rt I n Vitae	s, Formal letters)	
For II Semester) Everyday English Pa) Report Writing) Paragraph Writing	ert II		
		COMPULSORY ENGLISH 1S Compulsory English	
) Theory i) Internal Assessment Total) Theory : Time : 2 H	50 marks	Total ma	rks: 40
Prose Section :		- Premchand - Seathal	
. A Simple Philosophy	Name and Association of the State of the Sta	N. W. Pinger	
. Water- The Elixir of		- C.V.Raman	
Poetry Section Say Not the Struggle God's Grandeur Ode to Autumn Bangle Sellers Stay Calm	Naught Availeth	- Arthur Hugh Clough - GM Hopkins - J Keats - S Naidu - G. Kleiser	
Grammar: For Sem-) Parts of Speech. !) Use of Articles, Prep) Transformation.		se,	
Communication Skills) Everyday English Pa b) Preparing Curricular b) Letter Writing (Appl	rt I n Vitae	is, Formal letters)	
		Distribution of Marks.	0004220000
Maximum Marks : 40		Time : T	wo Hours
Q.2: There shall be prescribed prescribed p	e four long answ rose. Out of these	ver questions based on prescribed prose. ver questions based on s, students will have to answer	05 marks
Q.3: There shall be prescribed po		er questions based on se, students will have to answer	10 marks
Q.4: There shall be from Gramm	e five questions	of one mark each, for Do as directed ech, Use of articles and Prepositions,	05 marks
Q.5: There shall b Q.6: There shall b	e five questions se one question o	of one mark each, from Everyday English n Preparing a Curriculam Vitae or Letter Writing	05 marks 05 marks
i) Internal Assessmen		Unit Tests - 06 marks Assignment - 04 marks Total 10 marks	
		2S Compulsory English	
) Theory i) Internal Assessment Total			
F.50-8581			
) Theory: Time: 2 H	lours	Total Ma	rks: 40

Marathi

CLASS/SEM B.A.-II SEM-

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Environment And Sustainability

