



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA (MS)

Affiliated with Sant Gadge Baba Amravati University, Amravati (MS)

UGC Status- College with Potential for Excellence (Phase II Completed)

DST- FIST (Level "00") Support;

Lead College Status by S. G. B. Amravati University, Amravati (MS)

Website: www.shivajia.ac.in

1.3.1

**Institution integrates cross cutting issues relevant to
Gender, Environment and sustainability, Human Values
and Professional Ethics into the Curriculum**

Academic Year: 2021-2022

The college, as a unit, follows a system that inculcates the cross-cutting issues related to Gender, Environment and Sustainability, human Values and Professional Ethics into curriculum. The syllabuses of Science, Humanities and Commerce have all the above said topics in its curriculum. The students are taught these topics with equal vigour along with other contents. Apart from the regular teaching on these issues, the college has other mechanisms to address them.

After admissions, gender audit is carried out every year. On an average the college has almost equal male-female student ratio. “Vishakha” a committee dedicated for welfare of women, works effectively to look into the issues of harassment of girls and female staff, if any. The health awareness programmes also are carried out every year in college. Biochemistry and Microbiology departments conduct Hemoglobin tests, blood group check-up of girl students and suitable diet plans are suggested. There is a separate and spacious Girls’ common room having sanitary napkin vending machine installed in it. The detailed history of girl students’ menstrual and other health problems is noted down and proper medication is prescribed. To boost the confidence of girl students, women working in various fields from Akola are felicitated on Women’s Day. Workshop on 'Awareness and Training on Sudden Cardiac Arrest' by department of Biochemistry in collaboration with Sath Sevak Foundation and iCARE was also organized.

In third and fourth semester of all faculties, Environmental Studies is a compulsory subject, in which the students get detailed information on the issue of Environment. Apart from regular teaching of this subject, the college conducts various programmes to let student remain more aware of the sustainability of the environment. Every year, the “Forest Conservation Day” is celebrated on 23rd July to make students aware about conservation and protection of forest and its ecological importance. Ozone Day is also celebrated on 16th September and “Wildlife Conservation Week” is celebrated from 1st October to 7th October. At the same time the college follows it practically and has a “Green Campus”. We also have a solar unit installed in college that saves energy as well as money and man power.

As a part of inculcating human values among the students, apart from chapters in syllabus, the students are given information through various platforms and programmes. The N.S.S. and N.C.C units help volunteers and cadets understand the importance of community, its need and problems better. NSS & NCC departments have separate wings for girls. These two units help

Criterion – I- Curricular Aspects [QIM – 1.3.1]

students develop character, discipline, leadership, secular outlook. The “National Yoga Day” is celebrated every year on 21st June. On 26th September 2018 an “Awareness on Prevention of diseases” programme was conducted. Along with this “Women Empowerment Workshop” was conducted at Goregaon Khurd, in which various issues about women empowerment were addressed. Also, almost all departments work on sensitization of various social issues. The Entrepreneurship Cell is of immense help in providing students the professional skills and a platform to explore their creativity.

Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA

NAAC Re-Accredited with A++ grade with CGPA 3.58
 UGC Status 'College with Potential for Excellence', DST-FIST level- 0 Support
Lead College status by S.G.B.A.U. Amravati
 Near Shivaji Park, Akola - 444 001 (Maharashtra)
 Phone & Fax : 0724-2410438/2411039
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Late Dr. Panjabrao alias Bhausaheb Deshmukh
 Founder President

Shri. Harshvardhan P. Deshmukh
 President


Dr. Ambadas L. Kulat
 Principal


No. SSC/AKL/

Date 08.02.2023

Declaration

This is to declare that the information, reports, true copies and numerical data etc. furnished in this file as supporting documents is verified by IQAC and found correct.


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 Co-ordinator, IQAC
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Dr. A. L. Kulat
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Contents

Syllabus on Environment and Sustainability

Environmental Studies.....	8-12
Botany.....	13-21
Zoology.....	22- 28
GeoInformatics.....	29-33
Biochemistry.....	34
Geology.....	35-39
Psychology.....	40
English Literature.....	41
Marathi.....	42-51
Political Science.....	52-53

Syllabus on Human Values

Language.....	54-55
Marathi.....	56-57
Home science.....	58-69
Psychology.....	70-70
Political Science.....	71 -71
Economics.....	72-77

Syllabus on Gender Sensitization

Activities Conducted for the address cross cutting issues relevant to Environment and Sustainability, Gender ,Human values, Professional Ethics.

Criterion – I- Curricular Aspects [QIM – 1.3.1]

Report on Nutritional week.....	78-94
Report on World Wetland Day.....	95-107
One day workshop on,” World Breast Feeding Week”.....	108-160
Workshop on IPR.....	161-172
World Tiger Day.....	182-192
World Sparrow Day.....	193-215
Forest Conservation Day.....	216-228
National conference on Contribution of Indian Thinkers and Literary Writers...	242-244
NSS volunteers Swachh Bharat Swasth Bharat Abhiyan.....	245-246
NSS volunteers cleaning premises.....	247-249
College students taking oath of cleanliness under Swachh Bharat Abhiyan.....	250-251
Workshop on Research Methodology.....	252-255

Syllabus on Environment and Sustainability

24. ENVIRONMENTAL STUDIES**Total Marks : 100****PART-A****SHORT ANSWER PATTERN****25 Marks****1. The Multidisciplinary nature of environmental studies**

- . Definition, scope and importance.
- . Need for public awareness. (2 lecture hours)

2. Social Issues and the Environment

- . From Unsustainable to Sustainable development
- . Urban problems related to energy
- . Water conservation, rain water harvesting, watershed management
- . Resettlement and rehabilitation of people; its problems and concerns.
- . Case studies.
- . Environmental ethics : Issues and possible solutions.
- . Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- . Wasteland reclamation.
- . Consumerism and waste products.
- . Environment Protection Act.
- . Air (Prevention and Control of Pollution) Act.
- . Water (Prevention and Control of Pollution) Act.
- . Wildlife Protection Act.

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- . Forest Conservation Act.
- . Issues involved in enforcement of environmental legislation.
- . Public awareness. (7 lecture hours)

3. Human Population and the Environment

- . Population growth, variation among nations.
- . Population explosion - Family Welfare Programme.
- . Environment and human health.
- . Human Rights.
- . Value Education.
- . HIV / AIDS.
- . Women and Child Welfare.
- . Role of Information Technology in Environment and human health.
- . Case Studies. (6 lecture hours)



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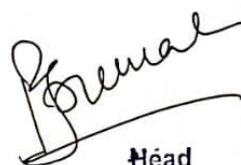
PART-B
ESSAY TYPE WITH INBUILT CHOICE

50 Marks

4. Natural resources :

• Renewable and non-renewable resources :

- **Natural resources and associated problems.**
- **Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.**
- **Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams- benefits and problems.**
- **Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.**
- **Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.**



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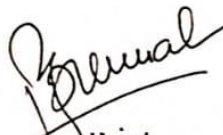
- **Energy resources** : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.
 - **Land resources** : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
 - **Role of an individual in conservation of natural resources.**
 - **Equitable use of resources for sustainable lifestyles.**
- (8 lecture hours)

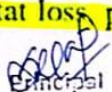
5. Ecosystems

- **Concept of an ecosystem.**
 - **Structure and function of an ecosystem.**
 - **Producers, consumers and decomposers.**
 - **Energy flow in the ecosystem.**
 - **Ecological succession.**
 - **Food chains, food webs and ecological pyramids.**
 - **Introduction, types, characteristic features, structure and function of the following ecosystem :-**
 - **Forest ecosystem**
 - **Grassland ecosystem**
 - **Desert ecosystem**
 - **Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)**
- (6 lecture hours)

6. Biodiversity and its conservation

- **Introduction - Definition : genetic, species and ecosystem diversity.**
- **Biogeographical classification of India.**
- **Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.**
- **Biodiversity at global, National and local levels.**
- **India as a mega-diversity nation.**
- **Hot-spots of biodiversity.**
- **Threats to biodiversity : habitat loss, poaching of wildlife, man/wildlife conflicts.**


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- . Endangered and endemic species of India.
 - . Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)
7. **Environmental Pollution**
- . **Definition**
 - . **Causes, effects and control measures of :-**
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution
 - Nuclear hazards
 - . **Solid Waste Management : Causes, effects and control measures of**
 - . **Role of an individual in prevention of pollution.**
 - . **Pollution case studies.**
 - . **Diaster management : floods, earthquake, cyclone and landslides.** (8 lecture hours)

PART-C

ESSAY ON FIELD WORK

25 Marks

8. **Field work**
- . Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
 - . Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
 - . Study of common plants, insects, birds.
 - . Study of simple ecosystems - pond, river, hill slopes, etc. (5 lecture hours)

(Notes : i) Contents of the syllabys mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.

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76

- 24. Preparation and presentation of herbarium of pathological specimens available in the region (Atleast 30)
- 25. Preparation of Fungal spore atlas.
- 26. Field visit to different localities
- 27. Visit to Agriculture University, Plant Pathological research centers

Semester – III
ELECTIVE PRACTICAL -VI: APPLIED MYCOLOGY AND
PLANT PATHOLOGY
PRACTICAL SCHEDULED

- Time: 06 hrs. Maximum Marks: 40
- Q.1) Identify and describe any two fungal plant diseases..... 08 Marks
 - Q.2) Identify and give salient features of two fungi from the mix culture. 08 Marks
 - Q.3) Identify, classify and describe any two fungi. from given seed borne mycoflora/soil mycoflora/Rhizosphere mycoflora..... 05 Marks
 - Q.4) Demonstrate Koch's postulate/pure culture technique..... 04 Marks
 - Q.5) Spotting (Specimen/Slide) (01 - bacterial disease; 01-viral diseases, 01- Phytoplasmal disease; 01-Fungal disease, 01- Spore slide)..... 10 Marks
 - Q.6) Viva-Voce 05 Marks

M.Sc. PART-II BOTANY
Semester – IV
PAPER - XIII: PLANT ECOLOGY

- Unit I : Basic concepts and scope.**
- 1.1 Concept, Classification and scope of ecology: Holocoenotic Environment.
 - 1.2 Ecological factors: Climatic, Edaphic, Biotic; Law of limiting factors.
 - 1.3 El-Nino and global warming.
 - 1.4 Ozone layer, Ozone Depletion and its consequences.

- Unit II: Population and Community Dynamics**
- 2.1 Population characteristics; population dynamics, carrying capacity, various parameters and measurements.
 - 2.2 Community concept; characteristic features of communities analysis of communities (analytical and synthetic characters.

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AVO

2.3 Community coefficients; Ecotone and edge effects; ecological niche.

Unit III: Vegetation Development

AVD

3.1 Types and mechanism of ecological succession.

3.2 Plant Formation; Association, Consociation and Society.

3.3 Evolution of Ecosystem and oxygenic development.

Unit IV: Ecosystem Organization.

ISN

4.1 Structure and Functions of Ecosystem.

4.2 Abiotic and biotic components; decomposers role in ecosystem.

4.3 Primary productivity (methods of measurements, global pattern and controlling factors)

4.4 Energy Dynamics; Energy flow in Ecosystem, Trophic organization, ecological efficiencies; Ecomodelling.

Unit V: Ecosystem Functional aspects.

G.N.P

5.1 Biogeochemical cycles C, N, P, S; mineral cycles (Pathways, processes and budgets)

5.2 Ecosystem stability concepts, natural and anthropogenic disturbances.

5.3 Major Biomes of the world.

5.4 Terrestrial Biodiversity; Vegetation types of world and India, hot spots.

Prema

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Suggested readings:

- 1) Krebs, C.J. 1989. Ecological Methodology. Harper and Raw, New York, USA.
- 2) Ludwig, J.A. and Reynolds, J.F. 1988. Statistical Ecology, Wiley, New York.
- 3) Magurran, A.E. 1988. Ecological Diversity and Its Measurement, Chapman and Hall, London.
- 4) Pielou, E.C. 1984. The Interpretation of Ecological Data, Wiley, New York.
- 5) Sokal, R.R. and Rohit, F.J. 1995. Biometry, W.H. Freeman & Co. San Francisco.
- 6) Murray P.W. and Chapman, S.B. 1986. Methods in Plant Ecology, Blackwell Scientific Publication.
- 7) Misra, R. 1968. Ecology Work Book, Oxford and IBH New Delhi.
- 8) APHA - Standard Methods for Examination of Water and Waste Water, American Public Health Association, Washington, D.C.
- 9) Smith, R.L. 1996. Ecology and Field Biology. Harper Colins New York.

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- 28) To determine minimum size and number of quadrats required for reliable estimate of biomass in grasslands.
- 29) To find out association between grassland species using Chi-square test.
- 30) To compare protected and unprotected grassland stands using community coefficient (similarity indices).
- 31) To analyze plant community using Bra-Curtis ordination method.
- 32) To determine diversity indices (Shannon, Wiever, concentration of dominance, species richness, equitability and B-diversity) for protected and unprotected grassland stands.
- 33) To estimate IVI of the species in woodland using a point centered quarter method.
- 34) To determine grass and net phytoplankton productivity by light and dark bottle method.
- 35) To determine soil moisture content, porosity and bulk density of soils collected from varying depths at different locations.
- 36) To determine the water holding capacity of soils collected from different locations.
- 37) To determine present organic carbon and organic matter in the soil of cropland, grassland and forest.
- 38) To estimate the dissolved oxygen contained in eutrophic and oligotrophic water samples by azide modification of Winkler's method.
- 39) To estimate chlorophyll content in SO₂, fumigated and unfumigated plant leaves.
- 40) To estimate rate of carbon dioxide-evolution from different soils using soda lime or alkali absorption method.
- 41) To study environmental impact of a given developmental activity using checklist as a EIA method.
- 42) Visit to different forest areas to study ecosystem, bio diversity and biocomplexity. Visit to Molecular Biology laboratories.

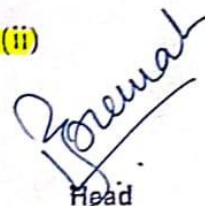
Semester – IV

PAPER –XIV: ENVIRONMENTAL ECOLOGY

Unit I: **Basic Concepts**

- 1.1 Concept of Environment and its Scope; Lithosphere, Hydrosphere, Biosphere.
- 1.2 Energy resources; (i) Renewable and non-renewable (ii) Forest types in India and Maharashtra.
- 1.3 Environmental impact assessment.
- 1.4 Green House gases; their sources, trend and role.
- 1.5 Consequences of climate change.

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Unit II: **Environmental pollution**

- NBC
- 2.1 Definition types and sources.
 - 2.3 Air pollution; Natural and man made sources of air pollution, primary and secondary pollutants, toxicity and its impact on environment.
 - 2.4 Soil Pollution: courses of soil pollution, impacts of soil pollution on quality and soil biota.
 - 2.5 Effect of solid waste disposal on soil.

Unit III: **Water Pollution.**

- ISN
- 3.1 Distribution of water and water scarcity.
 - 3.2 Major water pollutants
 - 3.3 Sources of water pollution
 - 3.4 Consequences of water pollution
 - 3.5 Water pollution indicators.
 - 3.6 Bioaccumulation and Biomagnifications of toxic elements in food chain.

Unit IV: **Conservation strategies**

- GND
- 4.1 Principles of conservation; extinction, environmental status of plants based on IUCN.
 - 4.2 Strategies for conservation. International efforts and Indian initiation.
 - 4.3 Wetlands, Mangrove and coral reefs with respect to conservation of biodiversity.
 - 4.4 Disaster management.

Unit V: **Sustainable Management.**

- RNP
- 5.1 Concept of sustainable development.
 - 5.2 Impact of urbanization; Wasteland development.
 - 5.3 General account of legislative measures for sustainable development and management
 - (i) Water Act, Prevention and control 1976.
 - (ii) Environmental Protection Act, 1985
 - (iii) Wildlife Protection Act, 1972; WWF.

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SUGGESTED READINGS:

1. Eldon D. Enger and Bradley F Smith (1995), Environmental Sciences, WBC publishers Boston.
2. Daniel Botkin and Edward Keller (1997), Environmental Sciences, John Wiley & Sons, New York.
3. R.K. Dixit, (1997), Environment, Forest Ecology and Man, Rastogi Publication.
4. Jorgeson S.E. *et al.* (1995), Handbook of Environmental and Ecological modeling, Levis publications, New York.

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83

13. To determine interaction between grassland species by chi-square test.
14. Comparative study of plant diversity indices.
15. Study of mean, variance, standard deviation, standard error, coefficient of variation and t-test for ecological data.

Semester – IV

PAPER – XV : PLANT BIOTECHNOLOGY

Unit-I: **Biotechnology: Basic concepts, Principle and scope.**

- 1.1 Cellular differentiation and totipotency
- 1.2 Plant Cell and tissue culture, Cell Clones, Callus culture.
- 1.4 Organogenesis and adventitive embryogenesis: Fundamental aspects of morphogenesis, Somatic embryogenesis and its applications.

NSS

Unit-II : **Somatic Hybridization:**

- 1.4 Androgenesis: Mechanism, techniques and applications.
- 2.1 Protoplast isolation, Protoplast fusion and protoplast culture limitation , achievement in protoplast research.
- 2.2 Cybrids and Hybrids, Selection of hybrids and regeneration, Somaclones.
- 2.3 Clonal propagation: Techniques and significance of artificial seeds.
- 2.4 Secondary metabolites: Production in tissue/s, enhancing the secondary metabolites by use of elicitors, hairy root cultures and types of elicitors (biotic and abiotic elicitors)
- 2.5 Cryopreservation : Germplasm storage, methods, merits and demerits.

NSS

Unit-III: **Plant transformation technology.**

- 3.1 Mechanism of DNA transfers, role of virulence genes, use of Ti and Ri plasmid as binary vectors, features of Ti and Ri plasmid.
- 3.2 Vector less DNA transfer - Particle Bombardment, Electroporation, and microinjection.
- 3.3 Genetically modified organisms in the Environment

NSS

Unit-IV: **Environmental Biotechnology**

- 4.1 Heavy metals environmental modification, Bioleaching and Microbial leaching.
- 4.2 Bioremediation- General idea of Xenobiotics, Biodegradation of Xenobiotics and applications.
- 4.3 Phytoremediation: Needs, Metal and organic phytoremediation.

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Unit –V: Applications

- NSS
- 5.1. Microbial genetic manipulation.
 - 5.2. Importance and application of microbes in Biotechnology
 - 5.3. Vermicomposting

Suggested Readings:

1. Bhojwani, S.S. and Razdan, M.K. 1996. Plant Tissue Culture: Theory and Practice (a revised edition). Elsevier Science Publishers, New York, USA.
2. Bhojwani, S.S. 1990. Plant Tissue Culture: Applications and Limitations. Elsevier Science Publishers, New York, U.S.A.
3. Collins, H.A. and Edwards, S., 1998. Plant Cell Culture. Bios Scientific Publishers, Oxford, UK.
4. Jain, S.M., Sopory, S.K. and Veilleux, R.E. 1996. *In Vitro* Haploid Production in Higher Plants, Vols. 1-, Fundamental Aspects and Methods. Kluwer Academic Publishers, Dordrecht, The Netherlands.
5. Kartha, K.K. 1985. Cryopreservation of Plant Cells and Organs. CRC Press, Boca Raton, Florida, USA.
6. Old, R.W. and Primrose, S.B. 1989. Principles of Gene Manipulation. Blackwell Scientific Publications, Oxford, U.K.
7. Primrose, S.B. 1995. Principles of Genome Analysis. Blackwell Science Ltd., Oxford, UK.
8. Raghavan, V. 1986. Embryogenesis in Angiosperms: A Developmental and Experimental Study. Cambridge University Press, New York, USA.
9. Raghavan, V. 1997. Molecular Biology of Flowering Plants. Cambridge University Press. New York, USA.
10. Shantharam, S. and Montgomery, J.F. 1999. Biotechnology, Biosafety, and Biodiversity. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
11. Vasil, I.K. and Thorpe, T.A. 1994. Plant Cell and Tissue Culture. Kluwer Academic Publishers. The Netherlands.
12. Butanco, R.G. 2000. Plant Cell Culture, University Press of Pacific.
13. Collin, H.A. and Edward S., 1998. Plant Cell Culture. Bios-Scientific Publishers, Oxford, UK.
14. Dixon, R.A. (Ed.) 1987. Plant Cell Culture: A Practical approach. IRL Press, Oxford.
15. George, E.F. 1993. Plant Propagation by Tissue Culture. Part-I. The Technology, 2nd Edition, Exegetics Ltd., Edington, UK.
16. George, E.F. 1993. Plant Propagation by Tissue Culture. Part-II in practice, 2nd Edition, Exegetics Ltd., Edington, UK.
17. Hall, R.D. (Ed) 1999. Plant Cell Culture Protocols. Humana Press, Inc. New Jersey, U.S.A.

PAPER-II: RESOURCE UTILIZATION AND CONSERVATION

- UNIT I: 1.1 Concept of Biodiversity; Species diversity; Genetic diversity; Ecosystem diversity.
- AVD 1.2 Origin of Biodiversity; values of Biodiversity; loss of Biodiversity.
- 1.3 Biodiversity and agriculture; Biodiversity and food diversity; Bioprospecting; commercial values of Biodiversity.
- 1.4 Conservation of Biodiversity; Implementation process in India CBD.

- UNIT II: 2.1 World centers of primary diversity of domesticated plants; Indo-Burmese centers.
- 2.2 Plant introduction and secondary centers.
- RNP 2.3 Origin, evolution, botany, cultivation and uses of:
- i. Food, Forage and Fodder crops.
 - ii. Fibre crops.
 - iii. Medicinal and Aromatic plants.
 - iv. Vegetable and Oil yielding plants.

- UNIT III: 3.1 Important fire wood and timber yielding plants and non wood forest products (NWFPs) such as Bamboo, Rattan raw materials for paper making, gums, resins, tannins, dyes, fruits
- FSM 3.2 Green revolution; Benefits and adverse consequences, sustainable agriculture, agroecosystem approach.
- 3.3 Innovative approaches for meeting world food demands; modern agricultural approach.
- 3.4 Plants used as 'Avenue trees' for shade, pollution control and aesthetics.

- UNIT IV: 4.1 Strategies for conservation of Biodiversity, global scenario, decline of bioresources.
- RNP 4.2 Protected areas concept: Sanctuaries, National parks, Biosphere reserves (Tiger reserves with reference to Melghat Tiger Project) Wildlife Management and Sacred groves.
- 4.3 Conservation of wild germplasm with reference to threatened species.

- UNIT V: 5.1 Principles and practices for *Ex-situ* conservation, Botanical gardens, Field Gene Banks, Seed Banks.
- AVD 5.2 *In-vitro* repositories, Cryobanks, Legal aspects of conservation of Biodiversity in India.
- 5.3 General accounts and activities of national institutes like Botanical Survey of India (BSI), National Bureau of Plant Genetic Resources (NBPGR), Indian Council of Agricultural

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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, Abscisic acid, and Ethylene).
- 3.3 Physiology of Senescence and Abscission.

Unit - IV: Plant responses

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

Unit - V: Ecology and Environment:

- 5.1 Concept of environment, Concept and scope of ecology.
- 5.2 Ecological factors- Climatic- Light, Temperature and Water.
- 5.3 Atmosphere and its composition.
- 5.4 Edaphic factor- Process of soil formation, soil profile, soil biota and their role.
- 5.5 Ecological Adaptations - Morphological and Anatomical adaptation in Hydrophytes, and Xerophytes.

Unit - VI: Ecosystem:

- 6.1 Population Ecology- Natality and Mortality, Community characteristics – Frequency, Density and Abundance
- 6.2 Ecological Succession - Hydrosere and Xerosere
- 6.3 Ecosystem – Definition, Structure and Function,

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

6.4 Types of Ecosystem- Pond ecosystem, Desert ecosystem.

LABORATORY EXERCISE :

Plant Physiology: Major experiment (Any Seven)

1. To study the effect of temperature and organic solvent on permeability of plasma membrane.
2. To study osmotic pressure of cell sap by plasmolytic method.
3. To determine water potential of plant tissue.
4. To determine the path of water (ascent of sap)
5. To determine the rate of transpiration by Ganongs photometer.
6. To determine rate of photosynthesis under varying quality of light and 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)

23

M.Sc.I: Zoology

Semester – II

PAPER VIII

ENVIRONMENT AND ECOLOGY

- Unit-I : 1.1. The Environment:
1.1.1 Physical environment;
1.1.2 Biotic environment;
1.1.3 Biotic and abiotic interactions.
12. Habitat and niche:
1.2.1 Concept of habitat and niche; niche width and overlap; fundamental and realized niche; resource partitioning; character displacement.
13. Population ecology: Characteristics of a population; population growth curves; population regulation; life history strategies (r and k selection); concept of metapopulation, demes and dispersal, interdemic extinctions, age structured populations, Diversity Index: Simpson's index, Shannon's index
14. Species interactions: Types of interactions, interspecific competition, herbivore, carnivores, pollination, symbiosis.
- Unit II : 2.1. Community ecology:
2.1.1 Nature of communities; community structure and attributes;
2.1.2 Levels of species diversity and its measurements;
2.1.3 Edges and ecotones.
22. Ecological succession: Types; mechanisms; changes involved in succession; concept of climax.
23. Ecosystem:
2.3.1 Structure and function; energy flow and mineral cycling (CNP);
2.3.2. Primary production and decomposition;
2.3.3. Structure and function of some Indian ecosystems;
2.3.3.1. Terrestrial (forest, grassland) .
2.3.3.2. Aquatic (fresh water, marine, estuarine).

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24. **Biogeography:**

24.1. Major terrestrial biomes;

24.2. Theory of island biogeography;

24.3. Elementary idea of, biogeographical zones of India.

Unit III : 3.1. **Environmental Pollution-**

3.1.1. Sources nature and effects of air pollutants

3.1.2. Sources nature and effects of Water pollution

3.1.3. Biodegradation and bioremediation

3.1.4. Biotechnological methods for Management of pollution

3.2. **Global climate change; Global warming, Global dimming,**3.3. **Biodiversity-statuses;**

3.3.1. Monitoring and documentation;

3.3.2. Major drivers of biodiversity change;

3.3.3. Biodiversity management approaches,

3.3.4. Economics of Biodiversity

Unit-IV : 4.1 **Conservation biology:**

4.1.1. Principles of conservation; major approaches to management, Indian case studies on conservation/management strategy;

4.1.2. Sanctuaries and National Parks,

4.1.3. Project Tiger,

4.1.4. Biosphere reserves.

4.2 **Toxicology**

4.2.1. Metabolism & effects of Organochlorine, organophosphate and carbamate pesticides

4.2.2. Metabolism & effects of alkaloids, barbiturates, alcohol & cyanides.

4.2.3. Metabolism & effects of heavy metal salts.

4.2.4. Formation & effects of free radicals.

4.2.5. Biochemistry of Detoxification – Phase I & phase II reactions.

25

Unit-V : 5.1 Environmental Monitoring:

5.1.1- IGPCCE (Inter Government Policy/ Protocol for Climate change)

5.1.2- EPA (Environmental Protection Agency)

5.1.3- Laws, legislation pertaining to environment

5.1.4- Control, monitoring & surveillance of environment.

5.1.5- IPR (Intellectual Property Rights) ; Patents need how to obtain in India & abroad, patent offices in India.

5.2. Environmental Impact Assessment Processes:

5.2.1. EIA of reservoirs and Coal mines, thermal Power stations

Suggested reading materials: (All recent editions)

1. Toxicology - A Sood , Sarup & Sons, New Delhi.
2. Biodegradation of pesticides - G. N. Vankhede , Bajaj Publication
3. Environmental biodegradation, Ramkumar, Sarup & Sons, New Delhi
4. Toxicology by Parikh.
5. Poisoning by drugs & chemicals - Cooper
6. Animal Physiology, mechanism & Adaptation - Eckert, Marshall
7. Animal Physiology, Principal & Adaptation- Garden M. S.
8. Human Physiology- C. C. Chatterji Vol. I and II
9. Analytical toxicology of inorganic poisons - Jacob M.B
10. Environmental management of toxic and hazardous chemical - Madhuraj
11. Environmental Biology - J. L. Blish
12. Fundamental Ecology - Odum
13. Environmental Physiology - Philips G.
14. Toxicology mechanism & analytical methods - Stewarts & Strauman
15. Environmental Impact Assessment: G.N.Vankhede Biotech Publishers, Delhi
16. Ecology and Biogeography of India, Mani, M.S. : 1974. Junk. Publ. The Hague.
17. Comparative Vertebrate Endocrinology, Bentley: Cambridge University Press, 1998
18. Fundamentals of Comparative Endocrinology, Chester-Jones et al. Plenum Press,

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Practicals :

24

1. Detection of carbohydrates in a given sample
- Molish test.
2. Estimation of the concentration of reducing sugar
- Benedict's Test.
3. Demonstration of breakdown of starch to monosaccharides
with Hydrochloric acid.
4. Detection of proteins using colour reactions.
 - Biuret test
 - Xanthoproteic test
 - Million's test.
5. Detection of fats using-
 - Solubility Test
 - Emulsification
 - Bromine Water Test
 - Saponification
6. Detection of Iodine from salt.
7. Estimation of Vitamin C in a given sample.
8. Estimation of Iron in a given sample.

References :-

1. Pottern N. and Hotchkiss, J.H. (1996), Food Science; C.B.S. Publishers and distributors, New Delhi.
2. Duck Worth, R.B. (1978), Water Retention to Foods, Academic Press, London.
3. Peckham, G.G. (1969); Foundation of Food Preparation, McMillan Co.
4. Fox B.A. and Cameron, A.G.; Food Science and Chemical Approach; University of London, 1970.
5. Kraner, A. and Twing B.A.; Fundamentals of Quality Control for food industry, The AVI Publishing Co, 1966.
6. C.Gopalan, B.V.Rama Sastri, S.C.Balasubramanian (2004), Nutritive Value of Indian Foods, National Institute of Nutrition, ICMR, Hyderabad.