ADNYAPATRA

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	आरसा विज्ञानयुगात भारत गाडगेबाबाच्या कीर्तनात स्मशानातील सोन स्त्रीवादी चळवळीने आग्जाणीव दिली	विभाग ले तत्त्वज्ञान न्हाला आमच्या अस्तित्वाची विभाग	ताराबाई डॉ. बाब जयंत न ब) लिल प्रबोधनव अण्णा १ विद्युत १ क) कवित	शिये गराहेव अविडकर गरळीकर हार के.सी. ठाकरे माऊ साठे मागयत		
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(1)	आरसा विज्ञानयुगात भारत गाडगेबाबाच्या कीर्तनात स्मशानातील सोनं स्त्रीवादी चळवळीने आग्जाणीव दिली संत्रवाणी सारेच दीप कसे मंदाय जियलगा जागाजाभी पेटवू नका देश	विभाग ले तत्त्वज्ञान न्हाला आमच्या अस्तित्वाची विभाग	ताराबाई डॉ. बाव जयंत न ब) लितर प्रबोधनर अण्णा व विद्युत व क) कविर अ) एक ब) कान अनिल शांता व भा. प	शिये तासाहेव अविडकर तर्कीकर हार के.सी. ठाकरे भाऊ साठे भागयत ता नाथ होपात्रा किरे साठके पर सावळे फी अहमद बेग		
(a) (a) (b) (a) (a) (b) (a) (b) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	आरसा विज्ञानयुगात भारत गाडगेबाबाच्या कीर्तनात स्मशानातील सोन स्त्रीवादी चळवळीने आन् जाणीव दिली संतवाणी सारेच दीप कसे मंदाय जिवलगा जागजामी	विभाग ले तत्त्वज्ञान न्हाला आमच्या अस्तित्वाची विभाग	ताराबाई डॉ. बाब जयंत न ब) लितः प्रबोचनः अण्णा १ विद्युत १ क) कविः अ) एक ब) कान् अनिल शांता ई भ.मा. १ राजेश	शिये तासाहेव अविडकर तास्कीकर हार के.सी. ठाकरे माऊ साठे माग्यत नाथ होपात्रा किके परसावळे पति अहमद बेग महल्ले		
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Sr.No	DEPARTMENT SY	/LLABUS	CATEGORY	EVENTS
1	CHEMISTRY	NIL		Soil & water analysis
2	COMPUTER SCIENCE	NIL	Professional Ethics	Cryptocurrency
3	ELECTRONICS	NIL		
4	MATHEMATICS	NIL		
5	PHYSICS	1. B. SC. S. Y. SEM (III) UNIT VI ATMOSPHERE & GEOPHYSICS 2. B. SC. S. Y. SEM (IV) UNIT VI: RENEAWABLE ENERGY SOURSES	ENVIRONMENT	
6	BOTANY	1. F. Y. SEM (I) UNIT 1.3 DIVERSITY OF PLANTS WITH RESPECT TO HABITAT NUTRITION & ECOLOGICAL SYSTEM 2. S. Y. (III) UNIT 1 CONCEPT OF BIODIVERSITY 3. T. Y. (V) ECOLOGY & ENVIRONMENT	ENVIRONMENT	Ecofriendly rakhi preparation and celebration, Tree Plantation, Ecofriendly Ganesh idol Making, Seed Ball Preparation, Medicinal Plant Exhibition, Ecofriendly Colors Preparation, Field Visits
7	MICROBIOLOGY	1. B. SC. T. Y. SEM V ENVIRONMENTAL MICROBIOLOGY	ENVIRONMENT	World Tuberculosis Day
8	ZOOLOGY	1. B. SC. II (IV) UNIT 05 ECOLOGY 2. B. SC. II (IV) UNIT 06 ECOSYSTEM	ENVIRONMENT	World Tiger Day, World Ozone Day, Wildlife Week, World Sparrow Day, Birds Week, National Science Day
9	ENGLISH	1. B. A. I (I) PROSE 3 SPEECH ON	HUMAN VALUES	Duj
		2. B. A. I (I) POETRY 7 MIDDLE AGE	HUMAN VALUES	
		3. B. A. I (II) PROSE 4: VALUES IN LIFE	HUMAN VALUES	
		4. B. A. I (II) POETRY 5: MONEY MADNESS	HUMAN VALUES	_
		B. COM. III SEM. V PROSE : 1. RATAN TATA 2. STEVE JOBS	PROFESSIONAL ETHICS	

		B. COM. II SE. IV		<u> </u>
		PROSE 2 : FLORENCE NIGHTINGALE : LYTTON STRACHEY	GENDER	
		B. A. I PROSE: SPEECH ON INDIAN INDEPENDENCE : JAWAHARLAL NEHRU PROSE 4: VALUES IN LIFE B. A. II 3. PROSE: THE HAPPY PRINCE B. A. III PROSE 1. QUALITY B.SC. I PROSE 4.: WATER THE ELIXIR OF LIFE – C. V. RAMAN	ENVIRONMENT	
10	ECONOMICS	NIL		World Population Day
11	MARATHI	1. B. A. II (IV) STRI PURUSH TULANA	GENDER ENVIRONMENT	Gandhian Thought Exam, Mahanubhav Workshop, Exhibition of Saint Liturature
		3. B. A. II (III) ADNYAPATRA	ENVIKUNVIENI	
12	HISTORY		NIL	History Department Celebrated Hiroshima Day Every Year
13	POLITICAL SCIENCE	B. A. (I) UNIT 1 PREAMBLE – NATURE & IMPORTANCE	HUMAN VALUES	HUMAN VALUES Voters Awareness
		B. A. (I) UNIT WOMEN PARTICIPATION IN PANCHATRAJ OF MAHARASHTRA	GENDER	Rally,
	COMMERCE	B.COM. II SEM (I) ACCOUNTS	HUMAN VALUES	Computer Science Department organized
		PRINCIPALS OF ORGANIZATION	ENVIRNMENT	workshop on Ethical Hacking, Cryptocurrency and
		COMPUTER AND FUNDAMENTAL SYSTEMS	PROFESSIONAL ETHICS	Workshop on Cyber Security