Subject Code 115EE6**Ecology and Environment**

Theory : 3 Periods/Wk/(Credits 2.4)

Theory Marks : 40

Practical : 4 Periods/Wk/(Credits 1.6)

Th.Int.Ass.Marks: 10

Practical Mks. : 20

Practical Int.Ass.Mks.:10

Total Mks. : 80

Objectives :- To make students aware of Environment and Ecology.**Theory**

25

- Unit-1 :**
- Introduction :- Meaning and definitions of ecology and environment, scope of subject, dimensions of environment, land, air, water, forest, habitat, population.
 - Environmental Education :- Meaning, need, objectives & types. Role of Government, N.G.O's and Educational institution.
- Unit-2 :**
- Human Rights.
 - Land :- As a resource, energy and mineral resources. Land pollution – Sources, smelting, mining, industrial waste, domestic waste, agriculture. Major health hazard. Prevention and control.
 - Water:- Utility of water, water pollution and scarcity. Pollutants, health hazards and their control.
- Unit-3 :**
- Forest :- Utility of forest and forest resources, deforestation and its impact. Forest conservation.
 - Wild Life :- Endanger of species. Wild life preservation programmes, sanctuaries.
- Unit-4 :**
- Energy – Major sources of energy -- Definition and classification.
 - Non-renewable energy sources – Coal Natural Gas, mineral oils, radiological substances.
 - Renewable energy sources – Solar energy, wind power, wave power, flux and reflux, Earth Power, Hydro Electricity, Biomass, Biogas.
 - Uncertainties with Non-renewable energy sources.
 - Alternative Energy sources and Energy conservation measures.
- Unit-5 :**
- Basic Gardening – Types of soil, plant nutrients and use of fertilizers (Biofertilizer, Vermicompost). Basic Garden Plants & their classification. Cultivation of oyster mushroom.

Practicals :

- (1) Study of Garden Equipment.
- (2) Chemical characteristics of soil.
Simple test – Mechanical composition of soil.
- (3) Determination of C-O-D & B-O-D in given sample of water.

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Semester IV.

	Marks Allotted
1) Paper-I:	
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. 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.

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,



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References

1. Stuart Dabbs Halloway(2002)Component Development for the Java platform: Addison-Wesley
2. Michael Zeiler, 2001. Exploring ArcObjects: ESRI

**303- Geoinformatics Applications in
Natural Resources Management**

- Unit 1** : Natural Resource Evaluation: Need – objectives – sources of data – limitations – need for evaluation in development planning
- Unit 2** : Land Evaluation: Objectives – principles – procedures – approaches – land use requirements and land quality parameters – layer creation – matching – classification – case studies.
- Unit 3** : Wastelands: Types – identification – management – eroded lands – types – layer creation – case studies.
- Unit 4** : Water Resources: Surface water: precipitation – space time analysis – overland flow – storage – groundwater: potential – quality – layer creation – overlay analysis – integrated watershed development – case studies.
- Unit 5** : Natural Vegetation: Forests – classification (NRSA) – grasslands – layer creation overlay – management – case studies.

Text Books

1. Fischer, M., H.J. Scholten, and D. Unwin, 1996. Spatial Analytical Perspectives on GIS , Taylor & Francis, London, UK.
2. Michael F. Goodchild, Louis T. Steyaert, Bradley O. Parks, 1996. GIS and Environmental Modeling: Progress and Research Issues. Fort Collins, CO 80525: GISWorld Inc.

References

1. Ripple, William J. (ed.). 1994. The GIS Applications Book: Examples in Natural Resources: A Compendium , American Society for Photogrametry and Remote Sensing, Bethesda, Maryland.
2. Young, Haines, David Green, and Steven Cousins (eds.), 1994. Landscape Ecology and GIS , Taylor & Francis, Bristol, P.A.
3. Fotheringham, S., and P. Rogerson, Ed. 1995. Spatial Analysis and GIS , Taylor & Francis, London, UK.

304- Geostatistics



- Unit 1** : Fundamental concepts -Histogram – univariate and bivariate, estimation of basic statistical parameters, viz., mean, standard deviation, variance, correlation, covariance. Introduction to probability theory. Kinds of probability – classical or apriority probability,
- Unit 2** : Random variables, Distribution functions and expectation: Introduction and summary, Cumulative distribution function, Density function, Expectations and moments.
- Unit 3** : Estimation theory: Introduction and summary, methods of finding estimators, properties of point estimators, unbiased estimation, Sampling and sampling distribution, sample mean, sampling from normal distribution.
- Unit 4** : Testing of hypothesis: Introduction and summary, simple hypothesis testing, composite hypothesis, tests of hypotheses – sampling from normal distribution, chi-square tests, tests of hypotheses and confidence intervals, sequential test of hypotheses.
- Unit 5** : Geostatistics – introduction, The variogram – calculation, interpretation, Variances, covariances, Krige’s volume-variance relationship. Extension variances and estimation variances – simple calculations in one and two dimensions. Optimal estimation – introduction to kriging, Linear, Non-linear and Multivariate Geostatistics

Text Books

1. Noel Cressie, 1991. Statistics for Spatial Data, John Wiley & Sons
2. Isaaks, E. H. and R. M. Srivastava. 1989. An Introduction to Applied Geostatistics. Oxford Univ. Press, New York, Oxford

References

1. Yang, X. S., 2009, Introductory Mathematics for Earth Scientists, Dunedin Academic Press
2. Volk, W, 1980, Applied Statistics for Engineers, Krieger Publishing Company, Huntington, New York
3. Wackernagel, H. 2003. Multivariate geostatistics, Third edition, Springer-Verlag, Berlin


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304- Geostatistics

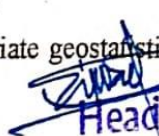

- Unit 1** : Fundamental concepts -Histogram – univariate and bivariate, estimation of basic statistical parameters, viz., mean, standard deviation, variance, correlation, covariance. Introduction to probability theory. Kinds of probability – classical or apriority probability,
- Unit 2** : Random variables, Distribution functions and expectation: Introduction and summary, Cumulative distribution function, Density function, Expectations and moments.
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Text Books

1. Noel Cressie, 1991. Statistics for Spatial Data, John Wiley & Sons
2. Isaaks, E. H. and R. M. Srivastava. 1989. An Introduction to Applied Geostatistics. Oxford Univ. Press, New York, Oxford

References

1. Yang, X. S., 2009, Introductory Mathematics for Earth Scientists, Dunedin Academic Press
2. Volk, W, 1980, Applied Statistics for Engineers, Krieger Publishing Company, Huntington, New York
3. Wackernagel, H. 2003. Multivariate geostatistics, Third edition, Springer-Verlag, Berlin


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Text Books

1. Korte,G. B., (2001) The GIS book: 5th Edition, Onward press, Australia. Cartwright, W., M.P. Peterson, G. Gartner (Eds) Multimedia Cartography, Berlin: Springer.
2. Kraak,M., and A.Brown (2001) Web Cartography: Development and Prospects, London: Taylor and Francies.

References

1. Kraak, M. and F. Ormeling (2003) Cartography: Visualization of Geospatial Data, Delhi: Pearson Education.
2. Ron Lake, David S. Burggraf, Milan Trinic, Laurie Rae, 2004, Geography mark-up language (GML) John Wiley & Sons Ltd.

403- Geoinformatics Applications in Agriculture

- Unit 1** : Crops: Introduction - Agriculture Ecosystems, Yield parameters, spectral properties of crops, identification of crops and acreage estimation, vegetation indices, production forecasting through digital analysis, monitoring and condition assessment - case studies .
- Unit 2** : Soils: introduction - Soil survey methods, soil classification, Land evaluation, Saline, alkaline soils, soil mapping, soil identification and mapping of problem soils, sedimentation and erosion, soil conservation - case studies.
- Unit 3** : Field-scale applications of RS and GIS: soil moisture content assessment, crop phenologic stage identification, crop biomass and yield production estimation, crop disease, weed and insect infestation detection and monitoring, farms mapping, cropping system analysis, agro-ecological zoning.
- Unit 4** : Retrieval of agrometeorological parameters from satellites, floods and droughts assessment and monitoring, water and wind induced soil erosion assessment and monitoring
- Unit 5** : Precision Agriculture: Definition and rationale: agronomy, environment, economics. Tools: variable rate technology (VRT), GPS, GIS, Yield monitoring and mapping, Developing prescriptive maps for VRT management, Applications

Text Books

1. Pierce J.Francis and Clay David, 2007, GIS Applications in Agriculture, Taylor & Francis Group


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2. Steven, M.D. and Clark, J.A., Butterworths, 1990, Application of Remote Sensing in Agriculture, London.

References

1. Ripple, William J. (ed.). 1994. The GIS Applications Book: Examples in Natural Resources: A Compendium , American Society for Photogrammetry and Remote Sensing, Bethesda, Maryland.
2. Young, Haines, David Green, and Steven Cousins (eds.), 1994. Landscape Ecology and GIS , Taylor & Francis, Bristol, P.A.
3. William Ripple, 1986, Geographic Information Systems for Resource \$60.00 Management, ACSM.


404- Geoinformatics Applications in Water Resources Management


Unit 1 : Introduction: Hydrologic cycle, components of hydrologic cycle - processing and parameterization in hydrology; Water resource scenario in India, Hydrological modeling. GIS applications in water resources development and management.

Unit 2 : Spectral properties of water. Floods types; causes and mitigation measures, flooding potential zonation mapping, flood hazard assessment, flood risk analysis using RS and GIS, RS and GIS in Cyclone mapping and mitigation, digital surface modeling and flood hazard simulation.

Unit 3 : Groundwater, hydro geomorphology, Ground water potential assessment, groundwater prospect zones mapping, ground water modeling, ground water information system, planning and management of ground water. Groundwater quality mapping. Ground and surface water interactions

Unit 4 : Irrigation management: Mapping and monitoring of catchments and command areas, land irrigability, soil irrigability mapping, irrigation canal alignment, crop norm violation, agriculture water demand estimation for different crops, tank information system, wet land mapping, siltation mapping, optimum usage planning and management of irrigation water.


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15

- Unit IV : Nitrogen metabolism : Structure of root nodule and organisation of plant nitrogenase system. Formation and assimilation of ammonia; Reduction of nitrate and mechanism of nitrogen fixation.
- Unit V : Sulfur metabolism : Sulphate Activation, physiological importance of sulfate activation, Reduction of active sulfate, Respiratory and photosynthetic sulfur metabolism. Oxidation of inorganic sulfur.

Paper - XVI

(Plant Nutrition and Reproduction)

- Unit I : Concept of plant tissue culture and its application, various techniques of plant tissue culture.
- Unit II : Reproduction in plants. Physiology of flowering senescence and seed formation. Biochemistry of fruit development and ripening. Physiology and biochemistry of seed dormancy and germination. Biochemical changes during germination of seeds.
- Unit III : Phytohormones : Hormonal regulation of growth and development Synthesis, translocation metabolism and biochemical mode of action of auxins, Gibberelins, cytokins, Abscisic acid and Ethylene.
- Unit IV : Water relations : Mineral nutrition in plants and translocation of elements from soil to plants, translocation of elements within the plant. Factors affecting salt absorption and translocation.
- Unit V : Biochemistry of plant diseases and biochemical basis of resistance to plant diseases and defensive mechanisms.

M. Sc. II - Biochemistry

Semester - IV

Practical - VII

(Plant Biochemistry)

- 1) To study water imbibition of live and dead seeds.
- 2) To study kinds of germination
- 3) Assay of amylase and change in sugar content in germinating seeds.
- 4) Estimations of Ascorbic acid in germinating seeds.
- 5) Demonstration of presence of ascorbic acid in vegetable by dye method.
- 6) Isolation of chloroplast from Spinach Leaves.
- 7) Estimation of chlorophyll -a and -b from isolated chloroplast.
- 8) Separation of green plant pigments by column chromatography

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ii) Internal Assessment –	i) One Unit Test	- 06 marks
	ii) One Assignment	- 04 marks
	Total	10 marks

List of Reference Books :

1. Intermediate English Grammar, Raymond Morphy, Publisher- Cambridge.
2. Macmillan Foundation English, R.K. Dwivedi & A. Kumar, Publisher- Macmillan India Limited.
3. Cornerstone Developing Soft skills, Robert Sherfield , Rhoda Montgomery & Patricia Moody, Publisher- Pearson Education.
4. English for Life Skills, Publisher Orient Blackswan

Names of the books & its publisher from where the prescribed prose and poetry pieces are available :

1. Modern Trailblazers, Akshay Dhote, Hitendra Dhote, Orient Blackswan
2. Visionary Gleam, Orient Blackswan
3. Poetry Down the Ages, Orient Blackswan
5. Auroral Musings, Orient Blackswan
6. Rainbow, publisher Orient Blackswan
7. Poetic Symphony, an anthology of sonnets, elegies, odes and ballads, Orient Blackswan
8. Literary Landscapes, an anthology of prose and poetry, Orient Blackswan

Appendix-B

Syllabi prescribed for B.Sc.Part-I (Sem-I & II) to be implemented from the A.S. 2017-18

Semester-I

IS: Geology

**General Geology, Physical Geology, Mineralogy,
Crystallography & Field Geology**

- UNIT-I** : General Geology: definition of geology, branches and scope. Earth in the solar system Origin of the earth: Nebular, Planetsimal and Tidal hypothesis, Age of earth: relative and radioactive methods of age determination – U/Pb, Rb/Sr, K/Ar and Carbon-14 method. constitution of earth: crust, mantle and core. Lithosphere, hydrosphere, atmosphere and biosphere.
- UNIT-II** : **Physical Geology:** Rock weathering – physical weathering, chemical weathering and biological weathering. Geological work done by wind, Rivers, underground water and Glaciers.
- UNIT-III** : **Physical geology:** Volcanism: Structure of volcano, products of volcanoes. Types of volcanic eruption, Causes and distribution of volcanoes. Earthquakes: definition, terminology, Elastic rebound theory – causes, effects, magnitude and intensity; Seismogram and Seismograph. Classification of earthquake; Seismic belts of India. Diastrophism – epirogenic and orogenic movements; Stages in orogenic cycle.
- UNIT-IV** : **Mineralogy:** definition of mineral, rock forming & ore minerals, Physical properties of minerals: Determination of specific gravity by Walker's steelyard & Jolly's spring balance. structures of Silicates ,Physical, chemical, optical properties of Feldspar, Mica, Pyroxene, Amphibole, Garnet and Olivine groups mineral groups. Optical mineralogy – Nature of light, Ordinary and plane polarized light; Reflection and refraction, total internal reflection and critical angle; Double refraction - Nicol prism, becke line Petrological microscope – its parts and functioning. Properties of minerals under ordinary and plane polarized light and between cross Nicol.
- UNIT-V** : **Crystallography** – Elementary idea about crystal structure: crystal, forms, faces, edges, solid angle and interfacial angle and its measurement. Laws of crystallography Crystal symmetry: planes, axes, centre, crystallographic axes. Miller's indices and Weiss Parameters. Classification of crystal in to seven systems with their symmetry elements of normal classes; Cubic, Orthorhombic, Tetragonal, Hexagonal, Monoclinic and Triclinic.
- UNIT-VI** : **Field Geology:** Significance of geological field work, Study of toposheet: numbering, latitude, longitude, scale and conventional signs. Surveying- various types, use and aim- Introduction to surveying equipment's.

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Official Publication of Sant Gadge Baba Amravati University



PART TWO

Thursday, the 27th June, 2019

NOTIFICATION

No. 56/2019

Date: 27/6/2019

- Subject : I) Introduction of new syllabi for the subject Geology at B.Sc. Part-III (Sem. V & VI) level, which to be implemented from the academic session 2019-20.
II) Introduction of new syllabi for B.Sc. Part-III (Semester-V & VI) Computer Science / Computer Application/ Information Technology/Computer Application(Vocational) which to be implemented from the academic session 2019-20.

I) It is notified for general information of all concerned that the authorities of the University has introduced new syllabi for the subject Geology at B.Sc. Part-III (Sem. V & VI) level, which to be implemented from the academic session 2019-20. Hence, the page Nos. 42 to 46, appearing in prospectus No. 2016123 be substituted respectively by the "APPENDIX-A", which is appended with this notification.

II) It is notified for general information of all concerned that the authorities of the University has introduced new syllabi for B.Sc. Part-III (Semester-V & VI) Computer Science / Computer Application/ Information Technology/Computer Application(Vocational), which to be implemented from the academic session 2019-20. Hence, the page Nos. 88 to 97, appearing in prospectus No. 2016123 be substituted respectively by the "APPENDIX-B", which is appended with this notification.

Sd/-
(Dr. T.R.Deshmukh)
Registrar,

Sant Gadge Baba Amravati University

APPENDIX-A

SYLLABI PRESCRIBED FOR B.SC. FINAL TO BE IMPLEMENTED FROM THE A.S. 2019-20

SEMESTER-V

5S : GEOLOGY

ECONOMIC GEOLOGY AND MINERAL EXPLORATION

- UNIT I : Economic geology: Introduction, purpose and scope; Metallic and non metallic minerals, ore, ore deposits, gangue minerals, tenor and grade of the ore, Processes of ore formation, types of deposits, distribution of mineral deposits in space and time, metallogenic epochs and provinces, geological thermometers, Classifications of mineral deposits, magmatic concentration deposits, contact metamorphic deposits.
- UNIT II : Sedimentary deposits, hydrothermal deposits (cavity filling and replacement), evaporation deposits, colloidal deposits, residual and mechanical concentration deposits, oxidation and supergene sulphide enrichment deposits, metamorphic and metamorphosed deposits.
- UNIT III : Mineralogy, properties, uses, origin, mode of occurrence, types of deposits, geological and geographical distribution in India of the metallic mineral deposits like gold, iron, copper, lead, zinc, manganese, aluminium and chromite.
- UNIT IV : Mineralogy, properties, uses, origin, mode of occurrence, types of deposits, geological and geographical distribution in India of non-metallic deposits like asbestos, mica, gypsum, barite, magnesite and limestone. Properties, classifications, origin, uses, geological and geographical distribution of coal deposits of India. Origin and migration of oil, oil trap and its types, geological and geographical distribution of Petroleum deposits of India.
- UNIT V : Mineral exploration and prospecting, definition and scope, surface methods of exploration and their applications, sub surface methods of exploration like, gravity, magnetic, electrical, seismic, radiometric, geochemical and geobotanical methods and their applications in Geology.
- UNIT VI : Guides and controls of ore localization, sampling-Its types, calculations and computation of grade and ore reserves, geochemical cycle and dispersal; Strategic, critical and essential minerals.

Practicals

- A. Identification of ore minerals by Physical properties (40 to 60 specimens)
B. Identification of industrial Minerals by physical properties (20 to 30 specimens)
C. Exercises showing major metallic and non metallic minerals on India map (6 to 10 maps)
D. Exercises on calculations on grade and ore reserves (6 to 10 problems)
E. Laboratory exercises in solving exploration problems (8 to 10 problems)

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 120

Principal

Shri Shivaji College, of Arts
Commerce & Science, AKOLA.
A Grade CGRA 3.24 by NAAC

Head
Department of Geology
Shri Shivaji College Of Arts,
Commerce & Science, Akola.

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 121

Practical Examination

Practical Examination will be of four hours duration and carries 50 Marks. The distribution of Marks will be as follows,

I. Identification of ore minerals (5 nos.)	10 Marks
II. Identification of industrial minerals (5 nos.)	10 Marks
III. Exercises of metallic and non-metallic deposits of India on maps (2 maps)	4 Marks
IV. Laboratory exercises in solving exploration problems (2 problems)	8 Marks
V. Exercises on calculations and grades of ore reserves (2 problems)	8 Marks
VI. Practical record	5 marks
VII. Viva – voce	5 marks

Total- 50 Marks

Books Recommended :

1. McKinstrey, H.F. (1972) Mining Geology. Prentice – Hall Inc.
2. Arogyaswamy, R.N.P. (1995) Courses in Mining Geology. Oxford and IBH publishing Co., New Delhi.
3. Bagechi, T. C., Sen Gupta, D. K. and Rao, S.V.L.N.(1979) Elements of Prospecting.
4. Jensen, M.L. and Bateman, A.M.(1981) Economic Mineral Deposits. John Wiley and Sons, New York.
5. Deb, S. (1980) Industrial Minerals and Rocks of India. Allied Publishers, New Delhi.
6. Howel, B.F. (1959) Introduction to Geophysical prospecting. McGraw Hill.
7. Lowrie, W. (1997) Fundamentals of Geophysics. Cambridge University Press.
8. Sen, A.K. and Guha, P.K. (1993) a handbook of Economic Geology. Dynamic printers, Kolkata.
9. Banerjee, D.K. (1992) Mineral resources of India. The World Press Pvt. Ltd., Kolkata.
10. Sharma, N.L. and Ram, K.S.V. (1964) Introduction to India's Economic minerals, Dhanbad Publishers.
11. Dobrin, M.B. (1952) Introduction to Geophysical Prospecting. McGraw Hill.
12. Park, C. F. and MacDiamid, R.A Ore Deposits. Freeman and company, Saint Francisco.
13. Sinha and Sharma . Mineral Economics.
14. Krishnaswamy, S. (1979) India's Mineral Resources. Oxford IBH, Pub. Co. New Delhi.
15. Prasad Umeshwar. Economic deposits of India. CBS Publishers, New Delhi.

SEMESTER – VI

6S : GEOLOGY

HYDROGEOLOGY, REMOTE SENSING, ENGINEERING GEOLOGY AND GEOLOGICAL SKILL

UNIT I : Concept of hydrology, hydrogeology and ground water, Hydrologic cycle and its components, Occurrence and distribution of ground water, Water Table; Aquifer and its types – confined, unconfined and semi-confined, Properties of aquifer- porosity, permeability, specific yield, safe yields, storage coefficient, storativity and transmissivity.

UNIT II : Recharge and discharge, Cone of depression, Influent and affluent seepages, Springs and its types. Ground water Provinces of India. Geophysical investigations for groundwater exploration, Groundwater and water quality services, Hydrochemical parameters of ground water (Acidity, Alkalinity, Hardness, pH, Conductivity). Recharge through wells and its types. Rain water harvesting,

UNIT III : Aerial photographs and its types, Satellite imageries. Methods of studying aerial photographs in the form of stereo-pairs and mosaic. Pocket and mirror stereoscopes, Overlap and sidelap, Drift and crab. Photogeology and elements of photorecognition- tone, texture, shape, size, pattern; Scale of photograph and vertical exaggeration. Guidelines for lithological, structural and geomorphic interpretations. Applications of photogeology. "Introduction and scope of photogeology".

UNIT IV : Concept of remote sensing, types of remote sensing systems (active and passive), Elements of passive remote sensing system (data acquisition and data analysis), applications of remote sensing in studying the natural resources like minerals, ground water, soil and forests. Satellites and Satellite data - introduction and brief history, types of satellites, information obtained with reference to latest IRS & LANDSAT satellites. Sensors – types and their applications.

UNIT V : Engineering Geology – introduction, scope and significance; engineering properties of rocks - specific gravity, porosity, crushing strength, compressive strength, and tensile strength. Tunnels - terminology, geological conditions for tunnel sites, tunnels in folded rocks and bedded rocks. Dams – terminology, geological conditions for the selection of dam, Types of dams - Masonary dams (Gravity buttress and Arch types), earthen dams. Landslides - causes, types and prevention of landslides.

UNIT VI : Geological skill development - Role of geological expertise in local natural resources investigation, exploration and mining, beneficiation of minerals; Rocks and minerals thin section making, Civil engineering services, Environmental services, . Soil quality testing and conservation services, Laboratory and Research Technician. Geoheritage.

PRACTICALS: SEMESTER – VI

1. Plotting of ground water provinces on outline map of India.
2. Problems on determination of aquifer parameters, ground water table maps.
3. Interpretation of aerial photographs and satellite imageries.
4. Field work : Field work is an Integral part of Geology Syllabus. Every student should attend field work for a short duration and submit field diary, geological specimen collected and a report.

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Head

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Commerce & Science, Akola.

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 121

Practical Examination

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IV. Laboratory exercises in solving exploration problems (2 problems)	8 Marks
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VI. Practical record	5 marks
VII. Viva – voce	5 marks

Total- 50 Marks

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1. McKinstrey, H.E. (1972) Mining Geology. Prentice – Hall Inc.
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**SEMESTER – VI
6S : GEOLOGY**

HYDROGEOLOGY, REMOTE SENSING, ENGINEERING GEOLOGY AND GEOLOGICAL SKILL

UNIT I : Concept of hydrology, hydrogeology and ground water, Hydrologic cycle and its components, Occurrence and distribution of ground water, Water Table; Aquifer and its types – confined, unconfined and semi-confined, Properties of aquifer- porosity, permeability, specific yield, safe yields, storage coefficient, storativity and transmissivity.

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UNIT III : Aerial photographs and its types, Satellite imageries. Methods of studying aerial photographs in the form of stereo-pairs and mosaic. Pocket and mirror stereoscopes, Overlap and sidelap, Drift and crab. Photogeology and elements of photorecognition- tone, texture, shape, size, pattern; Scale of photograph and vertical exaggeration. Guidelines for lithological, structural and geomorphic interpretations. Applications of photogeology. "Introduction and scope of photogeology".

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UNIT VI : Geological skill development - Role of geological expertise in local natural resources investigation, exploration and mining, beneficiation of minerals; Rocks and minerals thin section making, Civil engineering services, Environmental services, . Soil quality testing and conservation services, Laboratory and Research Technician. Geoheritage.

PRACTICALS: SEMESTER – VI

1. Plotting of ground water provinces on outline map of India.
2. Problems on determination of aquifer parameters, ground water table maps.
3. Interpretation of aerial photographs and satellite imageries.
4. Field work : Field work is an Integral part of Geology Syllabus. Every student should attend field work for a short duration and submit field diary, geological specimen collected and a report.

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Head

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Commerce & Science, Akola.

Cloning vectors:- Plasmids, bacteriophages, cosmids and phagemids.
Southern blotting and colony hybridization.
PCR.
Gene library.

Unit-IV : Microbial Biotechnology I- Medicine:

Interferon.
Insulin.
Recombinant vaccines.
Dextran.
Amino acids.
Pharmaceutically important recombinant products –
(Growth hormone, erythropoietin)

Unit-V : Microbial Biotechnology II- Industry:

Batch and continuous fermentation.
Types of bioreactors(CSTR, Fluidized bed reactor, UASB).
Alcohol fermentation.
Penicillin fermentation.
Gluconic acid fermentation.
Citric acid fermentation.
Amylase fermentation.

Unit-VI : Microbial Biotechnology III- Environment:

Energy from Biomass (Biogas and Biodiesel)
Microbial Pesticides and Biofertilizers.
Microbial Bioremediation.
Bioleaching.
Biodegradation of xenobiotic compounds.
Water Treatment – Aerobic and Anaerobic

M. K. Kulkarni
Co-ordinator
EPTT. OF BIO-TECHNOLOGY
Shri Shivaji College of
Arts, Commerce & Science
AKOLA

Practicals.

- 1) Agarose gel electrophoresis of nucleic acid.
- 2) Isolation of Genomic DNA.
- 3) To check purity of DNA
- 4) Plasmid isolation – Mini preparation.
- 5) DNA ligation
- 6) Competant cell preparation
- 7) Transformation.
- 8) Restriction enzyme and restriction digestion of plasmid DNA.

M. K. Kulkarni
Principal

Shri Shivaji College, of Arts
Commerce & Science, AKOLA.
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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -265

Drat Syllabus for B.A. Part-I
Semester-I (Psychology)
Paper-I
Fundamentals of Psychology

Objective : To Provide understanding of basic Psychological Processes and its Application in Everyday Life.

Unit-I Introduction and Methods of Psychology :

A) Definition and goals of Psychology, Schools of Psychology, Psychoanalysis, Behaviorism (1940), Humanistic, Cognitive, History of Psychology. 7pg, 3pg, 13pg, 17pg, 19pg, 20pg, 21pg, 23pg, 24pg, 25pg, 26pg, 27pg, 28pg, 29pg, 30pg, 31pg, 32pg, 33pg, 34pg, 35pg, 36pg, 37pg, 38pg, 39pg, 40pg, 41pg, 42pg, 43pg, 44pg, 45pg, 46pg, 47pg, 48pg, 49pg, 50pg, 51pg, 52pg, 53pg, 54pg, 55pg, 56pg, 57pg, 58pg, 59pg, 60pg, 61pg, 62pg, 63pg, 64pg, 65pg, 66pg, 67pg, 68pg, 69pg, 70pg, 71pg, 72pg, 73pg, 74pg, 75pg, 76pg, 77pg, 78pg, 79pg, 80pg, 81pg, 82pg, 83pg, 84pg, 85pg, 86pg, 87pg, 88pg, 89pg, 90pg, 91pg, 92pg, 93pg, 94pg, 95pg, 96pg, 97pg, 98pg, 99pg, 100pg, 101pg, 102pg, 103pg, 104pg, 105pg, 106pg, 107pg, 108pg, 109pg, 110pg, 111pg, 112pg, 113pg, 114pg, 115pg, 116pg, 117pg, 118pg, 119pg, 120pg, 121pg, 122pg, 123pg, 124pg, 125pg, 126pg, 127pg, 128pg, 129pg, 130pg, 131pg, 132pg, 133pg, 134pg, 135pg, 136pg, 137pg, 138pg, 139pg, 140pg, 141pg, 142pg, 143pg, 144pg, 145pg, 146pg, 147pg, 148pg, 149pg, 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865pg, 866pg, 867pg, 868pg, 869pg, 870pg, 871pg, 872pg, 873pg, 874pg, 875pg, 876pg, 877pg, 878pg, 879pg, 880pg, 881pg, 882pg, 883pg, 884pg, 885pg, 886pg, 887pg, 888pg, 889pg, 890pg, 891pg, 892pg, 893pg, 894pg, 895pg, 896pg, 897pg, 898pg, 899pg, 900pg, 901pg, 902pg, 903pg, 904pg, 905pg, 906pg, 907pg, 908pg, 909pg, 910pg, 911pg, 912pg, 913pg, 914pg, 915pg, 916pg, 917pg, 918pg, 919pg, 920pg, 921pg, 922pg, 923pg, 924pg, 925pg, 926pg, 927pg, 928pg, 929pg, 930pg, 931pg, 932pg, 933pg, 934pg, 935pg, 936pg, 937pg, 938pg, 939pg, 940pg, 941pg, 942pg, 943pg, 944pg, 945pg, 946pg, 947pg, 948pg, 949pg, 950pg, 951pg, 952pg, 953pg, 954pg, 955pg, 956pg, 957pg, 958pg, 959pg, 960pg, 961pg, 962pg, 963pg, 964pg, 965pg, 966pg, 967pg, 968pg, 969pg, 970pg, 971pg, 972pg, 973pg, 974pg, 975pg, 976pg, 977pg, 978pg, 979pg, 980pg, 981pg, 982pg, 983pg, 984pg, 985pg, 986pg, 987pg, 988pg, 989pg, 990pg, 991pg, 992pg, 993pg, 994pg, 995pg, 996pg, 997pg, 998pg, 999pg, 1000pg

B) Biological bases of Behavior : 23pg, 19pg, 20pg, 21pg

Function and structure of Neuron, Spinal Cord and Brain
Autonomic Nervous System

Unit-II Cognitive Processes :

A) Attention: Definition, Types, Determinants of Attention, Span of Attention, Fluctuation of attention, Division of attention and distraction of attention.
B) Perception: Definitions, laws of perceptual organization, determinants of perception, figure and ground, Illusion.

Unit-III Learning :

A) Learning: Definition, types of learning, methods of learning- imitation, classical and instrumental conditioning, trial and error method, laws of learning, insight learning, latent learning and avoidance learning. Transfer of learning.
B) Problem solving: Nature, characteristics, problem solving strategies, impediments to problem solving.

Unit-IV Memory and Forgetting :

A) Memory- Definition, stages of memory; sensory memory, short term and long term memory. Methods to measure retention, techniques to improve memory.
B) Forgetting- Definition, forgetting curve, theories of forgetting: interference, decay, reconstruction and amnesia.

Practicals (Any Five)

- 1) Substitution Learning
- 2) Habit Interference
- 3) Muller-Lyer Illusion
- 4) Span of Attention
- 5) Division of Attention
- 6) Memory Span
- 7) Mental Set

Semester-II (B.A.Part-I)
Paper- II
Fundamentals of Psychology

Objective : To provide understanding of basic Psychological Processes and its Application in Everyday Life.

Unit-I Motivation :

A) Motivation: Definition, motivational cycle, types of motives: physiological, psychological, social motives. Hierarchy of motives.
B) Conflict of motives: nature and types of conflict, direct and indirect ways of resolving conflict.

Unit-II Emotion :

A) Emotion: Definition, difference between feeling and emotions, physiological changes in emotion, facial feedback hypothesis, role of limbic system.
B) Theories of emotion: James-Lange, Cannon-Bard, Schacter-Singer theory.

Unit-III Intelligence :

A) Intelligence: Definition, types, the concept and classification of IQ, measurement and types of intelligence tests. Creativity: nature, characteristics and uses. Creativity and intelligence.
B) Theories of intelligence: Binet, Spearman, Thurston, Gardner, Guilford and Sternberg.

- 1) Verbal comprehension
- 2) Numerical ability
- 3) Space ability
- 4) Word fluency
- 5) Reasoning



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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 142

D) Communication Skills : UNIT IV (16 Marks)
i) Interpersonal Conversation = 8 Marks
ii) Casual Conversation = 08 Marks

E) Multiple Choice Questions (MCQ) UNIT V (16 Marks)
Based on Unit I & II : The students will have to answer SIXTEEN out of SIXTEEN MCQ's = 16 Marks

F) Internal Assessment
I) Viva- Voce = 20 Marks
a) Personal Interview = 10 Marks
b) Seminar - Presentation = 10 Marks

Note:
1. The teachers are expected to impart formal training in Grammar Composition, Making Introduction, Greeting People, Talking about Family, Describing People, Places & Animals, Expressing Feelings, Inviting, Suggesting, Accepting & Refusing, Reading & Oral Skills in the tutorial classes.
2. Internal examiner shall interview an examinee to test his or her spoken skills.
3. There shall be separate passing for theory & Internal Assessment.

SYLLABUS
PRESCRIBED FOR
B.A PART II EXAMINATION
SEMESTER III
ENGLISH LITERATURE
UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.
Chapters Prescribed :
Chapter II - The Novel
Chapter III - The Short Story
Chapter IV - Biography and Autobiography

UNIT II

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan
POETRY :

The following poems are prescribed
1. Palanquin Bearers - Sarojini Naidu
2. Between These Lines - S Joseph
3. The Epileptic - Keki N Daruwalla
4. A Walk by Moonlight - Henry Derozio
5. Endless Time - Rabindranath Tagore

UNIT III


Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan


A) Introduction to Literary Terms - I
Following Literary Terms are prescribed

1. Point of View
2. Anticlimax
3. Climax
4. Binary Opposition
5. Euphemism
6. Subaltern
7. Oxymoron
8. Picaresque Narrative
9. Epistolary Novel
10. Bildungsroman
11. Ekphrastic Poem
12. Stream of Consciousness Narrative
13. Metafiction
14. Objective Correlative
15. Platonic Love
16. Anti-Hero

B) Introduction to Literary Theories - I
Following Literary Theories are prescribed

1. Archetypal Criticism
2. Russian Formalism
3. Structuralism
4. Narratology


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tion-Parts of Speech, Use of articles and Prepositions, Tenses, Transformation of Sentences05 marks

Q. 5 : There shall be one question either on Note-making or on Reporting (Note: The paper setter shall have the discretion)..... 05 marks

Q. 6 : There shall be one question on Paragraph Writing on topics of current relevance. Students will have to write a paragraph of about 200 words out of four given topics05 marks

Total 40 marks

२. मराठी अनिवार्य

विज्ञान स्नातक भाग-१, सत्र-१ व सत्र-२

अभ्यासक्रमासाठी सूक्ष्म वाचनाकरिता पाठ्यपुस्तक "शलाका" ऑरिएण्ट ब्लॅकस्वॉन प्रा.लि.मुंबई ४००००९ यांनी प्रकाशित केले आहे.

उपरोक्त "शलाका" पाठ्यपुस्तक विज्ञान शाखा भाषा अभ्यास मंडळाने संपादित केलेले असेल व त्यात खालील घटकांचा व पाठ्यांशांचा समावेश राहिल.

सत्र-१

घटक अ (गद्य)

- | | | |
|---------------------------------|---|-------------------------|
| १) पुरुष सूक्त | - | लक्ष्मण लोंढे |
| २) विज्ञान कथेतील सत्य आणि कथित | - | चंद्रकांत पाटील |
| ३) येशूची लोकशिक्षणाची शैली | - | फ्रान्सीस दिब्रिटो |
| ४) लोकभ्रम | - | विष्णूशास्त्री चिपळूणकर |
| ५) महात्मा ज्योतिराव फुले | - | भा.ल.भोळे |
| ६) गाडगे बाबांचे अखेरचे किर्तन | - | गाडगे बाबा |

घटक ब (पद्य)


- | | | |
|-----------------------|---|------------|
| १) पसायदान | - | ज्ञानेश्वर |
| २) डोईचा पदर | - | जनाबाई |
| ३) टिळा टोपी उंच दावी | - | तुकाराम |
| ४) जैसा वृक्ष नेणे | - | नामदेव |

घटक क (व्यावहारिक मराठी)

कार्यालयीन पत्रव्यवहार -

सत्र-२

घटक अ (गद्य)


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ans- ting cur- 200	१)	स्टीफन हॉकिंग	- निवास पाटील
	२)	मला शब्द द्या	- वि.वा.शिरवाडकर
	३)	आंबेडकरांचे ग्रंथप्रेम	- शां.शं.रेगे
	४)	विज्ञान, तंत्रज्ञान आणि मराठी भाषा	- जयंत नारळीकर
	५)	चिंतन	- ए.पी.जे.अब्दूल कलाम
	✓६)	जगायचं कशासाठी	- डॉ.निर्मलकुमार फडकुले
घटक ब (पद्य)			
	१)	विद्यार्थ्यांप्रत	- केशवसूत
	२)	लपे कर्माची रेखा	- बहिणाबाई चौधरी
	३)	मेंढर	- विठ्ठल वाघ
	४)	संग्राम	- यशवंत मनोहर
घटक क (व्यावहारिक मराठी)			
प्रसारमाध्यमांसाठी लेखन			
मराठी अनिवार्य			
विज्ञान स्नातक भाग-१, सत्र-१ व सत्र-२			
वेळ ३ तास		सत्र-१	गुण - ४०
या विषयाची एक प्रश्नपत्रिका राहिल.			
सूक्ष्म वाचनाकरिता पाठ्यपुस्तक - "शलाका"			
या पाठ्यपुस्तकातील घटक अ (पाठ क्र.१ ते ६) व घटक ब (कविता क्र.१ ते ४) व घटक क (व्यावहारिक मराठी) यावर प्रश्न व गुणविभागणी खालील प्रमाणे राहिल.			
प्रश्न-१	घटक अ	- दिर्घोत्तरी प्रश्न (कोणताही एक)	गुण - १०
प्रश्न-२	घटक अ	- लघुत्तरी प्रश्न (कोणतेही दोन)	गुण - (५+५=१०)
प्रश्न-३	घटक ब	- लघुत्तरी प्रश्न (कोणतेही दोन)	गुण - (५+५=१०)
प्रश्न-४	घटक क	- व्यावहारिक मराठी- कार्यालयीन पत्रव्यवहार	गुण - (५+५=१०)
पाच गुणांचे दोन प्रश्न राहिल.			
विज्ञान स्नातक भाग-१, सत्र-१ व सत्र-२			
वेळ ३ तास		सत्र-२	गुण - ४०
या विषयाची एक प्रश्नपत्रिका राहिल.			
सूक्ष्म वाचनाकरिता पाठ्यपुस्तक - "शलाका"			
या पाठ्यपुस्तकातील घटक अ (पाठ क्र.७ ते १२) व घटक ब (कविता क्र.५ ते ८) व घटक क (व्यावहारिक मराठी) यावर प्रश्न व गुणविभागणी खालील प्रमाणे राहिल.			
प्रश्न-१	घटक अ	- दिर्घोत्तरी प्रश्न (कोणताही एक)	गुण - १०
प्रश्न-२	घटक अ	- लघुत्तरी प्रश्न (कोणतेही दोन)	गुण - (५+५=१०)
प्रश्न-३	घटक ब	- लघुत्तरी प्रश्न (कोणतेही दोन)	गुण - (५+५=१०)

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Appendix-B

वाङ्मय पारंगत (मराठी) / एम. ए. (मराठी)
अभ्यासक्रम २०१७-२०१८
एम. ए. (मराठी) : सत्र पहिले

आवश्यक पत्रिका	पत्रिका १ :	मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी (आरंभ ते १८१८)
आवश्यक पत्रिका	पत्रिका २ :	साहित्यविचार
ऐच्छिक पत्रिका	पत्रिका ३ :	अ) साहित्यकृतीचा अभ्यास किंवा ब) संतसाहित्य किंवा क) लोकसाहित्य.
ऐच्छिक पत्रिका	पत्रिका ४ :	अ) विशेष वाङ्मयप्रकार कादंबरी किंवा ब) विशेष वाङ्मयप्रकार कथा किंवा क) विशेष वाङ्मयप्रकार ललित गद्य

* * * * *

एम. ए. (मराठी) : सत्र दुसरे

आवश्यक पत्रिका	पत्रिका १ :	मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी (१८१८ ते १९६०)
आवश्यक पत्रिका	पत्रिका २ :	समीक्षाविचार
ऐच्छिक पत्रिका	पत्रिका ३ :	अ) साहित्यकृतीचा अभ्यास किंवा ब) महानुभाव साहित्य किंवा क) लोकसाहित्य
ऐच्छिक पत्रिका	पत्रिका ४ :	अ) विशेष वाङ्मयप्रकार कादंबरी किंवा ब) विशेष वाङ्मयप्रकार नाटक किंवा क) विशेष वाङ्मयप्रकार चरित्र-आत्मचरित्र-आत्मकथन

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एम. ए. (मराठी) भाग १ : सत्र पहिले

आवश्यक पत्रिका घटक :	पत्रिका १ :	मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी (आरंभ ते १८१८)
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१. साहित्य आणि समाज : अण्गोन्धरसंबंध
२. यादवकालीन सामाजिक, सांस्कृतिक, धार्मिक व राजकीय स्थितीच्या पार्श्वभूमीवर महानुभाव संप्रदायाचा उदगम, विकास व तत्त्वज्ञान. महानुभाव संप्रदाय वंदित होण्याची कारणे.
३. वारकरी संप्रदायाच्या उदयकालाची महाराष्ट्रातील सामाजिक, धार्मिक आणि सांस्कृतिक स्थिती. वारकरी संप्रदायाच्या उदयाची कारणे आणि नामदेवांची मांदियाळी व ज्ञानेश्वरांचे सामाजिक कार्य. त्याला पूरक साहित्यनिर्मिती.
४. ज्ञानाचा एका : नाथकालीन समाज आणि संत एकनाथांची साहित्यनिर्मिती.
५. शिवकाल : संत तुकाराम आणि संत रामदास यांचे कार्य
६. शिवकाल व पेशवेकालीन सामाजिक व राजकीय स्थिती ग्राहिरी वाङ्मयाची प्रगणना व स्वरूप.
७. उत्तर पेशवाई : लावणी वाङ्मयाचा हासकाल

संदर्भग्रंथ :

- १) मराठी संतांचे सामाजिक कार्य, डॉ. विष्णू भिरवाडी कोलते (अनुवाद मुमती रमाकांत जोशी), लोकवाङ्मय गृह, मुंबई, २०१४.
- २) संत वाङ्मयाची सामाजिक फलश्रुती, गं. व. सरदार
- ३) महाराष्ट्रीय सन्त मंडळाचे ऐतिहासिक संदर्भग्रंथ

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- १) गृहपाठ - १० गुण
२) मौखिक परीक्षा - १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा - ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन - २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही साहित्यिक, सामाजिक, सांस्कृतिक, समाज यास्तव वा समसंवावर आधारित असावा. यामध्ये परिसरातील साहित्यिकाची मुलाखत घेऊन त्याचे शब्दांकन करणे, परिसरातील लोककलांची माहिती व विशेष नोंदवणे, परिसरातील म्हणी-वाक्यप्रचार यांचे संकलन करून विशेष नोंदवणे, लोकगीते, लोककथा यांचे संकलन करणे. ग्रामीण साहित्य, दलित साहित्य, स्त्रीवादी साहित्य इ. वर टिपण तयार करणे. परिसरातील वाङ्मयीन चळवळी, परिसराचा सांस्कृतिक वारसा यावर टिपण तयार करणे. परिसराच्या भाषेचे विशेष नोंदवणे. वाङ्मयीन व्यक्तिमत्त्वांचे चित्रण करणे. सांस्कृतिक कार्यक्रमांचे वृत्तांकन करणे. हस्तलिखिताचे मुद्रितशोधन करणे. लोकसंस्कृतीची माहिती नोंदवणे इ. यादीचा समावेश असेल.
- २) गृहपाठावर आधारित मौखिक परीक्षा घेण्यात यावी.

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

वी.ए.भाग-१ मराठी वाङ्मय
सत्र २ रे

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले ग्रंथ -

- १) नाटक - आई रिटायर होतेय लेखक अशोक पाटोळे, पॉप्युलर प्रकाशन, मुंबई
२) कविता - अर्वाचीन मराठी कविता (संपादित) या ग्रंथातील क्रमांक आठ ते चौदा हे कवी दुसऱ्या सत्रासाठी असतील.

- अ) नाटक - आई रिटायर होतेय ४८ गुण
ब) कविता - अर्वाचीन मराठी कविता (संपादित) ३२ गुण
८० गुण

प्रश्ननिहाय गुण विभागणी

प्रश्न - १ संदर्भासह स्पष्टीकरण - १६ गुण

- नाटकावर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.

- अर्वाचीन मराठी कवितावर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.

प्रश्न - २ 'आई रिटायर होतेय' या नाटकावर एक दीर्घोत्तरी प्रश्न विचारला जाईल. - १६ गुण

प्रश्न - ३ 'आई रिटायर होतेय' या नाटकावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न विचारले जातील. - १६ गुण

प्रश्न - ४ अर्वाचीन मराठी कवितावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न विचारले जातील. - १६ गुण

प्रश्न - ५ वस्तुनिष्ठ बहुपर्यायी प्रश्न - १६ गुण

(उपरोक्त नाटक व कविता यावर आधारित प्रत्येकी एक गुण असे १६ वस्तुनिष्ठ बहुपर्यायी प्रश्न असतील.)

अंतर्गत मूल्यमापन :

एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल त्याची गुण विभागणी खालीलप्रमाणे

- १) गृहपाठ - १० गुण
२) मौखिक परीक्षा - १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा - ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन - २० पैकी ०८ गुण आवश्यक

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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO – 155

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

बी.ए.भाग-२ मराठी वाङ्मय
सत्र ४ थे

॥ गुण विभागणी ॥

एकूण गुण – १००
लेखी गुण – ८०
अंतर्गत मूल्यमापन – २०
वेळ – ३ तास

अभ्यासक्रमासाठी नेमलेले ग्रंथ -

- १) आत्मकथन -आठवणीचे पक्षी - लेखक प्र.ई.सोनकांबळे, चेतना प्रकाशन.
- २) लीळाचरित्रातील निवडक कथा - संपादक - राजेंद्र राऊत

अ) आत्मकथन - आठवणीचे पक्षी	४८ गुण
ब) लीळाचरित्रातील निवडक कथा	३२ गुण
	८० गुण

प्रश्ननिहाय गुण विभागणी

प्रश्न – १ संदर्भासह स्पष्टीकरण	- १६ गुण
• आठवणीचे पक्षी यावर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.	
• लीळाचरित्रातील निवडक कथा यावर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.	
प्रश्न – २ आठवणीचे पक्षी यावर एक दीर्घांतरी प्रश्न विचारला जाईल.	- १६ गुण
प्रश्न – ३ आठवणीचे पक्षी यावर प्रत्येकी आठ गुणांचे दोन लघुतरी प्रश्न विचारले जातील.	- १६ गुण
प्रश्न – ४ लीळाचरित्रातील निवडक कथा यावर प्रत्येकी आठ गुणांचे दोन लघुतरी प्रश्न विचारले जातील.	- १६ गुण
प्रश्न – ५ वस्तुनिष्ठ बहुपर्यायी प्रश्न	- १६ गुण
(उपरोक्त आठवणीचे पक्षी व लीळाचरित्रातील निवडक कथा यावर आधारित प्रत्येकी एक गुण असे १६ वस्तुनिष्ठ बहुपर्यायी प्रश्न असतील.)	

अंतर्गत मूल्यमापन :

एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल त्याची गुण विभागणी खालीलप्रमाणे

१) गृहपाठ	- १० गुण
२) मौखिक परीक्षा	- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

• लेखी परीक्षा	- ८० पैकी ३२ गुण आवश्यक
• अंतर्गत मूल्यमापन	- २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही साहित्यिक, सामाजिक, सांस्कृतिक, समाज वास्तव वा समस्यांवर आधारित असावा. यामध्ये परिसरातील साहित्यिकाची मुलाखत घेऊन त्याचे शब्दांकन करणे, परिसरातील लोककलांची माहिती व विशेष नोंदवणे, परिसरातील म्हणी-वाक्यप्रचार यांचे संकलन करून विशेष नोंदवणे, लोकगीते, लोककथा यांचे संकलन करणे. ग्रामीण साहित्य, दलित साहित्य, स्त्रीवादी साहित्य इ. वर टिपण तयार करणे. परिसरातील वाङ्मयीन चळवळी, परिसराचा सांस्कृतिक वारसा यावर टिपण तयार करणे. परिसराच्या भाषेचे विशेष नोंदवणे. वाङ्मयीन व्यक्तिमत्त्वांचे चित्रण करणे. सांस्कृतिक कार्यक्रमांचे घुतांकन करणे. हस्तलिखिताचे मुद्रितशोधन करणे. लोकसांस्कृतिकीची माहिती नोंदवणे इ. बाबींचा समावेश असेल.
- २) गृहपाठावर आधारित मौखिक परीक्षा घेण्यात यावी.

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SANT GADGE BABA AMRAYATI UNIVERSITY GAZETTE - 2017 - PART TWO -90

अभ्यासक्रमासाठी येवतेले पाठ्यपुस्तक	--	'मृदंग' भाग १ (विभाग 'अ', 'ब', आणि 'क' साठी)
विभाग - अ	वैचारिक	-- १६ गुण
विभाग - ब	ललित	-- १६ गुण
विभाग - क	कविता	-- १६ गुण
विभाग - ड	उपयोजित मराठी	-- १६ गुण
	वैचारिक, ललित व कविता या	-- १६ गुण
	विभागावर वस्तुनिष्ठ चतुष्पदी प्रश्न	

विभाग 'अ' व 'ब' यावर प्रत्येकी शैली गुणांचा एक मधील प्रश्न -- ३२ गुण
 विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन चतुष्पदी प्रश्न -- १६ गुण
 विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन चतुष्पदी प्रश्न -- १६ गुण
 वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर -- १६ गुण
 आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ चतुष्पदी प्रश्न
 विचारले जातील. प्रत्येक प्रश्नास एक गुण याद्वारे हा प्रश्न १६ गुणांचा असेल.

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादन - केवळगी मोंडक व इतर, पद्मगंगा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण ३ व 'कामालगीन पत्रव्यवहार' व प्रकरण ४ चे 'स्व-परिचयपत्र व नोकरीसाठी अर्जलेखन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक चतुष्पदी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यापेक्षा : एकूण २० गुणांची अंतर्गत मूल्यापेक्षा परीक्षा राहिल.

- गुण विभागणी :
- १) मूल्यांकन -- १० गुण
- २) शैक्षिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यापेक्षा या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असातील.

- लेखी परीक्षा -- ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यापेक्षा -- २० पैकी ०८ गुण आवश्यक

- सूचना : १) मूल्यांकन हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्मयीन कौशल्य विकसित करण्याचा विषयावर असावा.
- २) शैक्षिक परीक्षा ही मूल्यांकनावर आधारित असेल.

संपादित ग्रंथ - 'मृदंग' भाग १

बी. ए. भाग १ - मराठी (आवश्यक)

सत्र - १

विभाग अ) वैचारिक

१)	जीवन आणि शिक्षण	विनोबा भावे
२)	ध्यायी पराकाष्ठा	साने गुरुजी
३)	मालाल तर पाघाल	अभय रांग

विभाग ब) ललित

१)	आगुण	मधुकर केचे
२)	अन्धरशा फकीर	डॉ. मधुकर वाकोडे
३)	इजिप्त	अरुण जाखडे

विभाग क) कविता

१)	संतवाणी	अ) ज्ञानेश्वर ब) सायता माळी
२)	स्फूर्ति	केशवसंत
३)	या झोपडीत माझ्या	राष्ट्रसंत तुकडोजी महाराज
४)	आत्ता	नामदेव ढसाळ
५)	शेतकरी राजा	शंकर वड
६)	भंगार	अजीम नवाज राही

विभाग ड) व्यावहारिक मराठी

१)	लेखनविषयक नियम	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १५ वे	संभा. के. प्रिन्सिपल व इतर सदस्य
२)	मुद्रितशाोधन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १६ वे	संभा. के. प्रिन्सिपल व इतर सदस्य

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10 } सत्र २
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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2017 - PART TWO -91

वी. ए. भाग १ मराठी (आवश्यक)
सत्र २

विभाग अ) वैचारिक

१)	तरुणानो ! निर्भय बना, शूर बना	रवामी विवेकानंद
२)	वैज्ञानिक दृष्टिकोन	नरेंद्र दाभोलकर
३)	स्त्री शुद्धाचा राजा छत्रपती शिवाय	चंद्रशेखर शिखरे

विभाग ब) ललित

१)	हत्तीचा दृष्टांत	केशिराज गारा
२)	अल्पभूधारक	मायाराम गुराळे
३)	यसतापेणा	मीनल येवले

विभाग क) कविता

१)	संतवाणी	अ) नागदेव ब) जनाबाई
२)	तयारस मानव म्हणावे का?	सावित्रीबाई फुले
३)	चाफा	मी
४)	गेले तुहून पंख	शिवा राऊत
५)	योद्धा	मालिका अमर शंख
६)	माय	रा.ग.पाचपोळ

विभाग ड) व्यावहारिक मराठी

१)	कार्योत्थीन पत्रव्यवहार	संदर्भ ग्रंथ : 'उपयोगित मराठी' मधील प्रकरण ३ रे	संपा. केतकी मोंडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	स्व-परिचयपत्र व नोकरीसाठी अर्जलेखन	संदर्भ ग्रंथ : 'उपयोगित मराठी' मधील प्रकरण ४ रे	

वी.ए.भाग-१ मराठी वाङ्मय
सत्र १ ले

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
येळ - ३ तारा

अभ्यासक्रमासाठी नेमलेले ग्रंथ -

- १) कादंबरी - तहान- लेखक सदानंद देशमुख, कॉन्टिनेन्टल प्रकाशन, पुणे
२) अर्वाचीन मराठी कविता (संपादित) या ग्रंथातील क्रमांक एक ते सात हे कवी पहिल्या सत्रासाठी असतील.
अ) कादंबरी - तहान ४८ गुण
ब) कविता - अर्वाचीन मराठी कविता (संपादित) ३२ गुण

८० गुण

प्रश्ननिहाय गुण विभागणी

- प्रश्न - १ संदर्भासह स्पष्टीकरण - १६ गुण
• कादंबरीवर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.
• अर्वाचीन मराठी कवितावर प्रत्येकी चार गुणांचे दोन संदर्भ विचारले जातील.
प्रश्न - २ तहान कादंबरीवर एक दीर्घांतरी प्रश्न विचारला जाईल. - १६ गुण
प्रश्न - ३ तहान या कादंबरीवर प्रत्येकी आठ गुणांचे दोन लघुतरी प्रश्न विचारले जातील. - १६ गुण
प्रश्न - ४ अर्वाचीन मराठी कवितावर प्रत्येकी आठ गुणांचे दोन लघुतरी प्रश्न विचारले जातील. - १६ गुण
प्रश्न - ५ वस्तुनिष्ठ बहुपर्यायी प्रश्न - १६ गुण
(उपरोक्त कादंबरी व कविता यावर आधारित प्रत्येकी एक गुण असे १६ वस्तुनिष्ठ बहुपर्यायी प्रश्न असतील)

अंतर्गत मूल्यमापन :

एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल त्याची गुण विभागणी खालीलप्रमाणे

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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 152

वी. ए. भाग - २ मराठी (आवश्यक)

सत्र ४ थे

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक - 'मृदगंध' भाग २ (विभाग 'अ', 'ब', आणि 'क' साठी)

विभाग - अ	वैचारिक	-	१६ गुण
विभाग - ब	ललित	-	१६ गुण
विभाग - क	कविता	-	१६ गुण
विभाग - ड	उपयोजित मराठी	-	१६ गुण
	वैचारिक, ललित व कविता या	-	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		

विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	-	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	-	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	-	१६ गुण
वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर	-	१६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न		
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा		
प्रश्न १६ गुणांचा असेल.		

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण ९ वे 'माहितीपत्रक' व प्रकरण १० वे 'निर्भरणपत्रिका व कार्यक्रमपत्रिका' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ - १० गुण
- २) मौखिक परीक्षा - १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा - ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन - २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
- २) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

संपादित ग्रंथ - 'मृदगंध' भाग २

वी. ए. भाग २ मराठी (आवश्यक)

सत्र ३

विभाग अ) वैचारिक

१)	शुध्द चारित्र्याचा प्रज्ञावंत राजकारणी	तर्कतीर्थ लक्ष्मणशास्त्री जोशी
२)	मीपण स्वत्वाच्या सीमेत दरबळत, तोपर्यंतच ते सुगंधी असत !	आ.ह. साळुंखे
३)	भाषाभिवृद्धीची सामाजिक दृष्टी	श्री. म. सुंदे

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

विभाग ब) ललित

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

विभाग क) कविता

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

विभाग ड) व्यावहारिक मराठी

१)	वक्तृत्व कला	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. केतकी 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) वैचारिक

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

विभाग ब) ललित

१)	गाडगेबाबांच्या कीर्तनातले तत्त्वज्ञान	प्रबोधनकार के.सी. ठाकरे
२)	स्मशानातील सोनं	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)	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. केतकी मोडक व इतर, पद्मगंगा प्रकाशन, पुणे
२)	निर्मुद्रणपत्रिका व कार्यक्रमापत्रिका	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १० वे	

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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2019 - PART TWO - 196

संपादित ग्रंथ - 'मृदंग' भाग ३

बी. ए. भाग ३ मराठी (आवश्यक)
सत्र ५

विभाग अ) वैचारिक

१) शेतकऱ्याचा अरुड	म. फुले
२) मंत्रबळ नव्हे यंत्रबळ	वि. दा. सावरकर
३) बुध्दी : माणसाची खरी शक्ती	दादा धर्माधिकारी

विभाग ब) ललित

१) लोकजीवनातील वृक्षपूजा	ट. ता. भोसले
२) पाणी	भास्कर चंदनशीव
३) दहा पैशाचा तमाशा	मुकुंद टाकसाळे

विभाग क) कविता

१) संतवाणी	अ) तुकाराम ब) रामदास
२) औदुंबर	बालकवी
३) गाव	ग्रेस
४) जीवनाचा शोध घेताना	वाहरु सोनवणे
५) खूणच पुसली मानवतेची	सुखदेव दाणके
६) दातासाठी हत्तीला मारण्याचे गणित	लोकनाथ शशवंत

विभाग ड) व्यावहारिक मराठी

१) अहवाल लेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १२ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२) प्रसारमाध्यमांसाठी लेखन - वृत्तलेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १७ वे मधील 'बातमी लिहावी करा' हा घटक	

बी. ए. भाग ३ मराठी (आवश्यक)
सत्र ६

विभाग अ) वैचारिक

१) डॉ. पंजाबराव	वि. मि. कोलते
२) राजर्षी शाहू : वसा आणि वारसा	गोविंद पानसरे
३) स्वराज्य सकल्पिका राष्ट्रमाता जिजाऊ	अशांक राणा

विभाग ब) ललित

१) मरणाहून आपेश पोखटे	भाऊसाहेबांची बखर
२) अरणी	मारुती वितमपल्ली
३) टग	सखा कलाल

विभाग क) कविता

१) संतवाणी	अ) शेख महंमद ब) फादर स्टिफनस
२) पोरसवदा होतीस	बा.सी. मर्डेकर
३) विज्ञता विज्ञता स्वतःला	नारायण सुर्वे
४) बैलाचा मृत्यू	वसंत आबाजी डहाके
५) काय कराल?	नारायण कुळकर्णी कवठेकर
६) शेतकरी	बदन सराडकर

विभाग ड) व्यावहारिक मराठी

१) जाहीर निवेदन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ६ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२) जाहिरात लेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ८ वे	

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SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2018 - PART TWO - 386

Semester-II (Paper-III)
Public Administration

Marks : Theory – 80
In.Ass – 20

- Unit-I** Budgetting : The Machinery of Financial Administration, Principles of Budget Making, Importance of Budget in Administration.
- Unit-II** Administrative Accountability : Legislative and Judicial Control Over Administration, Control on Public Administration of Political Parties, Public Opinion and Pressure Groups – Their Impact on Policy Making.
- Unit-III** Personnel Administration : Recruitment, Training, Promotion, Administrative Leadership.
- Unit-IV** Public Administration in the age of Globalization and Liberalization. Impact of Information Technology on Public Administration.
- Unit-V** Governance : Good Governance, Transparency and Accountability, Right to Information, Grievance Redressal Institution : Ombudsman, Lokpal and Lokayukta.