Activities Conducted for the Address cross

cutting issues relevant to Professional Ethics,

Gender, Human Values, Environment and

Sustainability intothe Curriculum

Academic Session

2017-18 to 2021-22

Activities Conducted for the Address to Gender Sensitization

Activities Conducted for the Address to Human Values

Activities Conducted for the Address to Environment &Sustainability

2017-2018 to 2021-2022

Drinking water arrangement for birds



Organized on the behalf of NSS Department at Dr. H. N. Sinha College here. On this occasion a program was organized to sensitize students regarding birds and nature conservation. The theme of the program was to install clay water pots for sparrow and other urban birds



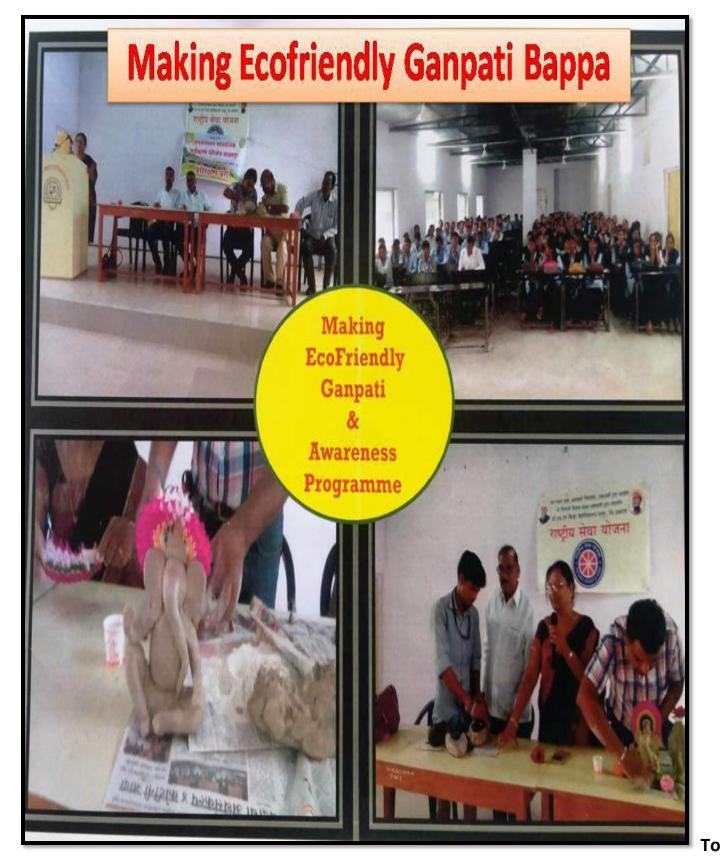
Blood Donation Camp- was organized at college campus by NSS



Voter Awareness camp and introduction of EVM Machine was organized at college campus by NSS



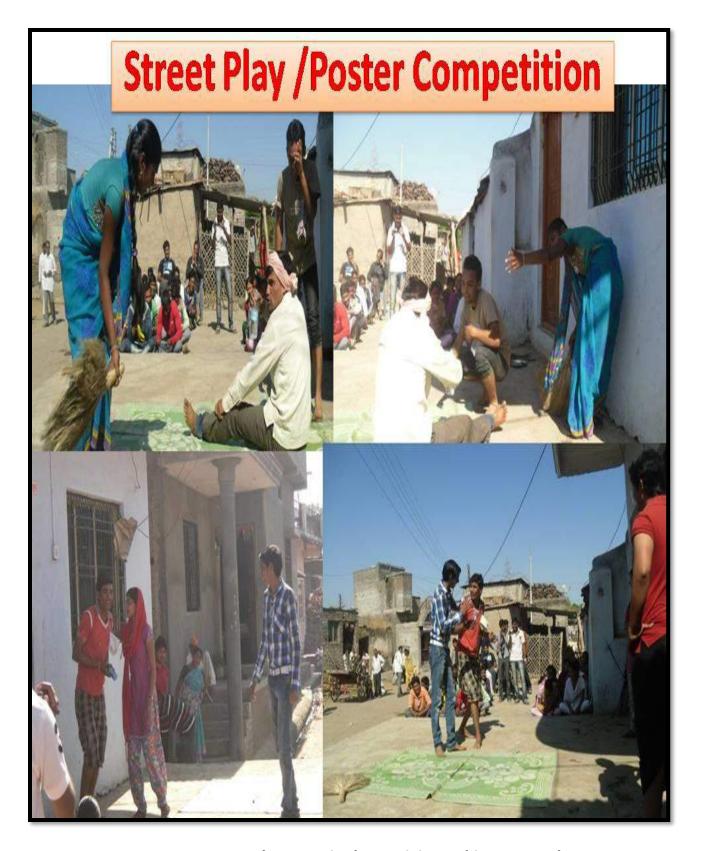
To celebrate the spirit of Raksha Bandhan, the Department of NSS, Dr.H.N.Sinha Arts and Commerce College Patur, organized an Eco-friendly Rakhi making competition in the college campus. All the students showcased their artistic skills to weave magic with colorful threads and eco-friendly materials.