Distribution of Internal Marks

- | | | |
|--------------------------|-----|----------|
| i) Seminar Submission | ... | 10 Marks |
| ii) Seminar Presentation | ... | 10 Marks |

Reference Books :

1. Awasthi and S.R. Maheshwari, Public Administration, Agra, Lakshmi Narain Aggarwal, 1996.
2. C.P. Bhambri, Administrators in a Changing Society, Bureaucracy and Politics in India, Delhi. Vikas, 1971,
3. Gladen - An Introduction to Public Administration
4. Tyagi, A.R. - Public Administration
5. M.P. Sharma & B.C. Sadane - Public Administration in Theory and Practice
6. M. Bhattacharya, Public Administration : Structure, Process and Behaviour, Calcutta, the World Press. 1991.
7. M.E. Dimock, and G.O. Dimock, Public Administration, Oxford, I.B.H. Publishing Com., 1975.
8. प्रा. प.सि.काणे - लोक प्रशासन.
9. प्रा. भोगले - लोक प्रशासन.
10. प्रा. वी.वी.पाटील - लोक प्रशासन.
11. प्रा.दि.का.गर्दे - लोक प्रशासन तत्त्व आणि तंत्र

Semester-II (Paper-IV)
THEORIES OF INTERNATIONAL RELATION

Marks : Theory – 80
In.Ass : – 20

- Unit-I** End of Cold War World : Meaning, Factors leading to the end of Cold War. Unipolarity and Diffusion in Regional Power Centres.
- Unit-I** North-South Dialogue and South-South Dialogue and their Major Issues.
✓ Gender Issues : Theories, Conference, Impact of World Politics.
- Unit-III** Globalization : Meaning, Nature, its Advantage and Disadvantage, Role of WTO, Liberalisation and its Changing Nature of State.
✓ Environmental Issue : Environmental Degradation as Global Concerns its effects, Steps taken for Environmental Protection at International Level : Stockholm to Paris.

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Syllabus on Human Values

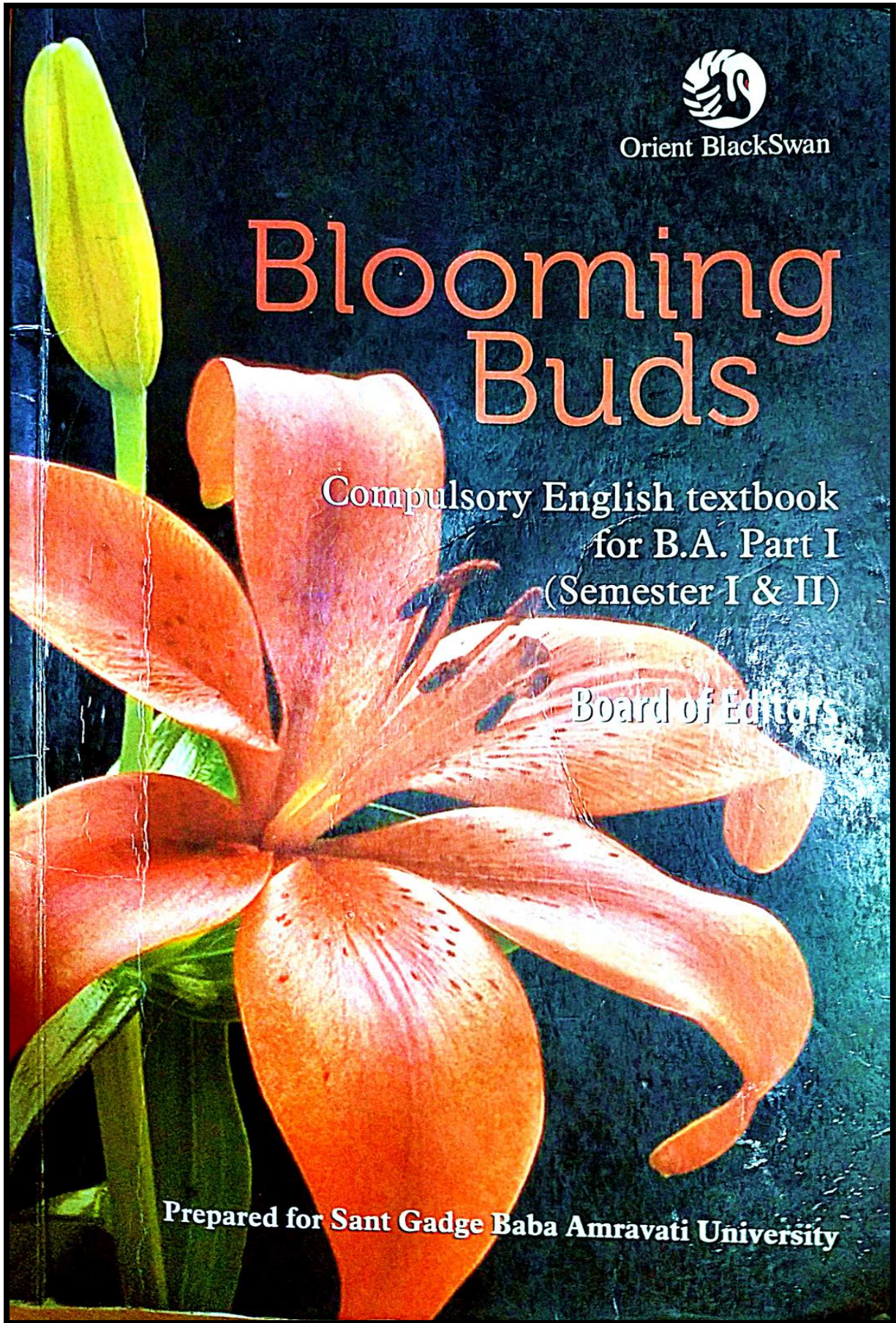


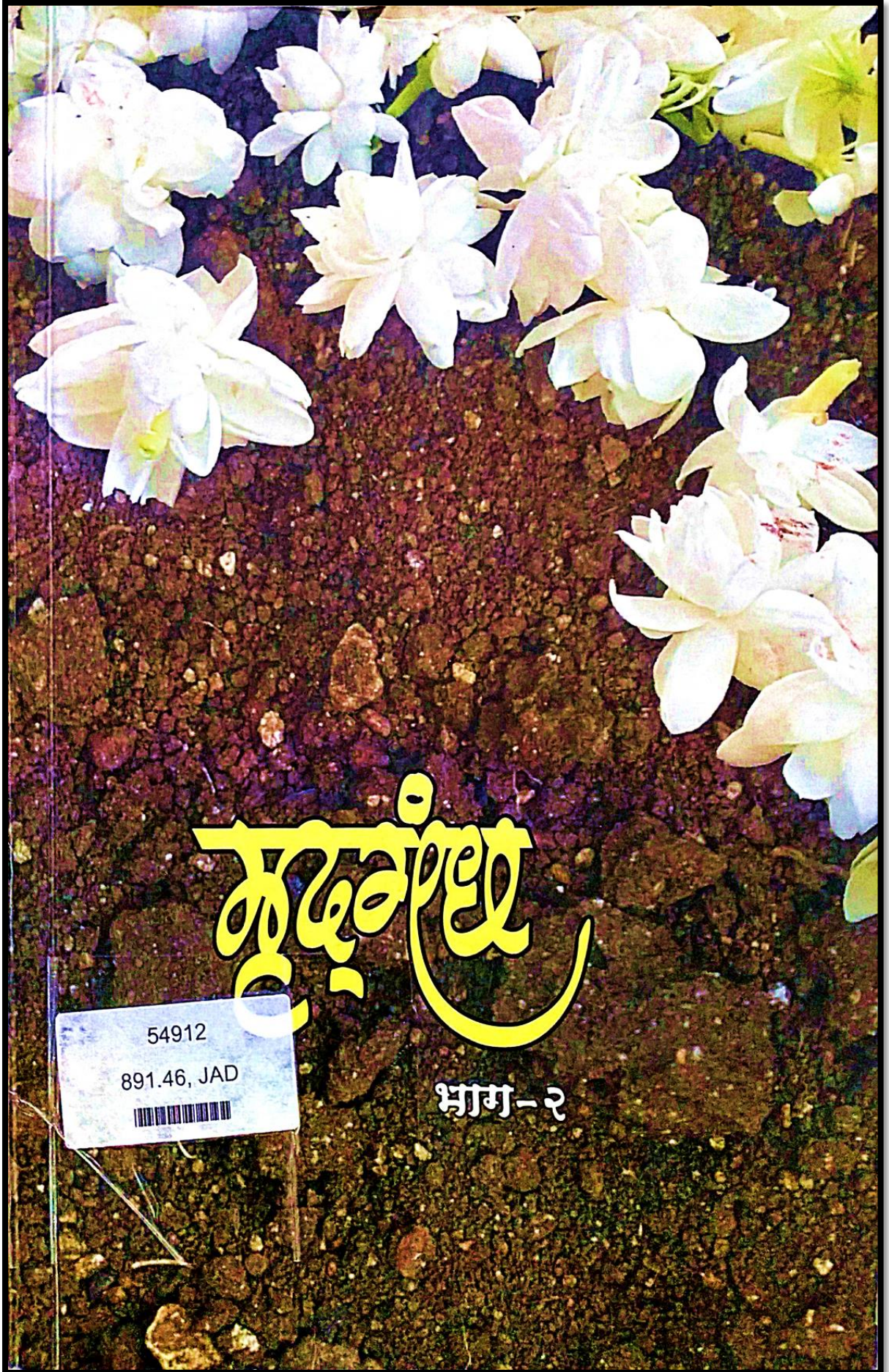
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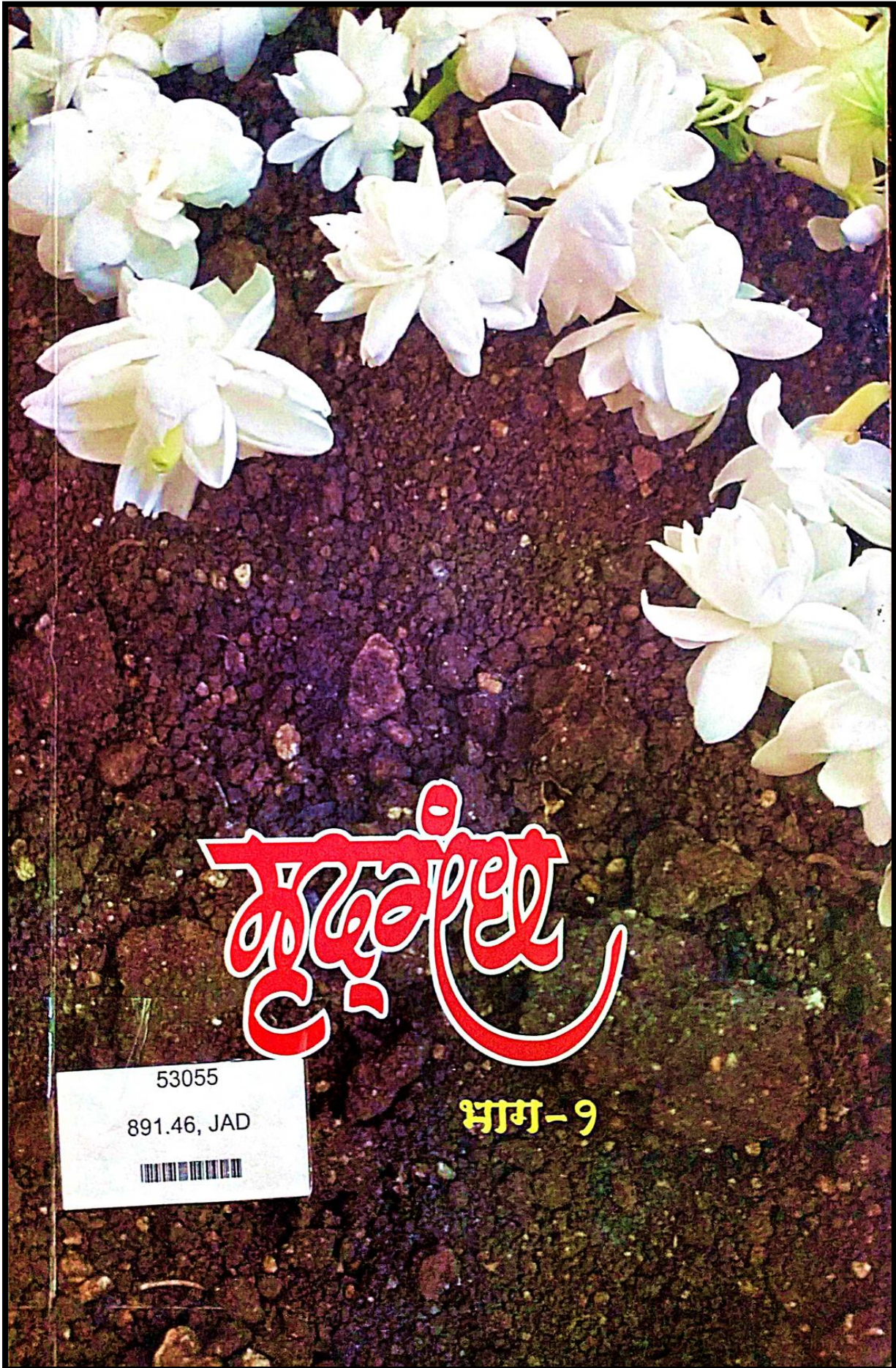
ELIXIR

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LITERATURE AND LANGUAGE

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16

Syllabus prescribed for B.Sc. Part-I (Home Science)
Semester-I
(Implemented from the Academic Session 2010-2011)
Subject Code 113CS1
Communication Skills

Theory : 4 Periods/Wk (Credits 4) Theory Marks : 40
Tutorial : 1 Period/Wk Th.Int.Ass. Marks : 10
Practical : 1 Period/Wk (Credits 0.4) Practical Marks : 10
Total Marks. : 60

Objectives :- After completing course students will be able to

- develop skills of communication in English and Marathi.
- understand the importance of communication language in academic and professional growth.

Theory

Unit-1 : 1.1

Elements of Communication :

- Sender
- Receiver
- Message
- Channel
- Feedback, and
- Context

1.2

Communication Processes :

- Various stages in the communication process, encoding, transmitting, decoding.
- Comprehending the context
- Knowing the receiver, sender
- Designing the message
- Encoding and Transmitting
- Selecting proper Channel
- Receiving and decoding.
- Feedback.

Unit-2 : 2.1

Effective Communication :

- Communication barriers and ways and means to overcome them.
- Each stage in communication process.
- Developing effective messages : Purpose
- Knowing the audience
- Structuring the messages.
- Selecting an appropriate channel.

2.2

Body Language :

- Introduction - Voluntary and involuntary body language.
- Forms of body language, parts of body language.

Prerna

17

- Uses of body language, body language in building interpersonal relations.
➤ Improving your body language.
- Unit-3 :**
- Use of Article, conjunctions, prepositions.
 - Tenses, modals, subject-verb arrangement.
 - Types of sentences – Assertive, negative, interrogative, exclamatory and imperative, simple, compound and complex.
 - Questions and auxiliary verbs.
- Unit-4 :** **Communication Skills in English and Marathi**
- Composition
 - Letter writing – Personal, official and business correspondence.
 - Application – Employment, complaints, resume.
- Unit-5 :** **Communication Skills in English and Marathi**
- Picture Composition
 - Comprehension of the given passage.

Practicals :-

Practicals will be based on Unit-3, 4 & 5.

Reference :-

- (1) Allan, W., Living English Structure, Orient publications.
- (2) Allan, W., Living English speech, Orient publications.
- (3) Sharma, Pushpa, Effective English, Kumar Pub. N.Delhi.
- (4) Jones, Daniel, Pronunciation of English, Universal Book Stall, N.Delhi.
- (5) Inthera, S.R., Enrich Your English, Central Instt.(CIEFL), Hyderabad
- (6) Cobuild, Student Dictionary and Grammer, Harper Collins Pub. London.
- (7) Jones, Daniel, English Pronouncing Dictionary, Universal Book Stall, New Delhi.
- (8) Murphy R., Intermediate English Grammer, Foundation Books, New Delhi.
- (9) Murphy R., Essential English Grammer, Cambridge University Press, London.
- (10) Krishnaswamy, N., Teaching English Grammer, T.R.Publications, Chennai.
- (11) Krishnaswamy, N., Teaching Spoken English & Communication Skills, T.R.Publications, Chennai.
- (12) Birkett, Julian, Word Power, T.R.Publications, Chennai.

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Theory**Unit-1 :****1.1 Home Science as a Discipline :**

- Concept, meaning and definition.
- Objectives, philosophy, scope and need of Home Science.
- Home Science as a multidisciplinary course.

1.2 Resource Management :

- Meaning and definition.
- Need and importance of resources.
- Role of resource management in the development of family and community.

Unit-2 : Food Science and Nutrition :

- Meaning and definition.
- Need and importance of food.
- Role of food and nutrition for sound health of individual, family and community.

Unit-3 : Human Development :

- Meaning and definition.
- Importance and Principles.
- Role of Human Development in building good citizen.

Unit-4 : Textiles and Clothing :

- Meaning and definition.
- Need and importance of clothing.
- Role of textile and clothing in personality development.

Unit-5 : Communication and Extension :

- Meaning and definition
- Need and Importance
- Role of Communication and Extension in Community Development

Practical :

- Discuss the following statements and prepare reports.
 1. Home Science is an intra disciplinary course.
 2. Home Science is an inter disciplinary course.
 3. Home Science Education is playing a vital role in building capacity of individual, family and community for better quality of life.
- Maintain bulletin board of your college related to issues in home science by displaying pictures, paper cutting.
- Seminar on current trends in Home Science.

References :

1. Joseph, M.C.; Introduction to Textile Science

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20

2. Alexander D.A.; Textile
3. Vargese; Home Management, Wiley Eastern Ltd., Bombay
4. Arvind Chandra, Introduction to Home Science
5. Rajamal P.Devdas; Text Books of Home Science
6. Rajamal P.Devdas; Home Science and the Nation; Units of Madras.
7. Supe S.V.; An introduction to Extension Education.
8. Dahama, O.P.; Extension Education.
9. Swanson Betty, Introduction to Home Management.
10. Shrilakshmi; Food Science, New Age International Publication
11. Shrilakshmi; Nutrition, New Age International Publication
12. Shrilakshmi; Dietetics, New Age International Publication
13. Publication of I.C.M.R., WHO.

Subject Code 111RM3**Resource Management**

Theory : 3 Periods/Wk (Credits 3.2) 4

Practical : 1 Periods/Wk (Credits 1.2)

Theory Marks : 40 50

Th.Int.Ass.Marks : 10

Practical Mks. : 20 30

Practical Int.Ass.Mks.:10

Total Mks. : 80 100

Objectives :-

After completion of course, students will be able to -

- Know systematic process of management and role of goal, values, standard etc.
- Understand the decision making process.
- Sensitize with family resources.

Theory**Unit-1 :**

- Meaning and importance of Management in day to day life.
- Management Process :
 - Planning
 - Controlling
 - Evaluation.

Unit-2 : Decision Making :

- Meaning
- Types
- Modes of decision making in management.
- Techniques and tools for decision making.
- Decision tree.

Unit-3 : Family Resources :

- Meaning and definition

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25

- 3) Shrilakshmi, B.1998. Dietetics. Wiley Estern Limited, Pune.
- 4) Swaminathan. M.1985. Human Nutrition and Diet Bappco. Bangalore.
- 5) Swaminathan. M. 1985. Essentials of Food and Nutrition, Bappco., Bangalore Vol I & II.
- 6) Antia, F.P. 1991. Clinical Nutrition and Dietetics. Oxford University Press, Bombay.
- 7) Pooja Talikoti, Anshu Puri, Ritika Gupta 1996. Diet Nutrition and Health, Print well, Jaipur.
- 8) Mahtab Bamji, Vinodini Reddy & Pralhad Rao, 1996. Text books of Human Nutrition, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
- 9) Okoye, z.s.c. 1992. Biochemical Aspects of Nutrition. Prentice Hall of India, New Delhi.
- 10) Williams S.R., 1981. Nutrition and Diet Therapy. L.V.Publishers. S. Louis.
- 11) Ghosh. S. The feeding and care of infants and young children VHAI, 1981.
- 12) Mudambi, S.R. and Rajagopal, M.V. 1985 fundamentals of food and Nutrition. Wiley Estern Ltd. Ansari Road, New Delhi.
- 13) The Education Planning Group, 1983. Food & Nutrition for Senior College girls. Arya Publishing House, New Delhi.
- 14) डॉ.आशा देऊसकर १९९६ 'मानवी पोषण व आहार शास्त्राचे मुलतत्त्वे' विद्या प्रकाशन, नागपूर
- 15) Ranganna S. 1994 Handbook of Analysis and Quality control fruit and vegetable products, Tata Mc Graw Hill Publishing Co., Ltd., New Delhi.
- 16) डॉ.आशा माने- 'मशरूम भाग-२', मशरूम संशोधन प्रयोगशाळा, अमरावती.

Semester-III

Subject Code : 233HD17

Human Development

Theory : 3 Periods/wk (Credits 2.4)	Theory Marks	: 40
Practical : 3 Periods/wk (Credits 1.2)	Int.Ass.Mks.	: 10
	Pra.Marks	: 20
	Pra.Int.Ass.Mks.	: 10
	Total Marks	: 80

Objectives :-

- (1) To give the students a broad comprehensive view of child at each stage of development-
- (2) To make aware of the developmental stages of young children.

26

- (3) To develop awareness about important aspects of development during the whole life span.
- (4) To understand the issues face and adjustment required at each stage across the life span.

Course Contents :**Theory****Unit-1 : Adolescence –**

- 1.1 Characteristics, Developmental tasks.
- 1.2 Physical & psychological changes.
- 1.3 Changes in self & social behaviour.
- 1.4 Common emotions and emotional maturity.
- 1.5 Problems related to adolescence.
- 1.6 Vocational guidance & vocational hazards.

Unit-2 : Early Adulthood –

- 2.1 Age, characteristics, Developmental tasks.
- 2.2 Physical changes.
- 2.3 Problems of early adulthood.
- 2.4 Changes in internet.
- 2.5 Personal & social hazards.

Unit-3 : Middle Adulthood (Middle Age) –

- 3.1 Age, characteristics, Developmental tasks
- 3.2 Physical & psychological changes.
- 3.3 Vocational adjustment and hazards.
- 3.4 Adjustment to changed family pattern.
- 3.5 Changes in interest.

Unit-4 : Old Age –

- 4.1 Characteristics, Developmental tasks
- 4.2 Adjustment to Physical & mental changes.
- 4.3 Problems of old age.
- 4.4 Attempts to solve problems by society.
- 4.5 Psychological and sociological aspects of aging.

Unit-5 : Mental Health Hygiene –

- 5.1 Meaning, symptoms, causes of mental health.
- 5.2 Remedies of good mental health.
- 5.3 Meaning & definition of mental hygiene.
- 5.4 Importance of mental hygiene.
- 5.5 National mental health policy of India.

Practical :- Visit to different welfare institute.

- (1) Old age home
- (2) Children home and observation centre.
- (3) Women rehabilitation center.

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41

- (2) To understand meaning of curriculum & various components to be included in the daily programme to promote all round development of children.

Course content

Theory

- Unit-1 :** Principles of early childhood education.
- 1.1 Importance, need & scope of early childhood education.
 - 1.2 Types of preschool programmes : Balwadi, anganwadi, nursery, kindergarten, Montesory.
 - 1.3 Major philosophy of E.C.E. – Pestallozi, Rousseau, Maria Montessary, M.K.Gandhi, Terabai Modak.
- Unit-2 :** Programme Planning.
- 2.1 Goals and objectives of plans – long term, short term, weekly & daily planning.
 - 2.2 Activities-I – Language, Arts, & craft activities, music, mathematics, science & social studies.
- Unit-3 :** 3.1 Activities-II :
- Songs & stories.
 - Organized games.
 - Dramatisations
 - Creative Activities
 - Field strips.
 - functions & Celebrations.
- 3.2 Play :
- Types of Play.
 - Importance of Play
 - Indoor and outdoor games.
 - Play equipments.
 - Care of play equipments.
- Unit-4 :** Techniques of Parent – Children-Teacher Relationship :-
- 4.1 Informal meeting.
 - 4.2 Written / printed news letters.
 - 4.3 Notices.
 - 4.4 Workshops.
 - 4.5 demonstrations.
 - 4.6 Guidance programmes for parents of nursery school children.
 - 4.7 General guidelines and criteria for evaluation of parents.
- Unit-5 :** 5.1 Parent child relationship:- Parental Practices – Rejection, over protection, acceptance, favouritism.

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42

5.2 Human Psychology :- Definition, field of application – Industry, educational, clinical, criminal and military services.

5.3 Methods of study : Introspection, observation, experimental, case history methods and clinical survey.

Practicals :-

- (1) Visits to day care centre, anganwadi, nursery school, crèche.
- (2) Activities – Art, Science, Music & Creative Activities.
- (3) Seminar and record book.
- (4) Testing – (i) Parent child relationship, (ii) Family climate scale.

References :

- 1) Planning & Administering Early Childhood Programmes, colombus : Charles E. Merall, Decker C.A. & Decker J.R.
- 2) Kaul v. (1995), Early Childhood Education Programme, New Delhi, National Council for Education & Research & Training.
- 3) Katherine, "The Nursery School".
- 4) Moore S.B., Rochard P. – Teaching in Nursery Education.
- 5) Muralidharan N. – System of Preschool Education in India.
- 6) National Policy on Education (1986), New Delhi, Ministry of Human Resource Development.

Semester IV

Subject Code : 244TC26

Textile and Clothing

Theory - 3 periods / wk (Credits 2.4)	Theory marks	-40
Practicals - 3 periods /wk (Credits 1.2)	Theory internal marks	-10
	Practical marks	-20
	Pract. internal marks	-10
	Total marks	-80

Objectives -

- 1) To impart knowledge on different textile finishes.
- 2) To make the students aware of the factors affecting children's clothing
- 3) To impart knowledge of clothing construction techniques.

Course content

Theory

- Unit 1** : Finishes --
 1.1 Process of Finishes
 1.2 Classification of Finishes.
- Unit 2** : Wardrobe Planning

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28

Unit-1 : Personality Development :

- 1.1 Concept of Personality
- 1.2 Determinents of Personality
- 1.3 Assesemnt of Personality
- 1.4 Improving Personality

Unit-2 : Personal Grooming :

- 2.1 Personal Hygiene
- 2.2 Balance Diet
- 2.3 Dressing
- 2.4 Care and maintenance of Hair, facial features, complexion, etc.
- 2.5 Exercise

Unit-3 : Etiquette and Manner :

- 3.1 Introduction to Etiquette, benefits of Etiquette.
- 3.2 Introduction to manner, practicing good manners.
- 3.3 Test Etiquettes and manners.

Unit-4 : Self Discovery :

- 4.1 Importance of knowing yourself.
- 4.2 SWOT Analysis.
- 4.3 Use of SWOT Analysis.

Unit-5 : Emotional Intelligence :

- 5.1 Meaning of emotions and moods.
- 5.2 Types of emotion.
- 5.3 Emotional intelligence.

Practical :-

- (1) Assessment of your own personality through role play, skits, clues etc,
- (2) Testing of emotional quotient.
- (3) Prepare your own (personal / professional) SWOT analysis grid and set your working goals.
- (4) Study of various types of dressings.
- (5) Do's and don'ts of diet in care of personality.
- (6) Improving personality through exercise.

References :-

- (1) Robin S.P., Organization Behaviour, Prentice Hall of India.
- (2) Luthans F., Organization Behaviour, Mc Graw Hill.

Subject Code 11 EL 7.2**Pranayam**

Theory : 1 Period/Wk/Credit 0.8

Practical : 2 Periods/Wk/Credits 0.8

Th.Int.Ass.Marks : 20

Practical Mks. : 15

Practical Int.Ass.Mks.:5

Total Mks. : 40



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29

Objectives :- After completion of course, students will be able to - understand health benefit of pranayam.

- develop skill of doing pranayam.
- practice pranayam.
- know the importance of Mudras and Chakaras.

Theory

Unit-1 :

- Introduction to Yoga.
- Pranayam – Meaning and Importance.

Unit-2 :

- Bhastrika
- Kapalbhathi
- Bahaya
- Oojace

Unit-3 :

- Anulom Vilom
- Bharamari
- Oodgith
- Pranav

Unit-4 :

- Mudras – Types and importance.
Dhyan, Shoonya, Apan, Vayu, Pruthvi, Shakti and Varun Mudra.

Unit-5 : Chakaras

- Root Chakra – Reproductive system.
- Hypogastric Plexus – Excretory system.
- Solar Plexus – Digestive system.
- Lower mind plexus – Skeleton system.
- Cardiac Plexus – Circulatory system.
- Carotid Plexus – Respiratory system.
- Medulary Plexus – Nervous system.

Practical :-

- Practice of Mudras
- Practice chakaras
- Develop skill of pranayam.

References : Publications of Patanjali Yogpeeth, Haridwar

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22

- (3) Blix, G. (1978), Food Cultism and Nutrition Quackery, Almgvist and Wiksels, Uppasala.
- (4) Gillespie, S. Mc Neil, G. (1992), Food, Health and Survival in Developing Countries, Oxford University Press.
- (5) Oskamp, Stuart, (1987), Attitudes and Opinions, Prentice Hall.
- (6) Okediji, O.F. (1973) Theoretical and Methodological Critique of surveys of knowledge, Attitude and Practice of Family Planning in Africa. International Review of Modern Sociology, Vol.3(i), March.
- (7) Davis, D. and T.Ostrom (1987), Attitude Measurement in concise Encyclopaedia of Psychology (ed) J.Ramond Cossini, John Wiley and Sons, New York.
- (8) Goode j., Wand P.K.Hatt (1952), Methods in Social Research, McGraw Hill, New York.

Semester-I

Subject Code : 112NP48

Nutrition Programme Design and Evaluation

Learning Objectives :- After completing this course, students will be able to-

- understand the process of programme design.
- develop ability in planning nutrition programmes.

Unit-1 : Programme Planning and Implementation :

1.1 Planning

- Meaning and importance.
- Pre-requisites for developing plan (short and long term)
- Programme Planning Processes.

1.2 Implementation

- Aspects of execution
- Factors responsible for successful conduct of programme.

Unit-2 : 2.1 Evaluation

- Meaning and purpose of Evaluation.
- Types and tools of Evaluation.

2.2 Follow up

- Need for follow up.
- Methods of follow up

2.3 Documentation

- Need for reporting and recording.
- Aspects to be covered.

Unit-3 : Nutrition Programme Design

3.1 Formulation of objectives and target group.

3.2 Resource Mapping.

3.3 Administrative Structure.

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- (3) Bimard P. (1999) : Counselling Skills Training, New Delhi, Viva Books.
- (4) Kapur M. (1995), Mental Health of Indian Children, New Delhi, Sage Publication.

Semester-III

Subject Code : 233CH56

Child and Human Rights

Learning Objectives :- After completion of the course the students will be able to sensitize with child and human rights.

Practicals :-

1. Case studies of women and children in difficult circumstances in NGO setting.
2. Legal case history of child at Govt. observation center.
3. Visit to women's & child organizations.
4. Interview with activists and legal advisors in society.
5. Class discussions / debates on Child & Human rights.
6. Case study of child labour.
7. Planning & organization of intervention programme for marriage & family problems.
8. Planning & organization of intervention programme for child in distress.

References :-

- (1) Butterworth, D. and Fulmer, A. (1993). Conflict, Control Power. Perth : Child and Family consultants.
- (2) Bruner, T. (1986). Actual minds – possible words. London : Harvard University Press.
- (3) Digumarti, B.R., Digumarti, P.L. (1998). International Encyclopedia of Women (Vol.1). New Delhi : Discovery.
- (4) D'Souza, C. and Menon, J. Understanding Human Rights. (Series 1-4). Bombay : Research and Documentation Centre, St.Pius College.
- (5) Dreze, Jean and Sen, Amartya (1989). Hunger and Public Action, U.K., Oxford University Press.
- (6) Government of India (1992b). National Plant of Action : A commitment to the Child, Department of Women and Child Development, New Delhi.

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Drat Syllabus for B.A. Part-I
Semester-I (Psychology)
Paper-I
Fundamentals of Psychology

Objective : To Provide understanding of basic Psychological Processes and its Application in Everyday Life.

Unit-I Introduction and Methods of Psychology :

- A) Definition and goals of Psychology. Schools of Psychology: Psychoanalysis, Behaviorism (1940), Humanistic, Cognitive, History of Psychology. 2pg, 3pg. In signat. (Behavior & Introductory to competitive psy)
- Methods of Psychology: Experimental, Observation, Survey, Correlational and Clinical Method. 19pg, 20pg, 21pg
- B) Biological bases of Behavior: Function and structure of Neuron, Spinal Cord and Brain. Autonomic Nervous System.

Unit-II Cognitive Processes :

- A) Attention: Definition, Types, Determinants of Attention, Span of Attention, Fluctuation of attention, Division of attention and distraction of attention. 55pg, 35pg, 46pg
- B) Perception: Definitions, laws of perceptual organization, determinants of perception, figure and ground, Illusion.

Unit-III Learning :

- A) Learning: Definition, types of learning, methods of learning- imitation, classical and instrumental conditioning, trial and error method, laws of learning, insight learning, latent learning and avoidance learning, Transfer of learning.
- B) Problem solving: Nature, characteristics, problem solving strategies, impediments to problem solving.

Unit-IV Memory and Forgetting :

- A) Memory- Definition, stages of memory; sensory memory, short term and long term memory. Methods to measure retention, techniques to improve memory.
- B) Forgetting- Definition, forgetting curve, theories of forgetting: interference, decay, reconstruction and amnesia.

Practicals (Any Five)

- 1) Substitution Learning
- 2) Habit Interference
- 3) Muller-Lyer Illusion
- 4) Span of Attention
- 5) Division of Attention
- 6) Memory Span
- 7) Mental Set

Semester-II (B.A.Part-I)
Paper- II
Fundamentals of Psychology

Objective : To provide understanding of basic Psychological Processes and its Application in Everyday Life.

Unit-I Motivation :

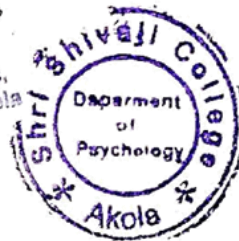
- A) Motivation: Definition, motivational cycle, types of motives: physiological, psychological and social motives: Hierarchy of motives.
- B) Conflict of motives: nature and types of conflict, direct and indirect ways of resolving conflict.

Unit-II Emotion :

- A) Emotion: Definition, difference between feeling and emotions, physiological changes in emotion, facial feedback hypothesis, role of limbic system.
- B) Theories of emotion: James-Lange, Cannon-Bard, Schacter-Singer theory.

Unit-III Intelligence :

- A) Intelligence: Definition, types, the concept and classification of IQ, measurement and types of intelligence tests. Creativity: nature, characteristics and uses. Creativity and intelligence.
- B) Theories of intelligence: Binet, Spearman, Thurston, Gardner, Guilford and Sternberg.



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- 7 types
- 1) verbal comprehension
 - 2) numerical ability
 - 3) space ability
 - 4) word fluency
 - 5) reasoning

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Unit-II Variables :

- 2.1 Meaning and Types
- 2.2 Research Problems : Sources and Types, Criteria of a Good Problem
- 2.3 Hypothesis : Meaning and Types
- 2.4 Sampling : Meaning and Types
- 2.5 Methods of Data Collection : Experimental, Interview, Survey and Case Study

Unit-III Introduction to Psychological Testing :

- 3.1 Definitions, Types, Characteristics and uses of Psychological Testing
- 3.2 Reliability : Definition and Types
- 3.3 Validity : Definition and Types
- 3.4 Norms : Definition and Types.

Unit-IV Statistics : Critical Ratio 't' (Small Sample) and Chi Square

Practicals (Conduct Five) (30 Marks)

1. Expectation from Life Partner Scale
2. Happiness Scale
3. Marriage Attitude Scale
4. Locus of Control
5. Type A, B Behavioural Pattern Scale
6. Deva's Social Adjustment Inventory
7. Interest Inventory
8. Normal Probability Curve

20 Marks of Internal Assessment (As shown in above Instructions)

Recommended Books :

1. Psychological Testing and Assessment - Ronals Jay Cohen, Mark E. Swerdlik 6th Edition, McGraw Hill, New Delhi – 2005..
2. Psychological Testing - Anne Anastasi, Susana Urbina, Pearson Education, 2005.
3. Psychological Testing - Frank S. Freeman 3rd Edition, Oxford and IBH Publishing, New Delhi – 1965.
4. Psychological Testing - Kaplan and Saccuzzo, Wadsworth Thompson, 2001.
5. Research Methods - McBurney, Thompson, Indian Edition, 2000
6. Essentials of Research Methods in Psychology - Shaugknassy, Tata McGraw Hill, 2009.
७. मानसशास्त्रीय चाचण्या - अनिता पाटील, डायमंड पब्लिकेशन, पुणे – २००५
८. मानसशास्त्रीय संशोधन पद्धती - डॉ.बी.एन.बर्वे, विद्या प्रकाशन, नागपूर – २०१०
९. मनोमापन - डॉ.बी.एन.बर्वे, एच.जे. नरके, विद्या प्रकाशन, नागपूर – २००५.

**Syllabi for B.A. Final
Semester-V**

**Modern Concepts and Policy in Politics
(Implemented From 2019-2020 Session)**

Appendix-H

Marks : Theory – 80
In.Ass - 20

Unit-I Leadership :

- a) Meaning of Leadership.
- b) Factors of Leadership.
- c) Role of Leadership



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Unit-III Migration and Urbanisation :

- 3.1 Concept, Types and Effects of Migration.
- 3.2 Theories of Migration.
- 3.3 Urbanization – Growth and Distribution of Rural-Urban Population in Various Countries (Develop and Underdevelop).

Unit-IV Demographic Data Base in India :

- 4.1 Census of India – 2001, 2011.
- 4.2 Population in India – Details
- 4.3 National Family Health Survey.

Unit-V Population Policy in India :

- 5.1 Population, Economy and Environmental Linkages –Population, Health, Nutrition, Productivity Nexus.
- 5.2 Evolution of Population Policy in India – Family Welfare, Women Employment, Family Planning, Child Health, Women Health.
- 5.3 National Population Commission.

Reference Books :

1. Krishnaji M., R.M. Sudarshan - Gender Population of Development, Oxford University and Shariff (1999) Press, New Delhi.
2. Sudarchan and A Shariff - Gender Population and Development, Oxford University (1999) Press, New. Delhi.
3. Gupta J.A. (2000) - New Reproductive Technologies, Women's Health imi Autonomy, Indo-Dutch Studies on Development Alternatives, Sage, New Delhi.
4. Mishra S (2000) - Voluntary Action in Health and Population : The Dynamics of Social Transition, Sage, New Delhi.
5. Mitra, A (1997) - Implications of Declining Sex Ratio in India's Population, Allied, New Delhi.
6. Seth, M. (2000) - Women and Development : The Indian Experience, Sage, New Delhi.
7. Pathak, K.B. and F. Ram (1998) - Techniques of Demographic Analysis, Himalaya Publishing House, Mumbai.
8. Bhende, A.A. and Kanitkar T. (2000) Principles of Population Studies, Himalaya, Publishing House, Mumbai.
9. श्रीवास्तव एस.सी. (१९९९)- जनकिकीय अध्ययन के प्रारूप, हिमालया पब्लिशिंग हाऊस.

Semester-IV
Group-B (Paper-IV)
Welfare Economics

Marks : Theory – 80
In.Ass – 20

Unit-I Pre-Paretian Welfare Economics-I.

- 1.1 Definition and Nature of Welfare Economics.
- 1.2 Benthamite Approach to Aggregate Welfare.
- 1.3 Optimum Resource Allocation and Welfare Maximization.
- 1.4 Assumption of Uniform Income – Utility Function of Individuals Question of Income Distribution.

Unit-II Pre-Paretian Welfare Economics-II.

- 2.1 Marshallian Welfare Economics
- 2.2 Consumer's Surplus – Measurement of Consumer's Surplus. Criticism.
- 2.3 Hicks Consumer's Surpluses.
- 2.4 Consumer's Surplus and Tax Bounty Analysis.

Unit-III Paretian Welfare Economics-I.

- 3.1 Pareto Optimality – Optimum Exchange conditions.
- 3.2 The consumption optimum – the Production Optimum.
- 3.3 Concept of contract curve – Top level optimum, Infinite number of non comparable Optima Vs. Unique Social Optimum.
- 3.4 Compensation criteria – Kaldor & Hicks.

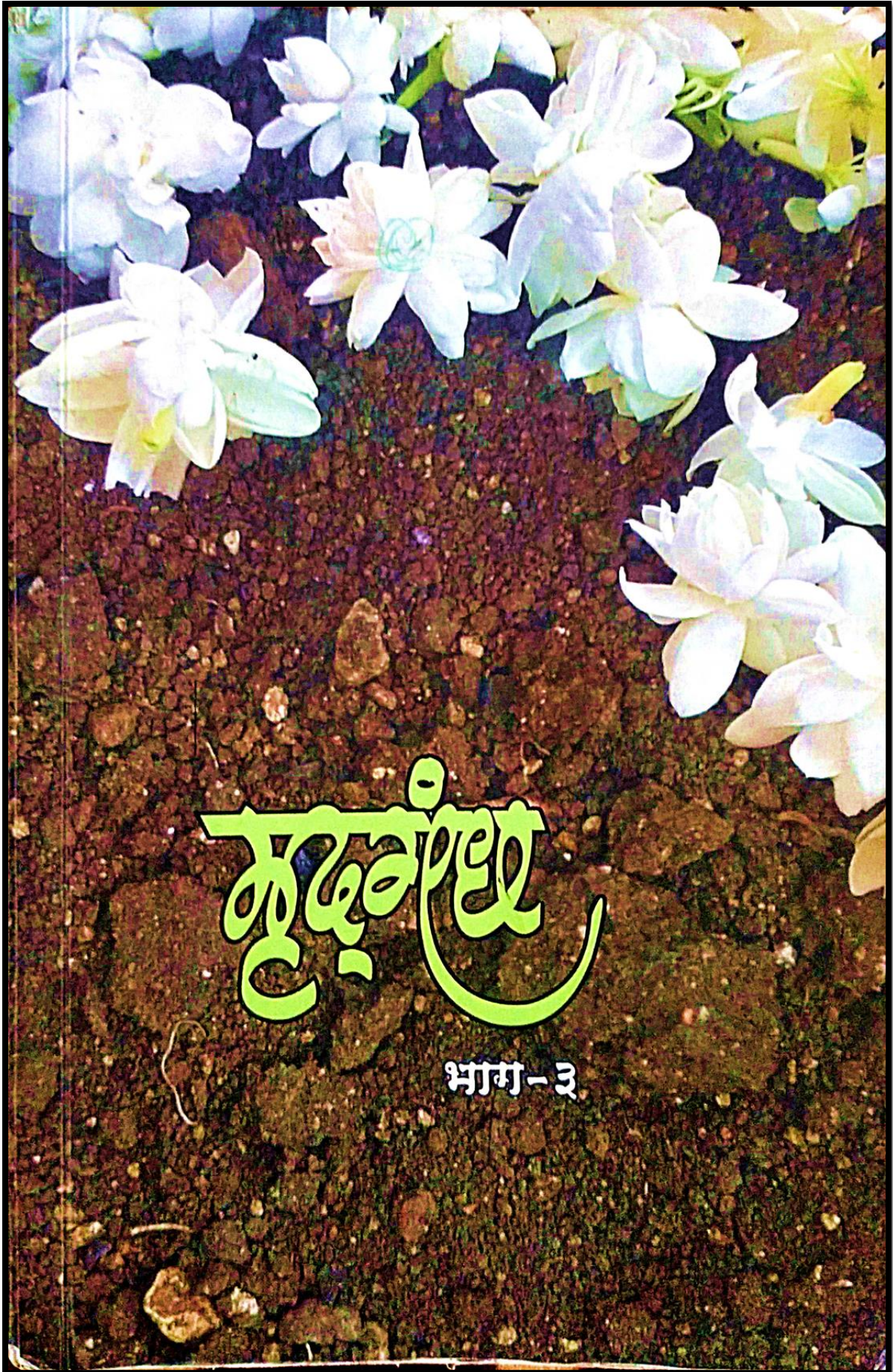
Unit-IV Paretian Welfare Economics-II.

- 4.1 Seitovsky double criteria.
- 4.2 Concepts of Community indifference map.
- 4.3 Samuelson's utility possibility curve.
- 4.4 Bergson's Social Welfare Function, Ar

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अनुबंध

भाग- १

(सत्र-१)

संपादक

डॉ. अशोक नामदेव पळवेकर

डॉ. पंडित गोबरा राठोड

डॉ. अनंत सिरसाट

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संत गाडगे बाबा अमरावती विद्यापीठाच्या
वाणिज्य स्नातक प्रथम वर्षासाठी मराठी (आवश्यक) विषयाचे पाठ्यपुस्तक

संत गाडगे बाबा अमरावती विद्यापीठाच्या
वाणिज्य स्नातक द्वितीय वर्षासाठी मराठी भाषा पाठ्यपुस्तक

अनुबंध

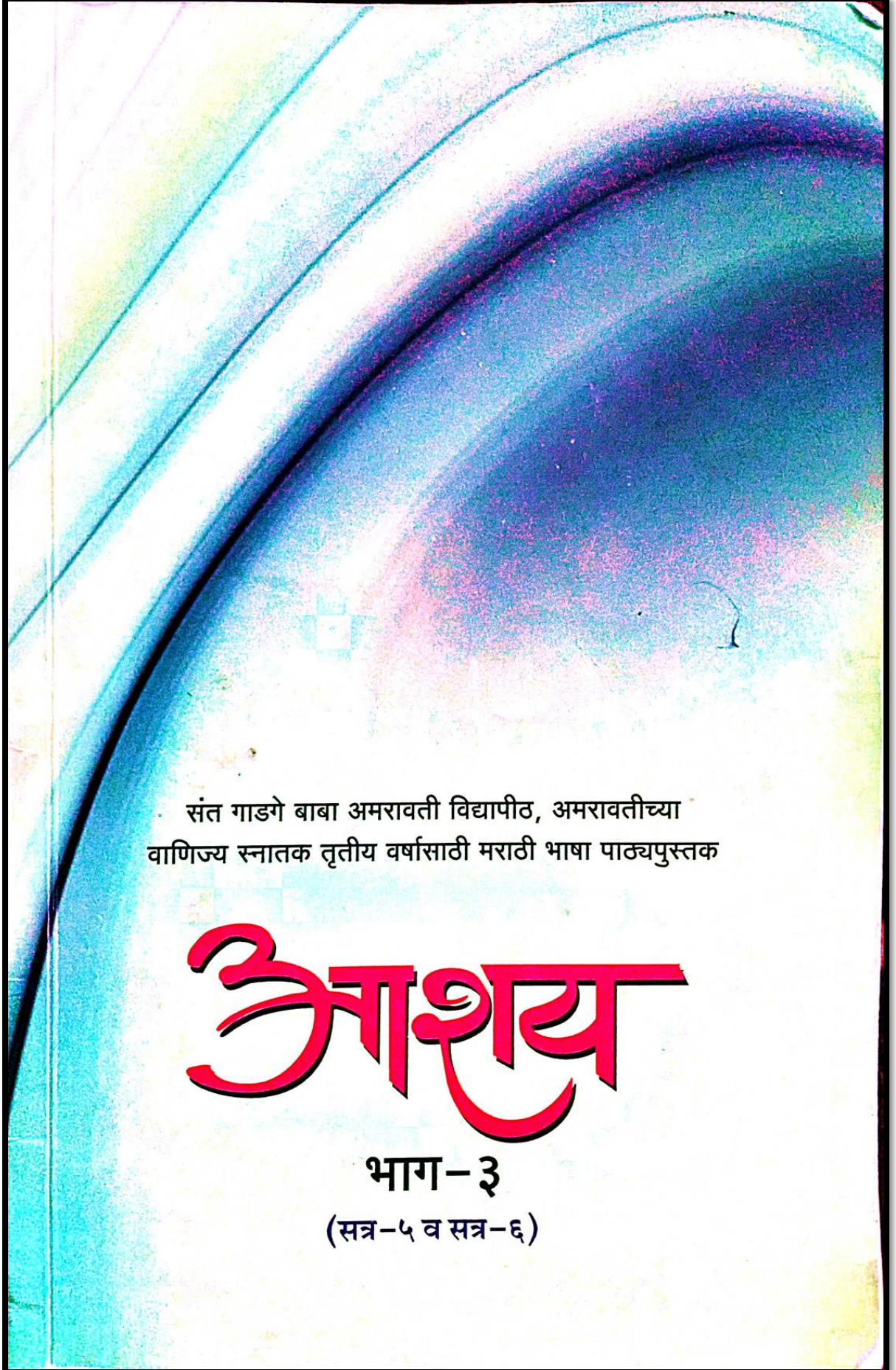
भाग-२

(सत्र-३ व सत्र-४)

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संत गाडगे बाबा अमरावती विद्यापीठ, अमरावतीच्या
वाणिज्य स्नातक तृतीय वर्षासाठी मराठी भाषा पाठ्यपुस्तक

आशय

भाग-३

(सत्र-५ व सत्र-६)

Syllabus on Gender

National Nutrition Week 2021

The week is observed to raise awareness about health and nutrition. During this week, various initiatives are taken up by the government which totally focuses on good food, healthy body, right nutrition, and lifestyle.

Through these initiatives, people learn new eating habits that can help them to obtain good nutrients in the coming days. As nutrition plays an important role in an individual’s life, it is necessary to have the right amount of nutrition including proteins, vitamins, salts among others in our daily diet.

Theme for National Nutrition Week 2021

This year, the theme for the National Nutrition Week was “feeding smart right from start”. Healthy food habits play a vital role in the growth of an individual and are necessary for overall holistic development and lifestyle. This week was to increase awareness about Nutrition and adaptive eating habits. In India, it is observed that the main reason for organizing the national nutrition week 2021 is that people should recognize the importance of nutritional eating habits so they can properly take care and maintain their healthy lifestyle by eating healthy food.

Despite the ongoing [coronavirus](#) pandemic, the government had established a program to provide correct information and also to raise awareness via camps and seminars regarding the same.

Through this theme, people across the country including children got to know the benefits of a good nutritional diet right from birth. In the week-long campaign, sub-programs such as Healthy Khayega India, Bharat Poshan Premier Quiz and Good Food Talk Show had people of all age groups taking part in it.

The department of Home Science also celebrated the event.

Most of the activities of the National Nutrition Week 2020 celebration were online due to the Covid-19 pandemic situation.

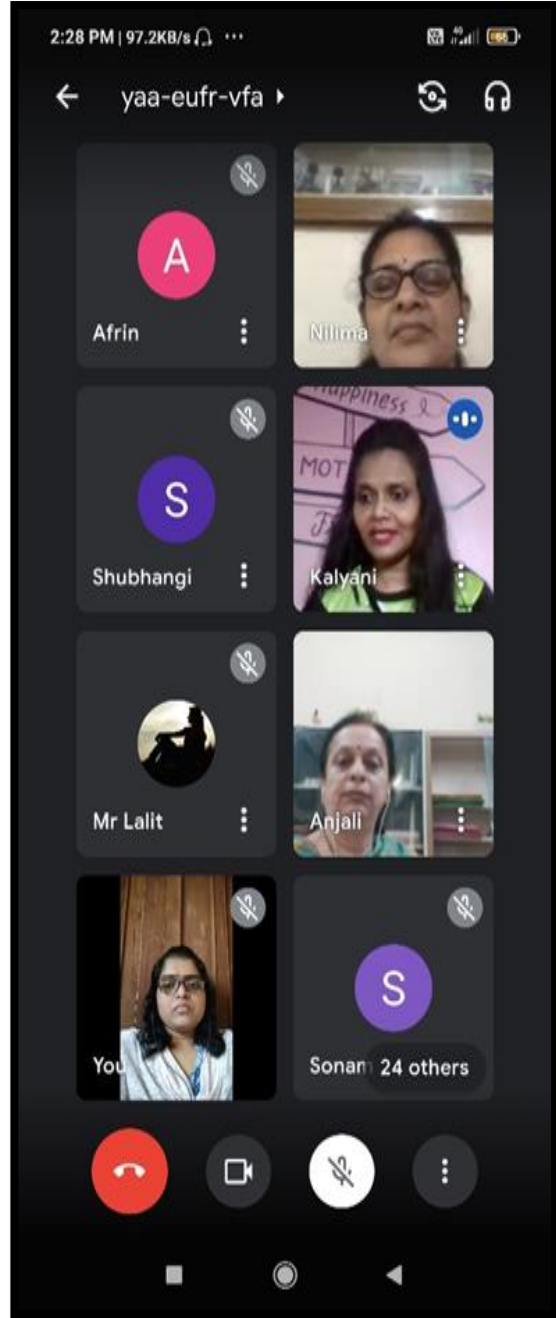
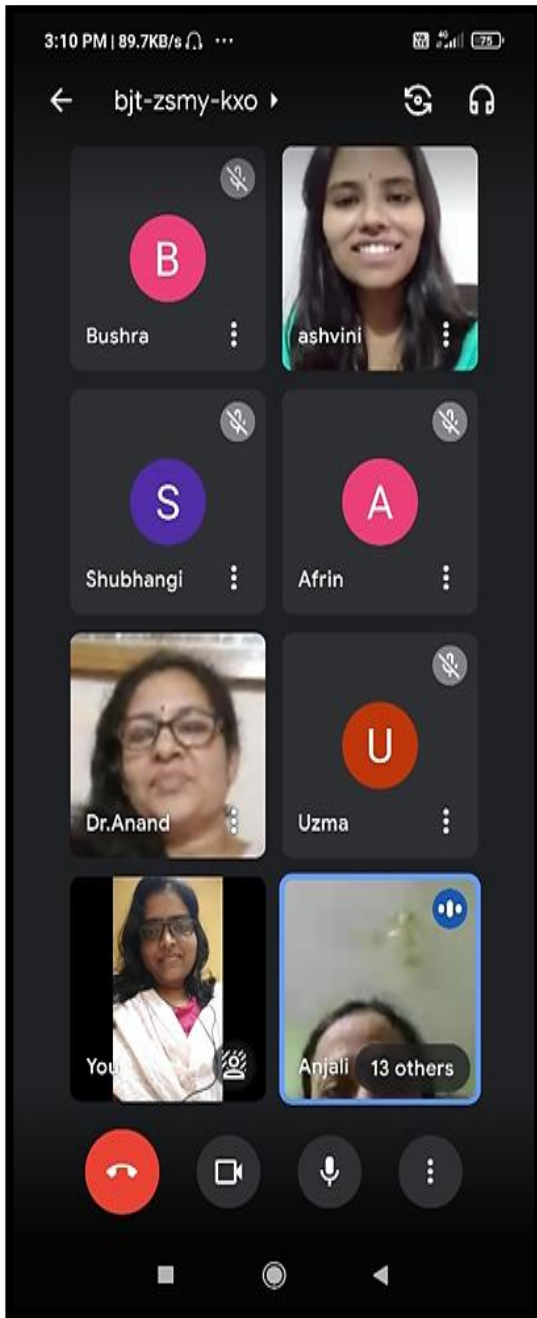
Programme Schedule:

Day	Activity
National nutrition Week – Online Day 1-	1-7 September 2021 1 st Sep –Inauguration Kalyani Killedar- Fitness Trainer and Dietician

Criterion – I- Curricular Aspects [QIM – 1.3.1]

National Nutrition Week – Online Day 2-	Presentation on Nutrition and the importance of food groups by students
National Nutrition Week – Online Day-3	Presentation on Therapeutic Nutrition by students
National Nutrition Week – Online Day-4	Presentation on Clinical Nutrition by students
National Nutrition Week – Online Day-5	Presentation on Micro and Macronutrients by students
National Nutrition Week – Online Day-6	Presentation on experimental cookery by students
National Nutrition Week – Online Day-7	Valedictory programme- Ms. Ashwini Bharsakle

Criterion – I- Curricular Aspects [QIM – 1.3.1]





Shri Shivaji Education Society, Amravati's
**Shri Shivaji College of Arts, Commerce and
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NAAC Reaccredited with "A" grade, College with potential of Excellence, DST FIST
Sponsored, Lead College Status by Parent University

World Wetland Day Celebration- 2021

Interuniversity

"Wetland Photography Competition"



Organized by

Department of Botany

in collaboration with

IQAC



Wetlands take care of water



Shri Shivaji Education Society, Amravati

Shri Shivaji College of Arts, Commerce and Science, Akola



NAAC Reaccredited with "A" grade College with potential of Excellence, DST
FIST Sponsored, Lead College Status by Parent University

Organized by
Department of Botany in collaboration with IQAC

Invitation

Virtual celebration of

World Wetland Day Celebration- 2021
"Interuniversity Wetland Photography Competition"

Joining link for Google meet

<https://meet.google.com/ciq-wppr-qma>

Date- 2nd February 2021 Time - 11: 30 am.


Chair Person
Prof. Dr. R. M. Bhise
Principal
Shri Shivaji College, Akola

Chief Guest
Prof. Dr. A. S. Raut
Coordinator, IQAC
Shri Shivaji College, Akola

Resource person
Dr. Yayati B. Tayde
Associate Dean, Department of Forestry
Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola

Organizing committee

Dr. D. K. Koche Professor	Dr. P. P. Umale Professor & Head	Dr. V. S. Patil Professor
Mr. N. B. Choukhande Assistant Professor	Dr. A. V. Oke Assistant Professor	Dr. P. D. Deshmukh Assistant Professor
Mr. S. A. Rathod Assistant Professor		Dr. R. M. Patil Assistant Professor

	Shri Shivaji Education Society's SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA Near Shivaji Park, Akot Road, Akola-444 003	Dr. Panjabrao Deshmukh Founder President
	NAAC Reaccredited with A Grade (CGPA of 3.24) College with Potential for Excellence (Status by UGC) Lead College (Status by SGBAU, Amravati) DST- FIST Support Ph. (0724) (O) 2433438, (R) 2420396	Shri Harhvardhan Deshmukh President
		Dr. Rameshwar Bhise Principal Ph. (0724) -(O) 2433438 Date 29 / 01 / 2021

INVITATION

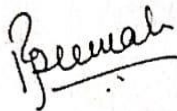
To,
Dr. Sanjay Satpute
 Associate Professor,
 Department of Botany,
 Mahatma Fule Arts, Commerce & Sitaramji Choudhari Science Mahavidyalaya,
 Warud

Dear Sir,

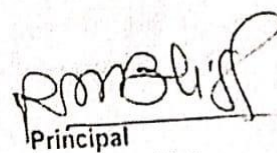
It gives me immense pleasure to invite you as a Jury Member for the "Interuniversity Wetland Photography Competition" on the occasion of virtual celebration of World Wetland Day on date 2nd February 2021 organised by the Department of Botany.