create awareness about water pollution and soil pollution 'Eco-friendly Ganesh Idol Preparation Workshop' was organized .



NSS students actively participated in Swachchha Bharat Abhiyan and Holi Celibrations waste material like Ghutaka, Khaine, Pan masala and other bad habits.

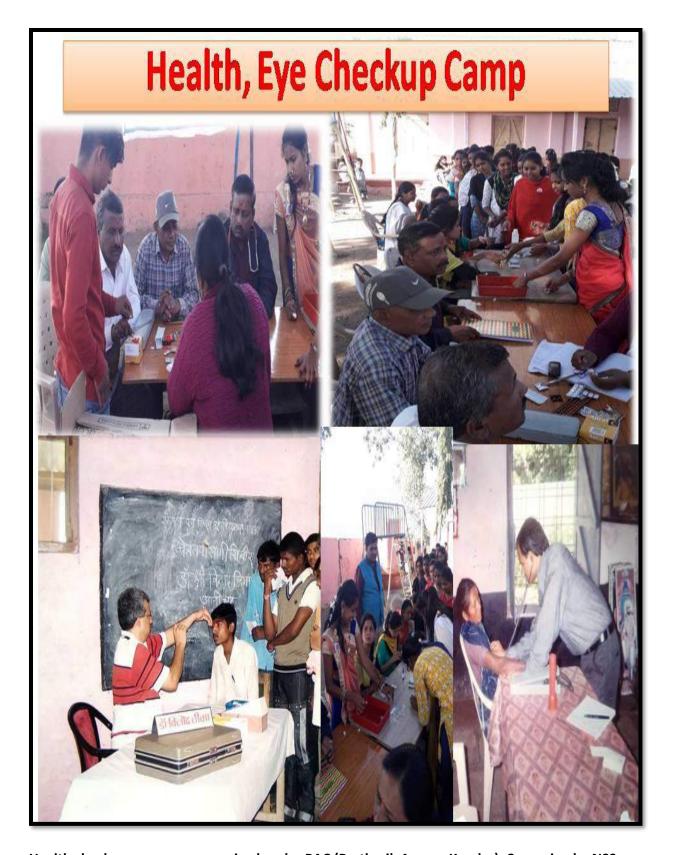


NSS students actively participated in Street Play

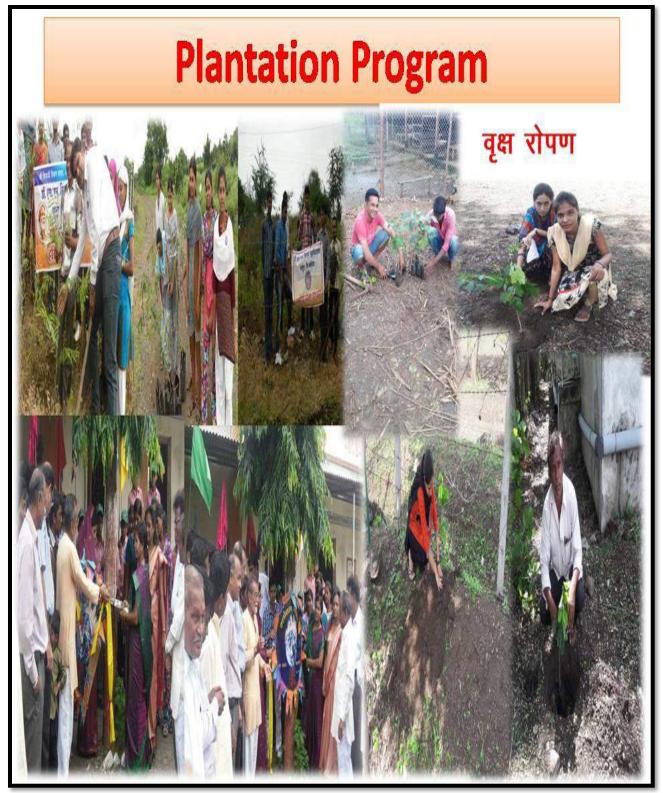


Tree

plantation and tree plantation awareness rally was organized under Mazi Vasundhara (My Earth) Campaign by NSS This Campaign was organized To make students aware of environmental issues and enrich their thought process regarding environmental issues. Saplings of Neem, Peepal, Gulmohor, Palm has been planted at campus. Students were participated in rally.