Kindly accept our invitation and grace the function.


Thanking You.



Head
Head
 Department of Botany,
 Shri Shivaji College, AKOLA.



Principal
 Shri Shivaji College, of Arts
 Commerce & Science, AKOLA.
 A Grade CGPA 3.24 by NAAC

	Shri Shivaji Education Society's SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA Near Shivaji Park, Akol Road, Akola-444 003	Dr. Panjabrao Deshmukh Founder President
	NAAC Reaccredited with A Grade (CGPA of 3.24) College with Potential for Excellence (Status by UGC) Lead College (Status by SGBAU, Amravati) DST-FIST Support	Shri Harshvardhan Deshmukh President
	Ph. (0724) (O) 2433438, (R) 2420296	Dr. Rameshwar Bhise Principal Ph. (0724) -(O) 2433438
		Date 29 / 01 /2021

INVITATION

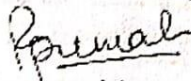
To,
Dr. Yayati B. Tayde
 Associate Dean,
 Department of Forestry
 Dr. Panjabrao Deshmukh Krishi Vidyaapeeth, Akola

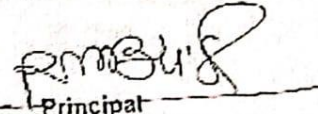
Dear Sir,

It gives me immense pleasure to invite you as a **Resource Person** to deliver the lecture on the occasion of virtual celebration of "World Wetland Day" on date 2nd February 2021 organised by the Department of Botany.

Kindly accept our invitation and grace the function.

Thanking You.


Head
Head
 Department of Botany
 Shri Shivaji College, AMCS, Akola


Principal
 Shri Shivaji College of Arts,
 Commerce & Science, AKOLA.
 A Grade CGPA 3.24 by NAAC

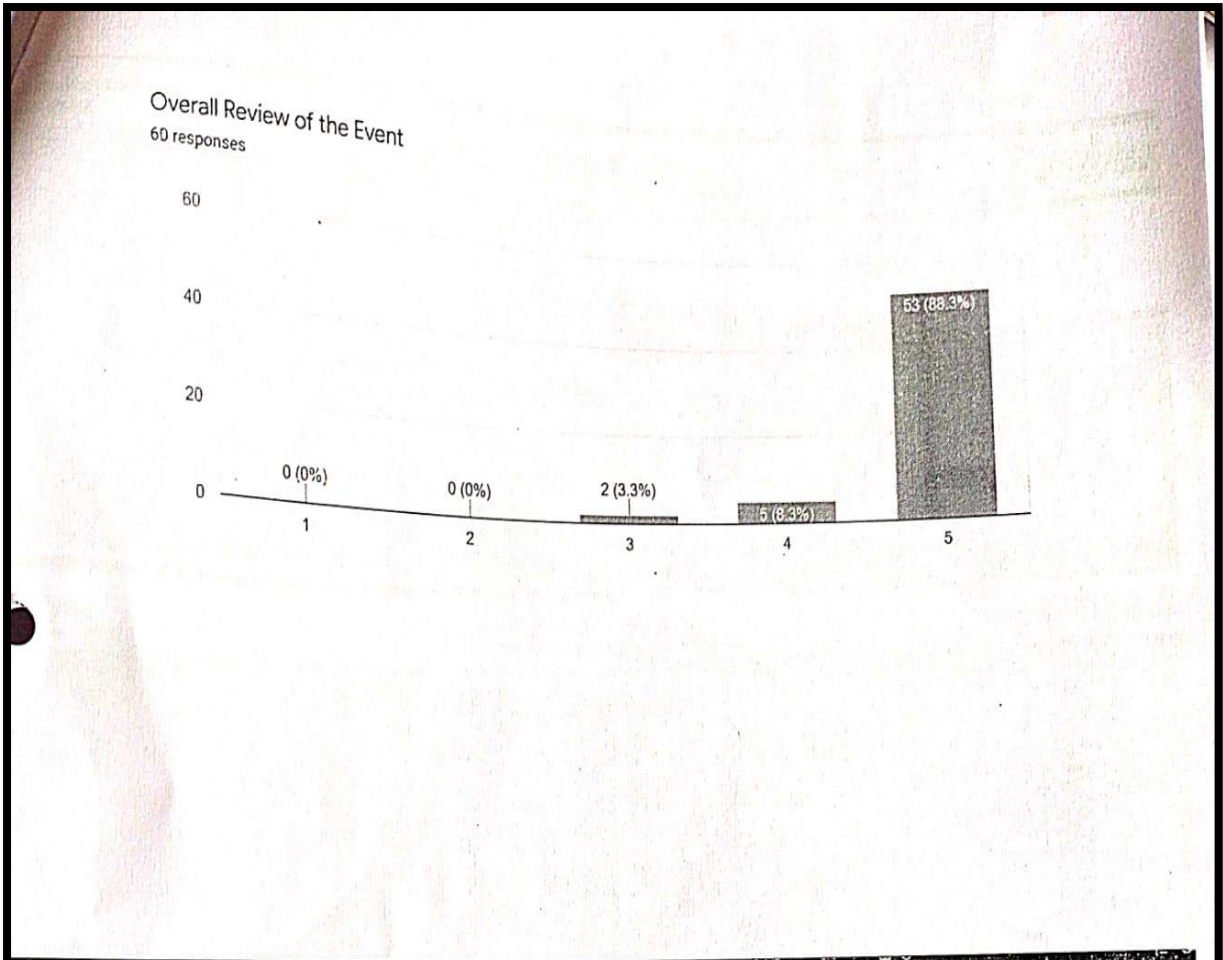
Shri Shivaji Education Society, Amravati
**SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE
 & SCIENCE, AKOLA**

NAAC Reaccredited with “A” grade College with potential of Excellence,
 DST FIST Sponsored, Lead College Status by Parent University
DEPARTMENT OF BOTANY

ATTENDANCE

Sr. No.	Participants	Joined	Left	Duration
1.	Amena Khan	10/19/2020 18:51:22	10/19/2020 19:32:45	00:41:23
2.	Siddiqua Siddiqua	10/19/2020 18:51:22	10/19/2020 19:32:45	00:41:23
3.	Musharaf Syed	10/19/2020 18:51:22	10/19/2020 19:17:28	00:26:06
4.	Afifa tasneem	10/19/2020 18:51:22	10/19/2020 19:32:45	00:41:23
5.	fariya tazeen	10/19/2020 18:51:22	10/19/2020 19:32:45	00:41:23
6.	yash pranjale	10/19/2020 18:51:22	10/19/2020 19:12:45	00:21:23
7.	abhijeet wankhade	10/19/2020 18:51:22	10/19/2020 19:12:45	00:21:23
8.	AMITA SHIRSAT	10/19/2020 18:51:22	10/19/2020 19:32:45	00:41:23
9.	Ankush Nimkarde	10/19/2020 18:51:29	10/19/2020 19:32:45	00:41:16
10.	Ajay Wankhade	10/19/2020 18:51:41	10/19/2020 19:26:45	00:35:04
11.	Anupam Khotre	10/19/2020 18:51:49	10/19/2020 19:32:45	00:40:56
12.	Chaitali Ugale	10/19/2020 18:51:51	10/19/2020 19:32:45	00:40:54
13.	Sana Shaikh	10/19/2020 18:52:08	10/19/2020 19:32:45	00:40:39
14.	Viki Pagrut	10/19/2020 18:52:13	10/19/2020 19:32:45	00:40:32
15.	pragati dhandar	10/19/2020 18:52:18	10/19/2020 19:32:45	00:40:29
16.	sakshi badmera	10/19/2020 18:52:29	10/19/2020 19:32:45	00:40:16
17.	Ankita Tade	10/19/2020 18:52:58	10/19/2020 19:32:45	00:39:49
18.	Akasnsha Gomase	10/19/2020 18:53:01	10/19/2020 19:32:45	00:39:44
19.	Sakshi Thakare	10/19/2020 18:53:08	10/19/2020 19:32:45	00:39:39

20.	Yash Banaitkar	10/19/2020 18:53:19	10/19/2020 19:32:45	00:39:26
21.	priti gawande	10/19/2020 18:53:27	10/19/2020 19:12:45	00:19:18
22.	AKSHAY DHAWALE	10/19/2020 18:53:27	10/19/2020 19:12:45	00:19:18
23.	GAYATRI GOTMARE	10/19/2020 18:53:34	10/19/2020 19:32:45	00:39:11
24.	Mariya Ruheen	10/19/2020 18:53:39	10/19/2020 19:32:45	00:39:06
25.	Kulsum Khan	10/19/2020 18:54:01	10/19/2020 19:32:45	00:38:44
26.	atif Patel Patel	10/19/2020 18:54:13	10/19/2020 19:32:45	00:38:32
27.	sanika ahir	10/19/2020 18:54:28	10/19/2020 19:32:45	00:38:17
28.	Junaid Beig	10/19/2020 18:55:11	10/19/2020 19:32:45	00:37:34
29.	Ashwini Gotmare	10/19/2020 18:55:12	10/19/2020 19:32:45	00:37:33
30.	Mudassir Ahmad Khan	10/19/2020 18:56:17	10/19/2020 19:32:45	00:36:28
31.	Sanjiwani Ubhad	10/19/2020 18:56:37	10/19/2020 19:32:45	00:36:08
32.	bhagyshri Sable	10/19/2020 18:56:37	10/19/2020 19:32:45	00:36:08
33.	Abhijeet Mahore	10/19/2020 18:56:43	10/19/2020 19:32:45	00:36:02
34.	Snehal Rane	10/19/2020 18:56:45	10/19/2020 19:32:45	00:36:00
35.	md shakeer	10/19/2020 18:56:48	10/19/2020 19:32:45	00:35:57
36.	Danish Patel	10/19/2020 18:56:48	10/19/2020 19:32:45	00:35:57
37.	Jay Matre	10/19/2020 18:57:03	10/19/2020 19:32:45	00:35:42
38.	AMRAPALI DANDI	10/19/2020 18:57:21	10/19/2020 19:12:45	00:15:24
39.	TEJSWINI CHAUDHARI	10/19/2020 18:57:31	10/19/2020 19:32:45	00:35:14
40.	Izram Ara	10/19/2020 18:57:55	10/19/2020 19:32:45	00:34:50
41.	Rushikesh Asare	10/19/2020 18:58:01	10/19/2020 19:32:45	00:34:44
42.	Abhijeet Furange	10/19/2020 18:58:09	10/19/2020 19:32:45	00:34:36
43.	Alina Fatema	10/19/2020 18:58:11	10/19/2020 19:32:45	00:34:34
44.	Samiya Khan	10/19/2020 18:58:20	10/19/2020 19:32:45	00:34:25
45.	Vaishnavi shirsat	10/19/2020 18:58:23	10/19/2020 19:32:45	00:34:22



RESULT
of
"Interuniversity
Wetland
Photography
Competition"
2nd February 2021

Faculty Category
First Prize
Dr. Priya Dhabe Madam

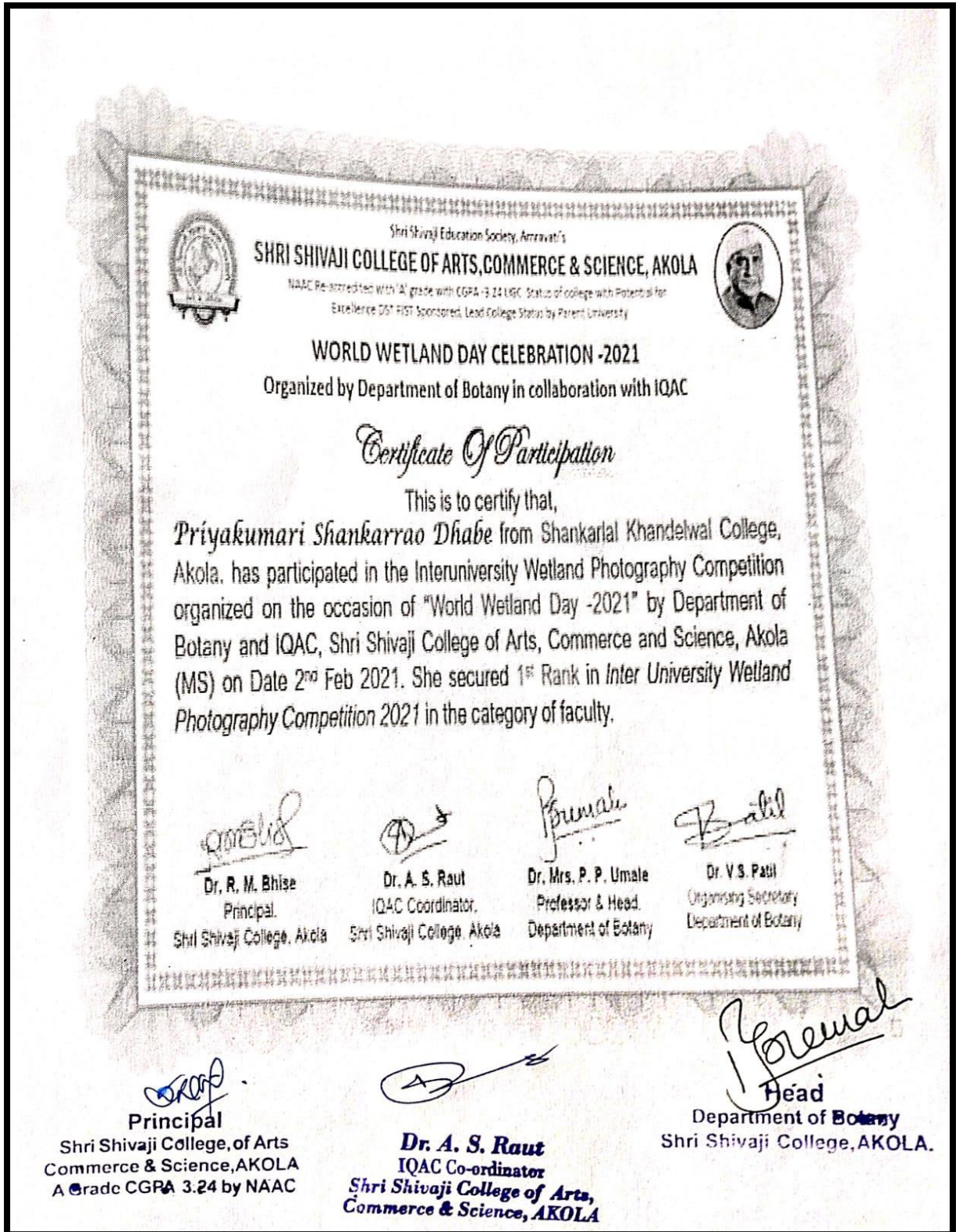
Wetlands are home to variety of living things
Gullarghat - MTS

Second Prize
Dr. Vivek Mule Sir

LOCATION :- RUI TALAV, TQ. DIGRAS, DIST. YAVATMAL.
QUOTE :- WAIT A MINUTE, STOP & THINK, WHAT WE HAVE TO DO, IF WE DIDN'T HAVE ENOUGH WATER TO DRINK.

Third Prize
Dr. Anand Oke Sir

<p>10th student category First Prize Rashmi Chandankhede</p>		<p>Second Prize Dinesh Wankhede</p>	
<p>Third Prize Ram Ladge</p>		<p>First Prize Vedika Warankar</p>	
<p style="text-align: center;">fresh water wetland</p>			
<p>Second Prize Harshel Meshram</p>		<p>Third Prize Hadiya Firdous Khan</p>	
<p style="text-align: center;"> Unlabeled Pond, Chandur, Maharashtra, India Chandur Maharashtra India 39°C 91°F 20/1/2019 10:07:47 AM Co-Ge Wetlands: A natural solution to climate change </p>			



A Report
On
World Breast Feeding Week



Department of Home science
Shri Shivaji College of Arts, Commerce & Science, Akola.

Breast feeding is not only the cornerstone of a child's healthy development: it is also the foundation of a country's development." *UNICEF & WHO WBW message*

Breast feeding gives all human beings the opportunity to have a fair start in life.

1st August to 7th August every year is celebrated around the world as Breast Feeding Week to encourage breast feeding and improve the health of babies around the world.

Importance of breast feeding:

Mother's breast milk helps keep the baby healthy. It supplies all the essential nutrients in the proportions. It protects against diseases, like diabetes and cancer. It is easily digested – no constipation, diarrhoea or upset stomach in baby.

Advantages of Mother's milk:

- 1) Higher content of ascorbic acid and iron.
- 2) Higher content of polyunsaturated fatty acids.
- 3) Higher content of cystine in proteins..
- 4) Low mineral content and low buffering capacity.
- 5) Less load on the kidney.

The Department of Home Science, Shri Shivaji College of Arts, Commerce & Science, Akola celebrates the Breast Feeding week every year to spread awareness about breast feeding and its importance for child's and mother's health.

Here is a report of the celebration.

World Breast Feeding 2016



World Breast Feeding 2016

The theme of World Breast Feeding Week 2016 was on raising awareness of the links between breast feeding and the Sustainable development goals. The slogan for World Breast Feeding Week 2016 was- Breast Feeding-a key to sustainable development.

Programme Schedule

Activity	Participants/Resource person	Date	Beneficiaries
Inaugural function of Breast Feeding Week	Dr. Money Virwani Gynecologist/ Dr.Rothe/ Dr.AshishRaut	1-08-16	Students, staff & women
Guest lecture -Importance of Labeling in purchasing of Food Products	JasleenSahani (Dietitian)	2/08/2016	Students, staff & women
Health Check up of pregnant women in Anganwadi	Dr. PadmavatiKorpe (Gynaecologist)	4/08/2016	Pregnant women
Making of Baby Kits and its Distribution in Aanganwadi	Students and teachers	5/08/2016	Lactating Mothers
Preparation and distribution of Nutritious Ladoo for Lactating Mothers.	Students and teachers	6/08/2016	Lactating Mothers
Valedictory programme	Students and teachers	7/08/2016	Students, staff & women

The programme schedule was followed during the week. Dr JyotiMankar - Head of Department, Dr. Anjali Kaware & Dr. ShreyaChauthaiwale organised the event. Dr NilimaTingre, MonaliMalokar, KrutikaGangde, PoonamBhuiabhar, PriyankaDeshmukh, DeepikaSingla, DeepaliGhatul, NiveditaManikrao, SnehaShahu took efforts to make the week successful.



Inaugural function of Breast Feeding Week



Guest speakers

*Dr. Money Virwani -Gynecologist/ / Dr.AshishRaut-Librarian / Dr.Rothe, Head-
Department of Botany*

World Breast Feeding 2017



World Breast Feeding 2017

The Department of Home science organized *World Breast Feeding week* on 1st to 7th August 2017.

The objectives:

- To understand the importance of breast feeding
- To create awareness about breast cancer.
- To maintain hygiene practices.
- To understand the self examination of breast.
- To gain the knowledge & collect the information about various center like day care center, Anganwadi, PHC ,NGO & Uttkarshbalgruh.

The following programmes were conducted during this week:

- Lecture of eminent doctor
- Preparation of recipes of nutritious supplements.
- Remaking garments for new born
- Visit to Anganwadicenter(Yeota)
- Demonstration on homemade paneer making

1st August 2017

Guest lecture:-

Guest lecture was delivered by Dr Kalpana Bhise ,MD Homeopathy(Gynecologist). She guided and imparted awareness about breast feeding to students, staff and women. She emphasized on following points:

- Why breast feeding is important?
- How to self examine breast, to identify the occurrence of breast cancer.
- How to maintain hygiene during lactating
- Correct position for feeding babies
- Diet and nutrition for lactating mothers



Dr KalpanaBhise , MD Homeopathy delivering the lecture

2nd August 2017

Preparation of nutritious supplements

Students of B.Sc Home science prepared nutritious supplements (laddoos) using the ingredients like dates, groundnut, grated coconut and jaggery for pregnant and lactating women. The activity was conducted by Ms AshwiniBharsakle and Ms. Pranita Rathod and Guided by Dr ShreyaChauthaiwale, Associate Professor-Food Science & Nutrition.



Packing of the nutritious supplements

3rd August 2017

Reusing garments for designing baby wear

The students of Home Science undertook a novel activity of making best out of waste. They designed the baby wear out of used clothes. This activity was guided by Dr Anjali Kaware, Associate Professor-Textile & Clothing. The clothes for new born were donated to orphanage

5th August 2017

Visit to Anganwadi (Yeota village)

Students and staff of Home Science department visited to Yeota Anganwadicentre. They created awareness to pregnant women about breast feeding, and counselling was done about nutrition and diet. Nutritious supplements (laddoos) were distributed to the center.

Other activities at the Anganwadicenter were as follows:

- A film on awareness about breast feeding was given by Dr Nilima Bhoyar, Assistant professor-Food Science & Nutrition.
- A PPT presentation on diet, nutrition and maintaining hygienic condition during breast feeding was given by Post graduate students- Ms Pranita Rathod and Ms Ashwini Bharsakle.
- Demonstration on homemade paneer making was done by Post graduate student- Ms Sayali Nilkanth.

Criterion – I- Curricular Aspects [QIM – 1.3.1]

- Distribution of nutritious supplement to pregnant women by staff and students of Home Science department.





Students and staff of Home Science department visited to Yeota Anganwadicentre

World Breast Feeding 2018



World Breast Feeding 2018

The World Breast feeding week was celebrated keeping in view that mother's breast milk helps keep the baby healthy. It supplies all the essential nutrients in the proportions. It protects against diseases like diabetes and cancer.

The following programmes were conducted during this week:

- Lecture of Doctor
- Students Knowledge Test

Criterion – I- Curricular Aspects [QIM – 1.3.1]

- Display of Poster in Shiv Pratibha-students' activity center
- Visit to Anganwadi(ShivniShivar)
- PPT Presentation on Breast Cancer
- Weaning Food Competition
- Valedictory Function & Celebration of “Handloom Day”



1st August 2018

Inauguration & Guest lecture:-

Guest lecture was delivered by Dr PravinaChaukhande, M.B.B.S DGO (Gynaecologist). She guided and imparted awareness about breast feeding. She emphasised on the following points:

- Why breast feeding is important?
- How to examine our breast.
- How to maintain hygiene during lactating
- Correct position for feeding babies
- Diet and nutrition for lactating mothers



Guest lecture was delivered by Dr PravinaChaukhande M.B.B.S DGO



2nd August 2018

Knowledge Test

Students solved the Knowledge Test. The activity was conducted by Ms Pranita Rathod and Guided by Dr Shreya Chauthaiwale, Associate Professor-Food Science & Nutrition.



Students solving the Knowledge Test

3rd August 2018

Students and staff displayed posters of on the occasion of Breast Feeding Week .
at“Shivpratibha”- students' activity corner .





Students and staff displayed posters of on the occasion of Breast Feeding Week .
at “Shivpratibha”- students' activity corner .

Visit to Anganwadi (Shivani Shivar):

Students and staff of Home Science department visited to “ShivaniShivar” Anganwadi centre to make pregnant women aware about breast feeding. Counseling was done for proper nutrition and diet.

Nutritious supplements (Fruit & Rajeera Ladoo) were distributed.

Poster presentation on diet, nutrition and maintaining hygienic condition during breast feeding was given by Students and teachers.



Visit to Anganwadi (ShivaniShivar)

4th August 2018

PPT Presentation was Breast Cancer



PPT on Breast Cancer was presented by Ms Shital Ghuge .

6th August 2018

Weaning Food Competition was organized by Dr. Nilima Bhojar & Dr. Shreya Chauthaiwale.

7th August 2018

Valedictory programme

Valedictory Function of Breastfeeding Week addressed by Dr. Padmavati Korpe



Mrs. Anjali Suryawanshi, Pranita Rathod, Dr. Nilima Tingre, Ms. Payal Chavan

and Ms. Reshma Parveen worked for the success of the event.

INVITATION CARDS 2018

Sir/Madam: _____

It gives us immense pleasure to invite you for the inaugural Ceremony of “**Breastfeeding Week**” (1st to 7th August 2018.)

Inauguration

By

Hon. Shri Dr. R. M. Bhise

Principal
Shri Shivaji College of Arts, Commerce & Science Akola

Chief Guest

Dr. Pravina Chaukhande, (M.B.B.S M.D.)

Chief Organizer

Dr. Jyoti Mankar
Head, Department of Home Science

Co-ordinator

Dr. Shreya Chauthaiwale
Associate Professor, Food Science & Nutrition

Date: - 1 August

Time: - 1.00 pm

Venue: - Department of Home Science

Programmed Schedule

Date	Guest	Programme
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Criterion – I- Curricular Aspects [QIM – 1.3.1]

1/08/2018	Dr.Pravina Chaukhande, (M.B.B.S. M. D)	Importance of Breastfeeding & issues related to Breastfeeding
2/08/2018	Miss. Pranita Rathod	Students Knowledge Test on Breastfeeding
3/08/2018	Mrs. Anjali Suryawanshi	Display of Poster at “Shiv Pratibha” (A Students activity corner) Visit to “Anganwadi” I.C.D.S Center ShivaniSankul, ShivaniShivar
4/08/2018	Miss. Shital Ghuge	PPT Presentation on Breast Cancer
6/08/2018	Dr. Shreya Chauthaiwale Dr.Nilima Bhoyar	Weaning Food Competition
7/08/2018	-Dr. Anjali Kaware, Associate Professor ,Textile & Clothing -Dr.Padmawati Korpe, M.B.B.S DGO	Valedictory Function & Celebration of “Handloom Day”

World Breast Feeding 2019



WABA | WORLD BREASTFEEDING WEEK 2019

World Breast Feeding 2019

In the year 2019 various Programs were conducted:

- ❖ Guest lecture
- ❖ visit to "Jilha Stri Rugnalaya"
- ❖ Recipe Competition for Lactating and Breastfeeding Mother.
 - ❖ Visit to Patient Mess
 - ❖ Weaning food competition
- ❖ Valedictory function & Celebration of "Handloom Day"

Day 1- Date: 1st August 2019

Guest Lecture

The inauguration of the week was done by Dr.Aarti Kulwar from Lady Harding Hospital &Dr. Aishwarya Paradkar(M.D. GynecologistThe department of home science organized guest lecture on the “Importance of Breastfeeding”.

Dr.Aarti emphasised how important breastfeeding is for mother as well as for the child.

- Mother’s milk contains carbohydrate, protein, vitamin, minerals, digestive enzymes and hormones.
 - She said that “capable parent can grow capable child”.
- She also spoke about how positive family atmosphere affects the health of mother and child.
 - She gave the knowledge about the “Hirkani Kaksh”.
- Exclusive breast feeding to be given for 6 months of life and continued breast feeding up to 2years of age.

Dr Aishwarya focused on the health problems of women and girls .

- She spoke on the importance of breastfeeding to infants.
 - Importance of healthy food and positive environment for lactating mother.
- Information about menstrual cycle and about the hormonal change and problem occurring, such as PCOS.
- Importance of hygiene during menstrual period. For breastfeeding it is important to empty any of the breast milk before starting with another.
 - Breast milk contains 70% of water.
- She also spoke on the consequences which occur before and after pregnancy and the solution over it.

Dr.Aarti kulwar and Dr.Aishwarya Paradkar answered to the queries of the students and women.





Inauguration of the Breast Feeding week 2019

Day 2- Date: 2nd August 2019

Time: 11 am to 1.30 pm

Program: visit to "JilhaStriRugnalaya''

A visit was organized by the Home Science department to the "JilhaStriRugnalaya". The students focused on the following topics:

1. AzalfaKausar: Importance of breastfeeding for both mother and infant.
2. Sakina Gandhi: Benefits of breastfeeding to both mother and child.
3. AlefiyaJawahar: Diet plan for lactating mother.

This session was very informative for all the mothers present over there.

An awareness was created amongst community about the correct nutritional practices and food fads and fallacies. The students also understood the nutritional problems of community and various approaches in nutrition & health interventions, prevention and control measures.



Visit to “Gynaecology Ward of Government Lady Harding Hospital



Presentation to lactating mothers and Interaction session with the help of charts, posters and flash cards

Day 3- Date: 3rd August 2019

Recipe Competition for Lactating and Breastfeeding Mother

Students of participated in this competition and prepared delicious dishes containing nutritive value .

The name of recipes and students participation was as follows-

- Paneer Chilly

1. FatemaKapasi
2. Neha Jain

3. Megha Gupta

- Tomato Soup

1. RutujaKhandare

2. AdinaNaaz

- Vegetables And Fruit Salad

1. MuniraKapasi

2. VinayaKhetkar

- Peanut Dates Laddu

1. AtufaKhan

2. MaddihaFirdaus

- Corn Chaat:

1. IffatKausar

2. JayashreeJamnik



Date: 5th August 2019

Visit to Patient Mess

Visit to “Patients Mess” was organized by Mrs Anjali Suryawanshi, Assistant professor. The interaction session with dietician and students was conducted under the guidance of Dietician Anjali Wagh, Dr. Neelima Bhoyar guided about the whole meal pattern and their distribution, testing and checking for the lactating and pregnant women. The dietician explained the quantities of food and systems of preparation. She explained that the doctors' panel test the whole day meal pattern like nutritive lunch, snacks and dinner and whether it is served according to the schedule time.

Date: 6th August 2019

Weaning food competition for students.

Dr. Shreya Chauthaiwala, Associate professor-Food Science & Nutrition conducted the competition.

The competition was judged by Mrs. Krutika Gangde (Subject expert- KVK Gondiya).

Total 17 students participated in this competition.

Various types of weaning food were prepared containing high nutritive value required for the infants.

Winners of this competition were:

Ist: Sakina .A. Kapasi (M.Sc. nutrition Ist yr.)

IInd: Sakshi Ayachit (M.Sc. nutrition IInd yr.)

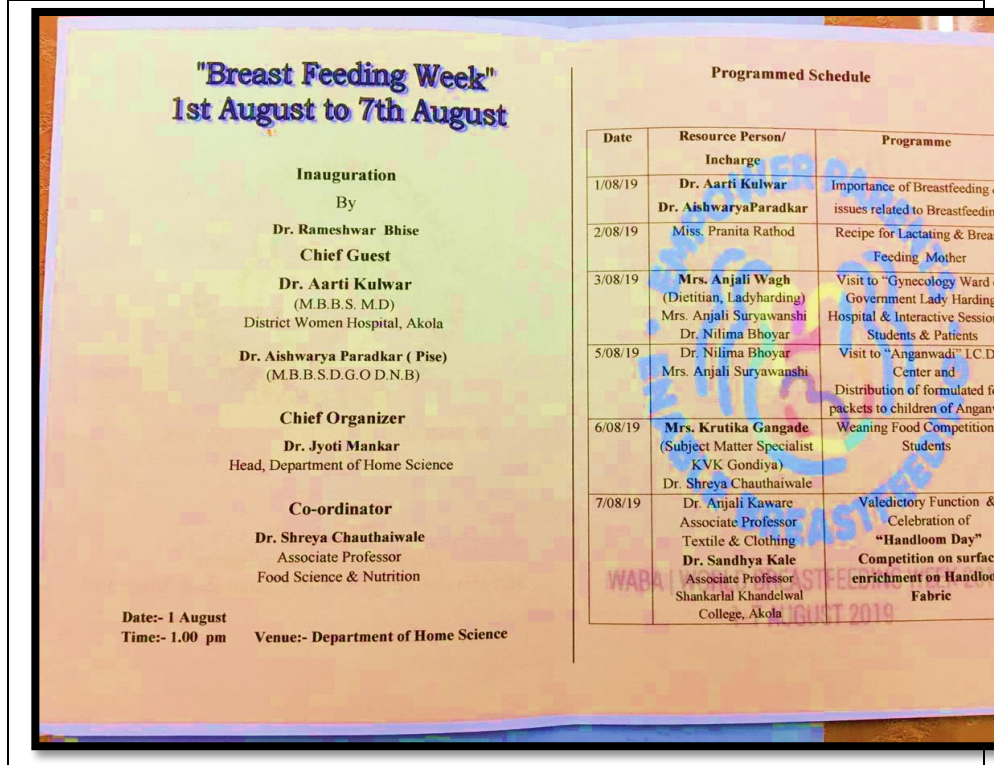
IIIrd: Fatema .A. Kapasi (B.Sc. IInd yr.)



Display and judging of the weaning food recipes

The whole week was very informative and all the students ,staff and community learnt about the importance of breastfeeding through various competition arranged by the department such as weaning food competition, recipe making competition for lactating woman, and also by organizing guest lecture and visits.

Documents of Activities



Media coverage

शिवाजी महाविद्यालयात जागतिक स्तनपान सप्ताह

प्रतिनिधी/२५ ऑगस्ट
अकोला : जागतीक स्तनपान सप्ताहाअंतर्गत १ ते ७ ऑगस्ट दरम्यान स्थानिक श्री शिवाजी महाविद्यालयातील गृहविज्ञान विभागातील विविध कार्यक्रमां राबवून सप्ताह साजरा केला . सप्ताहाच्या उद्घाटनप्रसंगी रुग्णालयातील अधिकांक डॉ . आरती कुलवाल यांचे उद्घाटनपर भाषण झाले . त्यांनी विद्यार्थ्यांच्या प्रश्नांना उत्तरे दिली . याप्रसंगी उपस्थित डॉ . एश्वर्या पराडकर यांचे उद्बोधनपर भाषण झाले. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ . आर . एम . मिस हे होते . गृहविज्ञान विभाग प्रमुख डॉ . ज्योती मानकर यांचे मार्गदर्शनाखाली विभागातील सर्व प्राध्यापिका व विद्यार्थीनींनी कार्यक्रमामाचे आयोजन केले . सप्ताहाचे उद्घाटन यशस्वीरित्या पार पडल्यावर इतर कार्यक्रम राबविण्यात आले. स्त्री रुग्णालयाच्या प्रसुती विभागाला विद्यार्थीनींनी भेट देवून तेथील महीलांशी संवाद साधला तसेच त्यांच्या समस्या जाणून घेतल्या . रुग्णालयाची मेस बघितली व तेथील आवश्यक गोष्टींचा आढावा घेतला . सप्ताहाचे विविध स्पर्धा घेतल्या गेल्या स्पर्धांच्या परिक्षक म्हणून डॉ . प्रतिक्षा कोकाटे व कृत्तिका गांगडे यांनी काम बघितले . सप्ताहा दरम्यान विद्यार्थीनींनी विषयाला अनुसरून स्टडी मटेरिअल बनवले व त्याचा उपयोग विस्तार कार्यासाठी केला. सप्ताहाची सांगता ७ ऑगस्ट रोजी हॅन्डलूम दिवस ' साजरा करून करण्यात आली. डॉ . अंजली कावरे यांचे मार्गदर्शनाखाली हा कार्यक्रम राबवण्यात आला. संपूर्ण सप्ताहामध्ये डॉ. निलीमा टिंगरे, अंजली सुर्यवंशी, प्रणिता राठोड, रेश्मा खान, पायल चव्हाण, रेणु पागृत या सर्वांचे सहकार्य लाभले.




World Breast Feeding 2020



World Breast Feeding 2020

The inauguration of the week was done online due to the Covid-19 pandemic situation.

The theme this year was-'Support Breastfeeding for a healthier planet'.

Breastfeeding provides every child with the best possible start in life. It delivers health, nutritional and emotional benefits to both children and mothers.

Program Schedule

DAY 1, 01-08-2020

Inauguration of Breastfeeding Week.

Join us at 12 Noon DAY 2, 02-08-2020 Poster and Slogan Competition

Incharge :Dr.NilimaBhoyar Contact No. : +918007540125

DAY 3, 03-08-2020

Online Quiz Contest

Incharge :Mrs. Anjali Suryawanshi Contact No. : +919850384001

DAY 4, 04-08-2020

Competition on Weaning Food Preparation (send videos)

Incharge :Dr.ShreyaChauthaiwale Contact No. : +919922587904

DAY 5, 05-08-2020

Distribution of Mask to Lactating Mothers, City Hospital, Washim

DAY 6, 06-08-2020

Competition on diet for Lactating Mothers (send videos)

Incharge :DipaliGhatul Contact No. : +918698208048

DAY 7, 07-08-2020

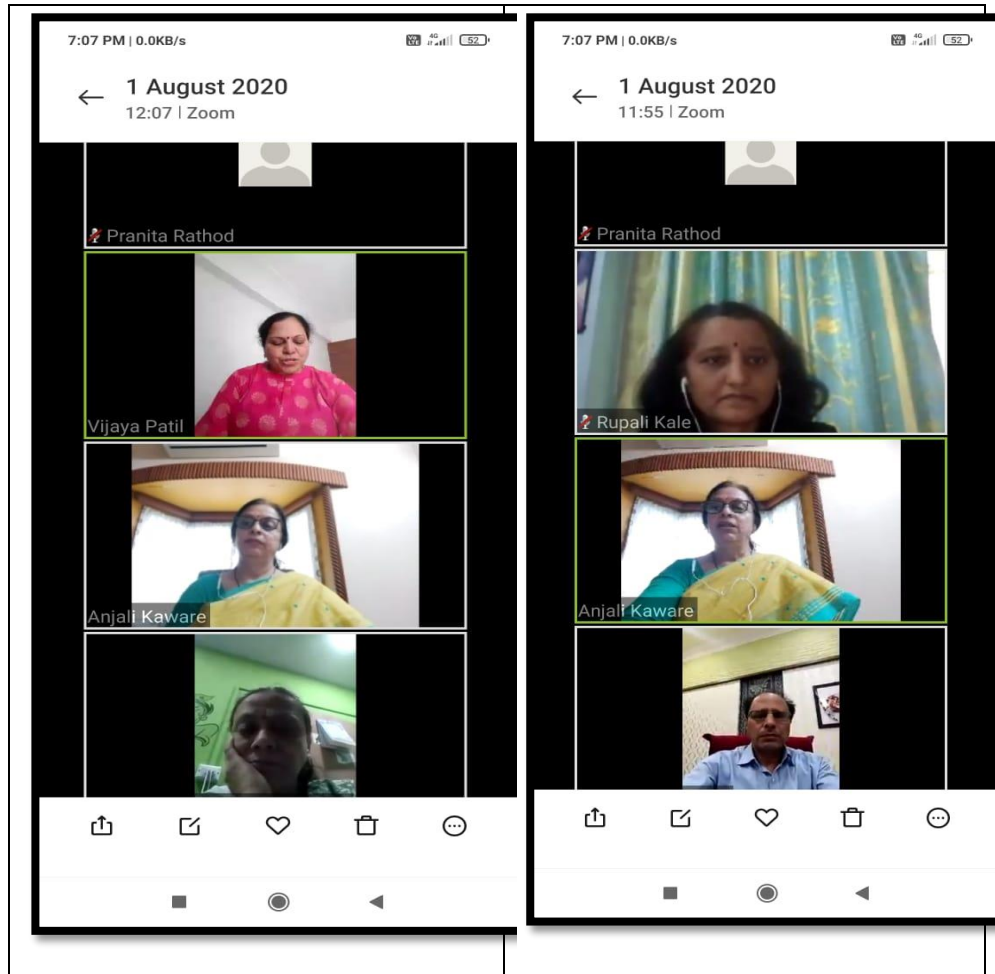
Valedictory Function and Handloom Day Celebration.

Join us at 12 Noon

The video can be viewed on the link –

<http://youtube/HTLmVybZBs>

The inauguration was done by-Mrs Dr Vijaya Sanjay Patil-Managing Director-Heart's Sanjivani Hospital,Nasik



The inauguration was done by – Mrs. Dr. Vijayasanjaypatil. – Managing Director Heart Sanjivani Hospital, Nasik. She expressed her views on mothers health parameters and guided about the importance of breastfeeding.

The poster and slogan competitions was a great success. The best entry was of Dr. Swati Zodape Microbiologist.

The winner of the weaning food preparation videos was Ms. AtufaAsefAnserAhamad.

The winner of the completion on diet for lactating mother was Ms. Vinayakhetkar. Mask were distributed to lactating mothers at civil hospital, washim.

Guest for the valedictory function was mrs.MonaliChvhan. Owner Kemohra designs , Pune.

The videos the competitions can be viewed on the you-tube channel.-

<http://www.youtube.com/channal/UC5UC7-uus5N8ETKobp51erQ>.

World Breast Feeding 2021



World Breast Feeding 2021



1-7 August, 2021

Department of Home Science

Shree Shivaji College of Arts, Commerce & Science, Akola

Breast Feeding week -2021

Event Schedule

Events	Date/Time	Incharge	Activity
Visit at Suryodaya Bal Gruha Malkapur, Akola donations of infant clothes	1st August 12 .30 pm	Radha Kabade, Deepali Ghatul	<ul style="list-style-type: none"> • Finishing & packing of the infant clothes • Distribution to balGruh along with 2 students of M.ScSem II
Quiz on the Breastfeeding	2nd August 12 .30 pm	Radha Kabade	<ul style="list-style-type: none"> • Quiz in Google form with the help of Pranita Rathod & Deepali Ghatul
Inauguration of Programme	3rd August 12 noon	Dr Nilima Bhoyar	<ul style="list-style-type: none"> • Anchoring- Dr Nilima Bhoyar • Introduction-Dr Anjali Kaware • Guest lecture-Dr Saurabh Saraf, Paediatrician • Principal's address-Dr R.M.Bhise • Vote of thanks- Dr Nilima Bhoyar
Video making competition on Protein & Iron	4th of August 12 .30 pm	Dr Nilima Bhoyar	<ul style="list-style-type: none"> • Videos to be selected and uploaded on U tube channel of the department • 1st & 2nd prize to be announced on valedictory

rich recipe			
Video competition on Nutrient rich premix food packet	5th August	Pranita Rathod, Mrs Anjal Suryavanshi	<ul style="list-style-type: none"> • Videos to be selected and uploaded on U tube channel of the department • 1st & 2nd prize to be announced on valedictory
Lecture on , 'Prenatal Development: Foundation of future life', by Rafat Anjum	6th August 12 .30 pm	Dr Nilima Bhoyar	<ul style="list-style-type: none"> • Anchoring Mrs Anjali Suryavanshi • Vote of thanks-Radha Kabade
Valedictory Programme & Handloom day celebration	7th August 12 .30 pm	Dr Nilima Bhoyar, Pranita Rathod, Reshma Parveen	<ul style="list-style-type: none"> • Anchoring- Amol Nagpure, student M.Sc Sem II • Introduction-Dr Anjali Kaware • Guest lecture-Dr Harpreet Kaur, Head, PG Department of Fashion Designing, Govt Kanya Vidyalaya, Jalandhar, Punjab • Announcement of prizes of competitions • Feedback form & Certificate- Deepali Ghatul • Vote of thanks-Sneha Shahu

Invitation card
“Breast Feeding week -2021”
INAUGURATION

Chief Guest

Dr. Saurabh Govid Saraf

MBBS MD (Pediatric Fellowship in Neonatology KEM, Pune)

Chairperson

Dr. R.M. Bhise, Principal,

Shri Shivaji College of Arts, Commerce and Science, Akola

Organizer

Dr. Anjali Kaware, Head,
Department of Home Science

Technical Support

Ms. Rupali S. Kale

Department of Computer Science

Join the whats app group for further communication



Link- <https://chat.whatsapp.com/GprDnNJSJMs111DZZVGBiD>

Registration Link-<https://forms.gle/SMCnrtCiH31whBqVA>

Program Schedule

03/08/2021

Inauguration of Breastfeeding Week. Join us at Noon

Link-

<https://us02web.zoom.us/j/82252217997?pwd=YUxhc3BEQ2M4QUlwdkZwdm5wNHEyQT09>

01/08/2021

Visit at suryodayaBalGruhaMalkapur,Akola
Donation of infant clothes

02/08/2021

Quiz Competition

Link-

<https://forms.gle/E21JxwzxMzrWKSdn8>

04/08/2021

Video Making Competition on protein &Iron rich recipes (Send videos on whats app group)

05/08/2021

Video Competition on Nutrient rich premix food packet (Send videos on whats app group)

06/08/2021

join us at 12.30pm for the

Lecture on ,Prenatal Development: Foundation of Future Life', by RafatAnjum

Link-

<https://us02web.zoom.us/j/82252217997?pwd=YUxhc3BEQ2M4QUlwdkZwdm5wNHEyQT09>

07/08/2021

Join us at 12.30Pm

Valedictory Programme & National Handloom day celebration

Chief Guest-Dr HarpreetKaur, Head, P.G Department of Fashion Designing, KMV,
Jalandhar, Punjab

Link-

<https://us02web.zoom.us/j/82252217997?pwd=YUxhc3BEQ2M4QUlwdkZwdm5wNHEyQT09>



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Late Dr. Panjabrao Deshmukh
Founder President

Hon. Harshvardhan Deshmukh
President

Dr. Rameshwar. M. Bhise
Principal

मातृभूमि

श्री शिवाजी महाविद्यालयात जागतिक स्तनपान सप्ताहाचे आयोजन

अकोला । गृहविज्ञान विभाग श्री शिवाजी महाविद्यालय अकोलातर्फे १ ते ७ ऑगस्ट रोजी जागतिक स्तनपान सप्ताह साजरा करण्यात आला. या कार्यक्रमाचे उद्घाटन डॉ. सौरभ सराफ प्रसिद्ध बालरोग तज्ञ यांनी केले.



याप्रसंगी त्यांनी स्तनपानाचे महत्त्व यावर पावर प्रेझेंटेशनद्वारे त्यांनी सविस्तर माहिती

दिली. कार्यक्रमाचे अध्यक्ष महाविद्यालयाचे प्राचार्य डॉ. रामेश्वर भिसे यांनी अध्यक्षस्थानी आपले मत व्यक्त करताना स्तनपानाचे महत्त्व विशद केले. संपूर्ण आठवडाभर अनेक उपक्रम राबविण्याचा मानस त्यांनी व्यक्त केला. गृहविज्ञान विभागामार्फत विद्यार्थिनींनी सूर्योदय बालगृहांमध्ये शिशुसाठी कपड्यांचे वाटप केले व आरोग्य विषयी जनजागृती केली. किड्नी स्पर्धा, आरोग्य विषयी प्रथिने व लोहयुक्त पदार्थांची व्हिडिओ निर्मिती, पोषणमूल्य प्रिमिक्स फुल पॅकेट व्हिडिओ निर्मिती स्पर्धा, तसेच श्रीमती रफत अंजुम यांचे जन्मपूर्व विकास भावी जीवनाचा पाया या विषयावर व्याख्यान असे विविध कार्यक्रम आयोजित करण्यात आले होते. कार्यक्रमाची सांगता डॉ. हरी प्रीत कौर जालंदर पंजाब यांच्याद्वारे विविध स्पर्धा परीक्षांची बक्षीसे वितरित करण्यात आली. कार्यक्रमाचे आयोजन डॉ. अंजली कावरे गृहविज्ञान विभाग प्रमुख यांनी केले, डॉ. नीलिमा भोर यांनी कार्यक्रमाचे संचालन तर प्रास्ताविक डॉ. अंजली कावरे ह्यांनी केले.

Akola city Edition
Aug 13, 2021 Page No. 1
epaper.dailymatrubhumi.com

20.7.2021

Dear Dr. Saurabh Saraf

We are celebrating International Breast feeding week from 1st to 7th August. This is a regular activity which is now online due to the pandemic situation.

It's our pleasure to invite you as a Guest and speaker for the inauguration of this event. You are requested to speak on the Topic- Breast Feeding - *its importance*. This will be an online session scheduled on 3rd August 2021 from 2 pm to 3 pm. The targeted audience are the college students, Alumni and community.

Your expertise and experience will help the students in their future endeavours. Looking forward to hear you.

Thanking you in anticipation.

Dr Anjali Kaware

Prof & Head
Department of Home Science
Akola.

Dr R.M Bhise

Principal
Shri Shivaji College of
Arts, Commerce & Science,

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA



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Late Dr. Panjabrao Deshmukh
Founder President

Hon. Harshvardhan Deshmukh
President

Dr. Rameshwar. M. Bhise
Principal

To,

The Principal,

Shri Shivaji College of Arts, Commerce and Science, Akola

Sub:-Request for permission

Respected sir,

International Breast feeding week is celebrated all over the world from 1st to 7th August to highlight the contribution of handlooms to the socio economic development of the country. Our department too wishes to celebrate this day to create awareness among the students about the importance of Breast feeding for mother and child.

The day will be celebrated online by organizing various activities online. The chief Guest for inauguration and speaker will be Dr Saurabh Saraf, MBBS MD, Paediatrician.

Kindly grant us permission to organize the same.

Thanking you in anticipation

Yours sincerely

25.7.2021

Dr Anjali Kaware

Head

Department of Home Science

Shri Shivaji College of Arts, Commerce and Science, Akola

5.8.2021

To,

Dr Saurabh Saraf

MBBS MD

Dear Sir,

Our sincere thanks to you for your valuable guidance and inspiring presentation on the occasion of the Inauguration program of International Breast Feeding Week celebration by our institution. We are grateful to you for joining us as a guest and speaker in spite of your busy schedule.

Thank you so much for sharing your time and experiences with us.

Dr Anjali Kaware

Prof & Head
Department of Home Science
College of
Science, Akola.

Dr R.M Bhise

Principal
Shri Shivaji
Arts, Commerce &

Department of Home Science
Shri Shivaji College of Arts, Commerce & Science, Akola

Notice

The event of Breastfeeding Week is organized every year by the Department of Home Science.

A global network that aims to protect, promote and support breast feeding around the world- World Breast Feeding Week begins each year on the 1st August and runs right through until the 7th.

Breast feeding week aims to raise awareness of the health and well-being outcomes of Breast Feeding and the importance of supporting mothers to breastfeed for as long as they wish.

Join us from 1st to 7th August 2021

Dr. Anjali Kaware
Head of Department
Home Science





Visit at Suryodaya Bal Gruha Malkapur, Akola ,donations of infant clothes

Video competition on Nutrient rich premix food packet You-tube Link:-

<https://youtu.be/HDhIQ1I4PQ>

Lapsiprimix

<https://youtu.be/7a64moFNeo8>

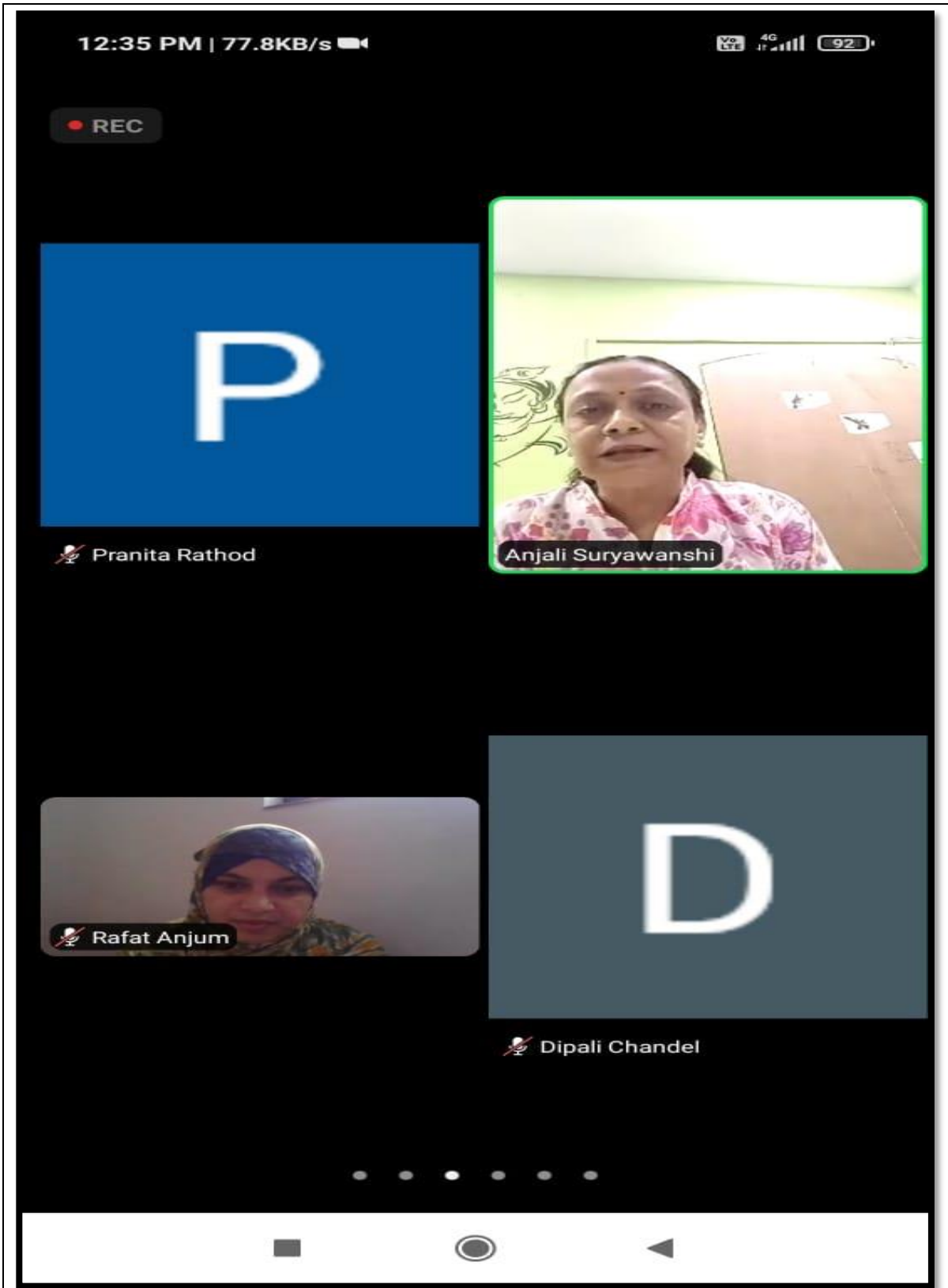
Pancake primix

<https://youtu.be/OPWfHwG2Cpo>

Basundiprimix

<https://youtu.be/IOaZABUIruw>

Rafi barfiprimix



Lecture on , 'Prenatal Development: Foundation of future life', by RafatAnjum

WORLD BREASTFEEDING WEEK

August
1-7



Breastfeeding is not a choice,
its a responsibility

A Report

On

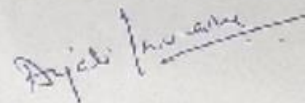
World Breast Feeding Week

Organized By

Department of Home science

Shri Shivaji College of Arts, Commerce & Science,
Akola.

Submitted By



Dr. Anjali Kawate

Head,

Department of Home Science

HEAD

Department of Home Science
Shri Shivaji College of Arts,
Commerce & Science, AKOLA



REPORT OF ONLINE WORKSHOP ON IPR

**Organized IQAC & RAC by Shri Shivaji College of Arts, Commerce and
Science, Akola (MS)**

In collaboration with

**IPR cell (Sponsored by RGSTC, Mumbai), Sant Gadge Baba Amravati
University, Amravati (MS)**

Dated – 20th January 2021

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Internal Quality Assurance Cell (IQAC) and Research Assessment Committee (RAC) of Shri Shivaji College of Arts, Commerce and Science, Akola (MS) in collaboration with IPR cell (Sponsored by RGSTC, Mumbai), Sant Gadge Baba Amravati University, Amravati Maharashtra have organized an online workshop on IPR (Intellectual Property Rights) on dated 20th January 2021. Dr. A. S. Raut, Professor in Library and Information Science Shri Shivaji College, Akola was the Organizer of this event, Dr. D. T. Ingole, Director, Innovation, Incubation and Linkages, Sant Gadge Baba Amravati University Amravati was Coorganizer and Dr. G. V. Korpe, Professor in Chemistry & Director, Research and Extension, Shri Shivaji College, Akola was the convener of this event. The major objectives of this joint venture were-

- 1) To increase the awareness of IPR among the academic and research community in the area.
- 2) To advocate the role of College IQAC & RAC and IPR cell of University to promote/ encourage the researcher/ academicians for IPR
- 3) To resolve the queries of academician/ researchers regarding IPR

The workshop was held online on 20th January 2021 with formal Inauguration of event. More than 270 academicians and researchers were registered as participants for this online workshop. The Inaugural function of this online workshop was chaired by Professor R. M. Bhise, Principal, Shri Shivaji College of Arts, Commerce and Science, Akola. The function begins with the welcome speech of Dr. G. V. Korpe (Convener). He welcomes all the invited guests, resource persons and participants and explain the objectives behind the organization of this workshop. The chief guest of inaugural function of this online workshop Dr. D. T. Ingole, Director, Innovation, Incubation and Linkages, Sant Gadge Baba Amravati University Amravati, while addressing the virtual gathering explains how IPR is important and also through light on the functioning of IPR cell of the Sant Gadge Baba Amravati University, Amravati.

The Inaugural function was followed by illustrative lectures of two resource persons. The two resource persons invited for this online workshop on IPR were- Dr. Mangala Hirwade, Professor in Library and Information Science, Rashtra Sant Tukdoji Maharaj Nagpur University, Nagpur and Dr. Jitendra Edle, Assistant Professor SIPNA college of Engineering and Technology, Amravati and Member IPR cell, Sant Gadge Baba Amravati University, Amravati. Both resource persons have enlightened the participations on various aspects of IPR from basics to prior art search, various patent databases, copyright, trademarks etc. and also included the process of patent filing other related aspects. Both resource persons had also interacted with the virtual gathering of participants and solve their queries.

The presentations of the resource persons were followed by the presidential address by Professor, R. M. Bhise, Principal of Shri Shivaji College of Arts, Commerce and Science, Akola and Chairman of this event.

At the end, Dr. Ashish Raut, Professor & IQAC coordinator, Shri Shivaji Cllege, Akola and organizer of this online event gives formal vote of thanks. In his speech, he express gratitude towards the Dr. D. T. Ingole, Director, Innovation, Incubation and Linkages, Sant Gadge Baba Amravati University Amravati, and Dr. Aniket Gade, Coordinator IPR cell Sant Gadge Baba Amravati University Amravati for accepting the collaboration to organize this online workshop. He also expressed gratitude towards all the members of organizing committee of this online event, all resource persons and all the participants virtually gathered for this event.

This online workshop was coordinated by Dr. Deepak Koche, Professor in Botany, Shri Shivaji College of Arts, Commerce and Science, Akola.


Registration link: <http://forms.gle/6WGBBWpkWtVGWYTe8>

Google meet link: <http://meet.google.com/ncp-efpu-kmp>


YouTube link: <https://youtu.be/u7gqhkWJO8A>

Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA

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 **Late Dr. Panjabrao Deshmukh**
Founder President

Hon. Harshvardhan Deshmukh
President

 **Dr. Rameshwar. M. Bhise**
Principal

Date: 17/01/2021

To,
Dr. D. T. Ingole,
Director, Innovation, Incubation and Linkages &
Chairman, IPR Cell,
S. G. B. Amravati University, Amravati

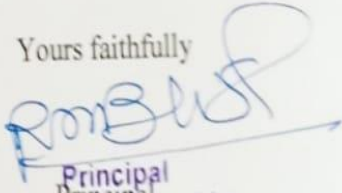
Subject: Request for Collaboration of IPR Cell, SGBAU Amravati to conduct IPR workshop

Respected Sir,

Internal Quality Assurance Cell (IQAC) and Research Activity Committee (RAC) of our college is organizing an online one day workshop on IPR (Intellectual Property Rights) on 20th January 2021. The organizing committee of this event is willing to collaborate with IPR cell of Sant Gadge Baba Amravati University in this organization.

Kindly accept our proposal and oblige.

Thanking in anticipation.