Health checkup camp was organized under PAC (Prathmik Arogya Kendra) Campaign by NSS.



Tree

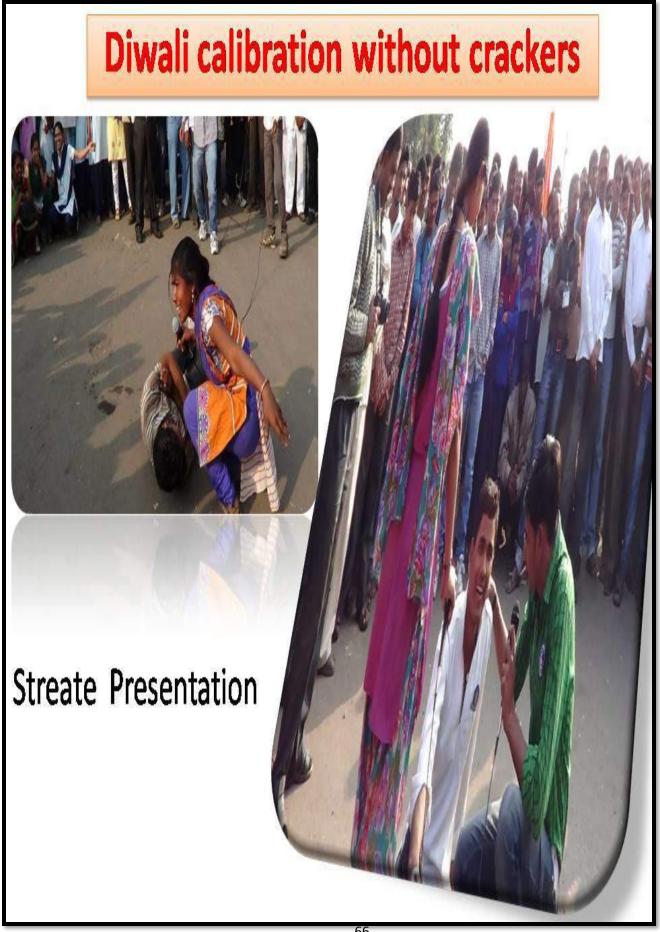
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Rain Water Harvesting project. Conducted by NSS, Department.



Tree plantation program conducted every year by NSS, Department.



NSS Actitivities

सर्व शिक्षा अभियान शाळा बाहय विद्यार्थी सर्वे (पातुर तालुका)





DEPARTMENTAL OTHER ACTIVITIES









New Scheme Vichar Sabha

Certificate







Special Camp Target





NSS students actively participated in Swachchha Bharat Abhiyan .



News Paper Cuttings.