Yours faithfully

Principal
Shri Shivaji College, of Arts
Commerce & Science, AKOLA.
Shri Shivaji College, Akola



Sant Gadge Baba Amravati University

Intellectual Property Right Cell

(Supported by Rajiv Gandhi Science & Technology Commission, Mumbai)

Office: Director of Innovation, Incubation & Linkages

Sant Gadge Baba Amravati University, Amravati 444602

iprcell@sgbau.ac.in

9422157902 / 9422164349

Date : 18 January, 2021

To,
The Principal,
Shri Shivaji College of Arts,
Commerce and Science, Akola,
Akola

Subject : Collaboration for Conducting IPR Workshop

Dear Sir,

With Respect to Your Letter dated 17 Jan., 2021. IPR cell of Sant Gadge Baba Amravati University, Amravati is willing to collaborate for IPR workshop to be conducted on 20th Jan., 2021, by Internal Quality Assurance Cell (IQAC) and Research Activity Committee (RAC) of your College.

Hoping for similar Collaboration with your college in near future

With Regards,

(Dr. A. K. Gade)
Coordinator/ Member Secretary
IPR Cell SGB Amravati University, Amravati.



Shri Shivaji Education Society, Amravati's
**SHRI SHIVAJI COLLEGE OF ARTS,
COMMERCE & SCIENCE, AKOLA**

HMAC Re-accredited with 'W' grade with CGPA - 3.24 UGC Status of College and its Faculty for Excellence
DST FIST Sponsored, Lead College Status by Pimpri University



Online One Day Workshop on **Intellectual Property Rights (IPR)**

Organized by IQAC and RAC

In collaboration with IPR Cell (Sponsored by RGSTC, Mumbai)
Sant Gadge Baba Amravati University, Amravati

For: Academicians, Researchers & Industry Personals
Wednesday, 20th January, 2021 Time 11.45 am
(Free Registrations)

Registration link

<https://forms.gle/6WGBDWpkWtVGVyTe8>

•Resource Persons •



Dr. Mangala Hirwade
Head, Department of Library
and Information Science,
RTM Nagpur University, Nagpur (MS)



Dr. Jitendra Edle,
Assistant Professor,
SIPNA College of Engineering &
Technology, Amravati (MS)

Chairman

Dr. R. M. Bhise

Professor and Principal

Shri Shivaji College Of Arts, Commerce And Science, Akola

Organizer

Dr. A. S. Raut

Professor & Coordinator- IQAC
Shri Shivaji College, Akola

Convener

Dr. G. V. Korpe

Professor & Director, Research & Extn.

Co Organizer

Dr. D. T. Ingole

Director, Innovation, Incubation & Linkages
S.G.B.Amravati University, Amravati

Programme Coordinator

Dr. D. K. Koche

Professor, Department of Botany

-Organizing Members-

Prof. (Dr.) S. G. Shende, Prof. (Dr.) A. M. Raut, Prof. (Dr.) P. P. Umale

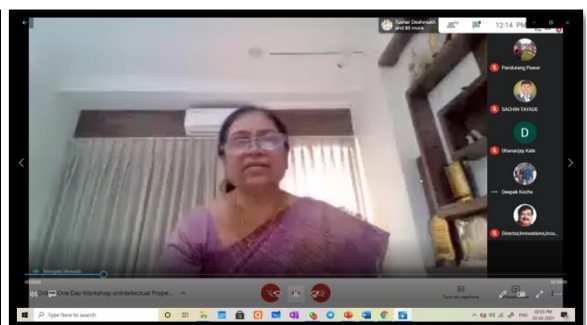
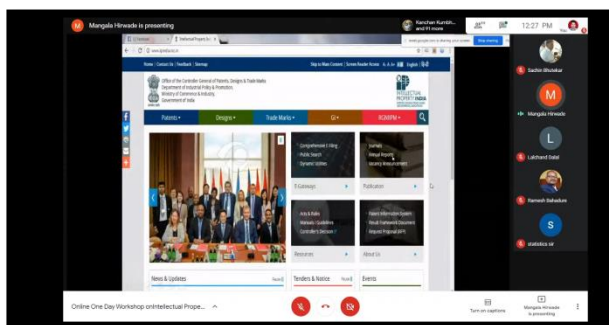
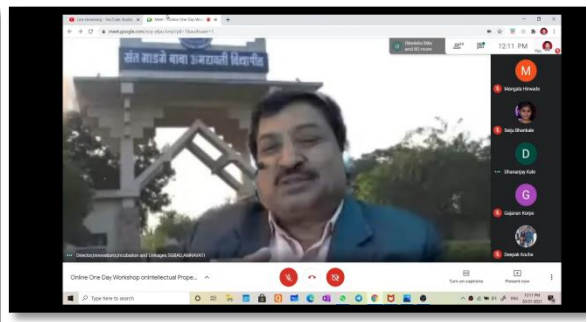
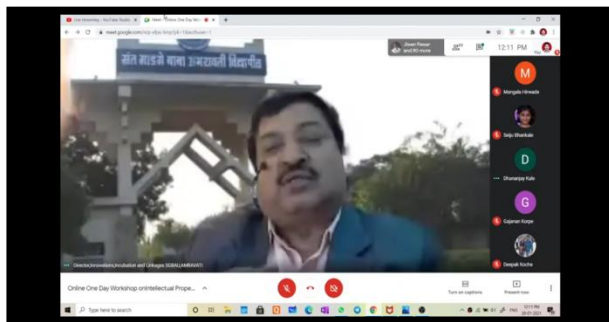
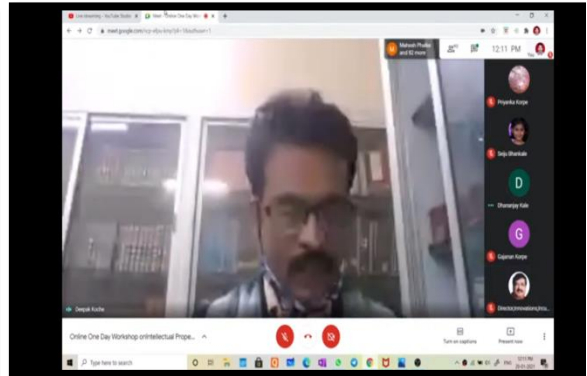
Prof. (Dr.) A. J. Kaware, Dr. S. M. Pathade,

Dr. Shradhha Palli, Dr. Aniket Gade

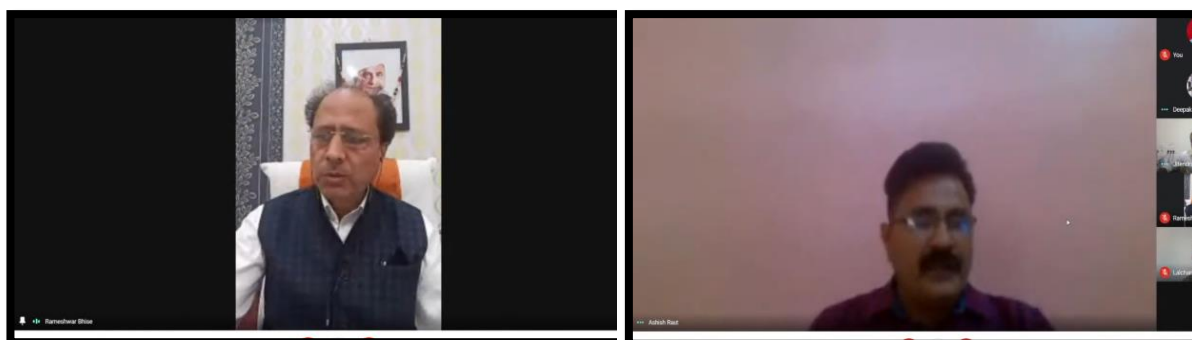
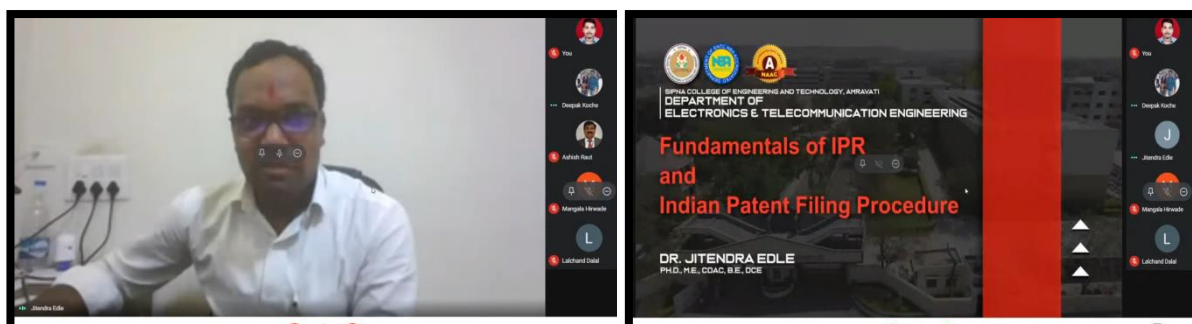
Note

- For joining workshop click on google meet link <https://meet.google.com/nop-efpu-kmp>
- Participant who will be unable to join through google meet link, can join with YouTube link that will be provided immediate after start of the workshop
- E- certificate will be provided to all the participants who will submit their duly filled feedback form. feedback link will be provided at the end of workshop

Glimpses of Online Workshop on IPR



Criterion – I- Curricular Aspects [QIM – 1.3.1]



Sr. No.	Salutation	Full Name of Participant	Category	Name of Institute / College
1.	Professor	Deepak Kewalram Koche	Faculty Member	Shri Shivaji College of Arts, Commerce and Science Akola
2.	Dr.	Rupali P. Shirsat	Faculty Member	Shri Dr R G Rathod Arts and Science College Murtizapur District Akola
3.	Dr.	Kishorkumar B. Bendre	Faculty Member	NYNC College,Chalisingaon
4.	Dr.	Vijigiri Dinesh Gangaram	Faculty Member	S. R. D. Mahavidyalaya, Mahur
5.	Dr.	Dr A A Fulzele	Faculty Member	SMM College of science Nagpur
6.	Dr.	Sachin Natthuji Tayade	Faculty Member	Late Pundalikrao Gawali Arts and Science Mahavidyalaya, Shirpur (Jain)
7.	Dr.	Sanjaykumar R. Rahangdale	Researcher	A. W. College, Otur, Dist. Pune
8.	Professor	Anil Marotrao Raut	Faculty Member	Shri Shivaji College of Arts, Commerce & Science, Akola
9.	Dr.	Yadav Shankar Gopinath	Faculty Member	Shivaji Mahavidyalaya Renapur Dist.Latur
10.	Mr.	Amit A. Jagiya	Faculty Member	Manoharbai Patel College, Sakoli
11.	Dr.	Ravindrakumar Sahebrao Dhande	Faculty Member	Shri R.R.Lahoti Science College, Morshi
12.	Mr.	Shivaji Maroti Shende	Faculty Member	Late Pundalikrao Gawali Arts and Science Mahavidyalaya Shirpur Jain
13.	Dr.	Abhimanyu Maheshwari	Faculty Member	Bajaj College of Science, Wardha
14.	Dr.	Vivek Rambhauji Narkhedkar	Faculty Member	Mahatma Jyotiba Fule Commerce, Science and Vitthalrao Raut Arts College, Bhatkuli.
15.	Ms.	Asst.Prof.M.R.Yeotkar	Faculty Member	Smt.R.S.College,Anjangaon
16.	Dr.	Dr.Sudam Sakharam Bhalerao	Faculty Member	Hu.Bahirji Smarak Mahavidyalay, Basmathnagar
17.	Dr.	Dr. Simeet Subhash Rokade	Faculty Member	Late Pundalikrao Gawali Arts and Science Mahavidyalaya, Shirpur (Jain)
18.	Mr.	Shubham Ashokrao Rathod	Faculty Member	Shri Shivaji College of Arts, Commere and Sience,Akola (MS)

Criterion – I- Curricular Aspects [QIM – 1.3.1]

19.	Dr.	Ninad Dharkar	Faculty Member	S.P.M.SCIENCE AND GILANI ARTS COMMERCE COLLEGE GHATANJI
20.	Ms.	dr.sangeetaVerma	Faculty Member	Government College Manawer Dist Dhar Madhya Pradesh
21.	Ms.	Kanchan Vishramji Kumbhalkar	Faculty Member	Shri Shivaji College of Arts, Commerce and Science,Akola.
22.	Dr.	Dr Nilima Shishir Tidke	Faculty Member	Shri Shivaji College Akola
23.	Mr.	Niteen Mohod	Faculty Member	Shri Shivaji College of Arts Commerce and Science Akola
24.	Mr.	Gaurav Sahebrao Nalwade	Researcher	Colleger of agriculture Patur
25.	Mr.	ZAMIR S SHEKH	Faculty Member	Shri Shivaji College Akola
26.	Mr.	Vaibhav Narayanrao Gulhane	Faculty Member	Mahatma Fule Art's,Commerce and Sitaramji Chaudhari Science Mahavidyalaya, Warud
27.	Dr.	Santosh Madhusing Chavan	Faculty Member	Shri Shivaji College Akola
28.	Professor	Kapila Vishwasrao Mhaisane	Faculty Member	Shri Shivaji College Akola
29.	Dr.	Sanjay Jagdeoraod Tidke	Faculty Member	Shri Shivaji college of Art's commerce and Science Akola
30.	Dr.	Vaishali Shailesh Patil	Faculty Member	Shri Shivaji College of Arts,Commerce &Science Akola
31.	Professor	Dr. Gajanan S. Wajire	Faculty Member	Shri Shivaji College Akola
32.	Professor	Dr. Shrikrishna Bhimrao Sawarkar	Faculty Member	Shri Shivaji College, Akola
33.	Ms.	Mayuri Gudade	Faculty Member	Shri Shivaji College, Akola
34.	Dr.	Ganesh Khekale	Faculty Member	Shri shivaji college of arts commerce and science akola
35.	Ms.	Neha Ramesh Tiple	Researcher	Janata College, Chandrapur
36.	Mr.	Dhiraj Gajanan Akhud	Faculty Member	Smt. Sumitrabai Andhare college of agriculture ,shirla
37.	Ms.	Namrata Haridas Mali	Researcher	Shri Shivaji College of Arts, Commerce and Science,Akola
38.	Dr.	Dr. Anuradha Rameshchandra Rajoria	Faculty Member	Shri shivaji college of Arts, Commerce and Science, Akola
39.	Mr.	Vinay vasant paikine	Faculty Member	Shri Shivaji College of Arts,Commerce&Science,Akola
40.	Professor	Sanjay G Shende	Faculty Member	Shri Shivaji College of Arts,Commerce &Science, Akola.
41.	Professor	Sanjay Keshavrao Kale	Faculty Member	Shri Shivaji college of Art's, Commerce & Science, Akola
42.	Mr.	Ganesh Ramesh Bawane	Faculty Member	Shri Shivaji art's commerce and science College akola
43.	Mr.	Sachin Ramdas Ambaskar	Faculty Member	Anuradha College of Pharmacy Chikhli Dist Buldana
44.	Dr.	Shubhangi Bhagwan Misal	Faculty Member	Shri Shivaji College of Arts,Commerce and Science ,Akola
45.	Ms.	Nupur Deshpande	Researcher	Shri Shivaji College of Arts, Commerce and Science, Akola
46.	Mr.	Gaurav R Deshmukh	Researcher	Dr. Panjabrao Desmukh Medical college Amravati
47.	Ms.	Pradnya Dadarao Ghanbahadur	Researcher	Shivaji college akola
48.	Mr.	Nitin Mahendra Chaware	Faculty Member	VPM Kinhavali, Arts, Commerce and Science College Kinhavali Tal-Shahapur Dist.-Thane.
49.	Ms.	Gayatri Milind Asarkar	Researcher	Shri Shivaji college Akola
50.	Ms.	Rupali Shridharrao Kale	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
51.	Mr.	MOHAMMAD JUNAID MOHAMMAD AKHTAR	Industrial Person	SHRI SHIVAJI COLLEGE OF ART COMMERCE AND SCIENCE AKOLA-444001
52.	Mr.	Sanjay k.salwe	Researcher	Mansi Bharat Gada Degree College of Commerce

Criterion – I- Curricular Aspects [QIM – 1.3.1]

53.	Mr.	Aniruddha Sanjay Dalvi	Researcher	Shri Shivaji College , Akola
54.	Ms.	Anam Fatema Altaf khan	Research	Shri shivaji college akola
55.	Mr.	Sugat Vijayanand Topare	Researcher	Shivaji College of Art, Commerce and Science Akola
56.	Ms.	Taleya Fatema Khan	Researcher	Shri Shivaji College of Arts, Commerce and Science Akola
57.	Ms.	Rasika Dadarao Bhande	Industrial Person	Shri Shivaji college of arts, commerce and science akola
58.	Mr.	Sagar B. Khatale	Faculty Member	KJ Somaiya Institute of Dharma Studies
59.	Ms.	Maheshwari Sontakke	Industrial Person	Shri Shivaji clg Akola
60.	Mr.	DEVENDRA RUPAREL	Researcher	R.T.AYURVED MAHAVIDYALAYA, AKOLA
61.	Ms.	Priya Devlal Shirsat	Researcher	Priya Devlal Shirsat
62.	Dr.	Dr.Swati Nilesh Zodpe	Faculty Member	Shri Shivaji College of Arts,Commerce and Science Akola
63.	Professor	Mahesh Atmaram pawar	Faculty Member	Shri Shivaji college of arts commerce and science Akola
64.	Mr.	Phalke Mahesh Devidas	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
65.	Professor	Sulbha Wasudeo Kharche	Faculty Member	Shri Shivaji College of Arts, Commerce & Science,Akola
66.	Ms.	Anita Balmukund Dube	Faculty Member	Shri Shivaji College of Arts , Commerce & Science , Akola
67.	Dr.	Santosh Govindrao Badne	Faculty Member	Shri Shivaji College of Arts,Commerce and Science,Akola
68.	Ms.	Manisha Shankarrao Pangule	Researcher	Shri Shivaji College
69.	Ms.	Sangita Mahadeo Shegokar	Faculty Member	Shri Shivaji College of Arts, Commerce & Science, Akola
70.	Mr.	Shivdas Rambhau Aher	Faculty Member	M.S.P. Arts Science and K.P.T. Comm. College Manora Dist.Washim
71.	Dr.	Mridul Krishna Ghosh	Principal	VIDYASAGAR TEACHERS' TRAINING COLLEGE
72.	Professor	Ashish Raut	IQAC Coordinator	Shri Shivaji College of Arts, Commerce and Science Akola
73.	Dr.	Dr. Savita Vitthalrao Nichit	Faculty Member	Shri Shivaji College of Arts, Commerce & Science, Akola
74.	Dr.	Atul Vijay Yadgire	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
75.	Dr.	Mona k Patil	Faculty Member	Shri Shivaji College, Akola
76.	Dr.	Dr. Pradhnya Ganesh khapekar	Faculty Member	Jagadamba Mahavidyalaya Achalpur
77.	Dr.	Dr.Praveenkumar Narayanrao Nasare	Faculty Member	Nilkanthrao Shinde Science and Arts College,Bhadrawati,Dist-Chandrapur442902
78.	Mr.	Umesh j Gawande	IQAC Coordinator	Shri Sant Gajanan Maharaj Art'College Borgaon Manju
79.	Ms.	Pratiksha kishor thakare	Faculty Member	Shri shivaji collage of art, commarce and akola
80.	Ms.	Pratiksha Prakashrao Deshmukh	Researcher	Shri Shivaji Collage Akola
81.	Dr.	Dr. Shraddha Dharmendra Thorat	Faculty Member	Shri Shivaji College of Arts, Commerce & Science
82.	Dr.	Mrunal Prabhakarrrao kadu	Faculty Member	J. D. Patil Sangludkar college Daryapur
83.	Ms.	Vaishali Gopal Dhabale	Researcher	Shivaji college Akola
84.	Ms.	Ujwala Vinayak Deorankar	Researcher	Tai Golwalkar Mahavidyalaya
85.	Ms.	Priyanka Bhatewara Jain	Faculty Member	Government College Manaver Dhar Madhya Pradesh
86.	Dr.	Ajaykumar G. Jadhav	Faculty Member	Government Institute of Science Aurangabad
87.	Dr.	Dr. Ravi Narayan Khade	Faculty Member	Late Pushpdevi Patil Arts and Science college risod
88.	Dr.	Dr. Rahul Pundlikrao Bhagat	Faculty Member	Government Institute of Science, Aurangabad

Criterion – I- Curricular Aspects [QIM – 1.3.1]

89.	Mr.	AMOL BHAUDAS MESHRAM	Faculty Member	SN ARTS AND UK COMMERCE COLLEGE AKOLA
90.	Dr.	Ramesh Bhimrao Bahadure	Faculty Member	Shri Vasantrya Naik Mahavidyalaya Dharni Dist Amravati PIN 444702
91.	Dr.	Santosh Wamanrao Suradkar	Faculty Member	Ghulam Nabi Azad College Barshitaki.
92.	Dr.	Dr.Rajesh Shrirangrao Gaikwad	Faculty Member	Swami Vivekanand Senior College Mantha Dist Jalna Maharashtra
93.	Professor	Dr Vinod Mahadeora Patil	Faculty Member	Shri Shivaji College Akola Maharashtra
94.	Professor	Digambarkumar Landge	Faculty Member	Shri saraswati college of social work, washim
95.	Dr.	Dr. Lalchand P. Dalal	Faculty Member	Bajaj College of Science, Wardha
96.	Professor	Dr Pratiksha Prakash Umale	Faculty Member	Shri Shivaji college of Arts, Commerce and Science,Akola
97.	Dr.	Nutan Rajput	Faculty Member	Govt. College Manawar
98.	Dr.	Kavita Kirdak	Faculty Member	S.p.m.gilani college ghatanji
99.	Dr.	Varsha Dinkarrao Hutke	Faculty Member	Govt. Vidarbha institute of science and humanities, Amravati
100.	Dr.	PRASHANT DILIP DESHMUKH	Faculty Member	SHRI SHIVAJI COLLEGE OF ART'S COMMERCE AND SCIENCE AKOLA
101.	Dr.	Rasika Narayan Patil	Faculty Member	Shri Shivaji College of Arts Commerce and Science Akola
102.	Mr.	Mushtaq ahmad dar	Researcher	Government vidharbha institute of science and humanities Amravati
103.	Dr.	Sanjay Madhaora Deosthale	IQAC Coordinator	B. B. Arts, N. B. Commerce and B P Science College Digras Dist-Yavatmal
104.	Mr.	PRAMOD UTTAMRAO INGLE	Researcher	Nanobiotechnology lab, Department of Biotechnology
105.	Mr.	Abhinav Nitin Sarode	Researcher	Vasantrya Naik college of Agricultural Biotechnology
106.	Ms.	Manisha D.Khemnar	Faculty Member	Navsahyadri Institute of Pharmacy, Pune
107.	Mr.	Mr.Ankur Agrawal	Faculty Member	Shri RNS institute of pharmaceutical science and technology Gwalior mp
108.	Dr.	Chandra Shekhar Tailor	Faculty Member	School of Pharmaceutical Sciences, Shri Guru Ram Rai University, Dehradun
109.	Mr.	Yogesh Dashrath Naik	Researc	College of Agricultural Sciences Dharwad
110.	Dr.	Roshan Maroti Shinde	Faculty Member	Vasantrya Nail College of Agricultural Biotechnology Yavatmal
111.	Dr.	Raksha Pandit	Faculty Member	LAD college Nagpur
112.	Ms.	Divya Arora	Faculty Member	Dreamz College of Pharmacy
113.	Professor	Manish R Bhise	Faculty Member	Dr.Rajendra Gode college of pharmacy, Malkapur
114.	Ms.	Vidyadevi T Bhojar	Researcher	University department of pharmaceutical sciences, RTMNU nagpur
115.	Ms.	Mrs. Mona A. Gupta	Faculty Member	Shri sarvajanik pharmacy college
116.	Ms.	Bhagyashree Kokate	Researcher	Department of Pharmaceutical sciences,RTMNU,Nagpur
117.	Mr.	Tushar Prakash Bagul	Faculty Member	Loknete Dr J D Pawar College of Pharmacy, Manur.
118.	Ms.	Isha Subhash Nagwanshi	Researcher	Shri. Shivaji College of Science, Akola
119.	Mr.	Gopal Narayan Dhobale	Researcher	Shri Shivaji College Akola
120.	Ms.	Vaishnavi purushottam sawkare.	Industrial Person	Department of pharmaceutical sciences RTMNU ,NAGPUR
121.	Dr.	Dr.Veena S. Belgamwar	Researcher	University Department of Pharmaceutical Sciences RTM Nagpur University,Nagpur
122.	Mr.	MR.PURKAR SANDEEP R.	Faculty Member	SIR Dr.M.S.Gosavi College of Pharmaceutical Education & Research,Nashik-422005.

Criterion – I- Curricular Aspects [QIM – 1.3.1]

123.	Mr.	Manish Anant Kamble	Faculty Member	Kamla Nehru College of Pharmacy Butibori Nagpur
124.	Mr.	Eknath Mahadeorao Bhankale	Faculty Member	Vasantrao Naik College of Agricultural Biotechnology, Yavatmal
125.	Ms.	Pooja Kathare	Researcher	Indira Gandhi Krishi Vishwavidyalaya Raipur Chhattisgarh India
126.	Mr.	Awdhut Pimpale	Faculty Member	Datta Meghe College of Pharmacy, Wardha
127.	Dr.	Hemlata Mor	Faculty Member	Shri Shivaji College of Commerce , Akola
128.	Mr.	KUNJBIHARI	Researcher	Collage of agriculture Raipur
129.	Ms.	Tejaswini Shravan Selwate	Researcher	School of pharmacy
130.	Mr.	Avinash Shankar Ghuge	Researcher	Vasantrao Naik college of biotechnology Yavatmal
131.	Ms.	Suhasi	Industrial Person	Sri kv college of pharmacy
132.	Ms.	Brunnda MA	Researcher	Sri kv college of pharmacy
133.	Ms.	Jagruthi.v	Researcher	Sri kv college of pharmacy
134.	Ms.	Geetha P	Researcher	Sri k v college of pharmacy chikkabalapura
135.	Ms.	Bindu shree S P	Industrial Person	Sri K V college of pharmacy
136.	Ms.	Savitha T S	Researcher	Sri kv collage pharmacy
137.	Ms.	Shravani b.v	Research	Sir k.v college of pharmacy
138.	Ms.	Thanushree. R	Researcher	Sri kv clg of pharmacy
139.	Ms.	Raheela khanum	Researcher	Sri kv college of pharmacy
140.	Ms.	Vasanthalakshmi B.V	Industrial Person	Sri KV college of pharmacy
141.	Dr.	Abdul Wajid Abdul Razique	Faculty Member	Shri Shivaji College of Arts, Com and Sci, Akola
142.	Dr.	Dr. Manisha Sureshchandra Araj	Faculty Member	Shri Nathmal Goenka Law College Akola
143.	Ms.	DIVYA M	Researcher	Sri K v college of pharmacy
144.	Ms.	Rutuja Jadhav	Researcher	University department of pharmaceutical sciences Nagpur
145.	Ms.	Lopmudra Sarode	Researcher	Department of Pharmaceutical Sciences
146.	Mr.	Digvijay Mahesh Baravkar	Researcher	University Department of pharmaceutical sciences
147.	Dr.	Milind Rajesh Belkhedkar	Faculty Member	Shri Shivaji College of Arts Commerce and Science Akola
148.	Mr.	Mohammad Roshan Mujibur Raheman Khan	Researcher	Vasantrao naik college of agricultural Biotechnology Yavatmal 445001
149.	Mr.	Rajkumar V Salodkar	Faculty Member	Shri Shivaji college of Arts, Commerce and Science,Akola
150.	Ms.	Mayuri Rohidas Khule	Researcher	Department of pharmaceutical sciences, Nagpur University, Nagpur
151.	Dr.	Dewal Sureshrao Deshmukh	Faculty Member	Shri Shivaji College of Arts, Commerce and Science Akola
152.	Dr.	Ujwala Pradip Lande	Faculty Member	Shri Shivaji College of Arts Commerce and Science Akola
153.	Mr.	Nitin Ashokrao Deshmukh	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
154.	Mr.	Pandurang Balasaheb Pawar	Faculty Member	Shri Vyankatesh Arts, Commerce and Science College, Deulgaon Raja
155.	Mr.	Sanket Anil Rathod	Researcher	Sant Gadge Baba Amravati University
156.	Ms.	Chaitra.S	Researcher	Sri KV college of Pharmacy
157.	Dr.	Amar Nath Singh	Faculty Member	A.N. College, Dumka, Jharkhand
158.	Ms.	Chandini. M	Researcher	Sri Kv College of pharmacy
159.	Ms.	Punam Dilip Bagad	Faculty Member	GES's Sir Dr. M.S.Gosavi College of Pharmaceutical Education & Research, Nashik
160.	Dr.	Dr. Riti Thapar Kapoor	Faculty Member	Amity Institute of Biotechnology

Criterion – I- Curricular Aspects [QIM – 1.3.1]

161.	Mr.	Pravin Vilas Nimgade	Researcher	Vasantrao Naik College of Agricultural Biotechnology, Yavatmal
162.	Professor	Rameshwar Marta desi Bhise	Principal	Shri Shivaji College of Arts Com And Science Akola
163.	Ms.	Anjali Mahesh Gaharwar	Faculty Member	Vasantrao Naik College of Agricultural Biotechnology, Yavatmal
164.	Professor	Dr.Vivek Haribhau Hiware	Faculty Member	Shri Shivaji College Akola
165.	Dr.	DR. RACHANA R. PACHORI	Faculty Member	R.A.Mahavidyalaya, Washim
166.	Ms.	Mitali Ashok Rahate	Researcher	Vasantrao Naik college of Agricultural Biotechnology yavatmal
167.	Dr.	Kapil Devidas Kamble	Faculty Member	Dept of Microbiology, SGBAU, Amravati
168.	Mr.	Tushar Murlidhar Nichat	Researcher	Vasantrao Naik college of Agricultural Biotechnology, Yavatmal
169.	Ms.	Suvarna Jagannath Shelke	Faculty Member	SMBT College of Pharmacy
170.	Mr.	SUDHIR AWACHITRAO PATIL	Faculty Member	College of Agriculture Nagpur
171.	Ms.	Veena v	Industrial Person	Sri K V College of Pharmacy
172.	Mr.	SANTOSH AWACHITRAO PATIL	Researcher	Oilseeds Research Centre
173.	Mr.	Mr Arvind kanwate	Faculty Member	Shri vyankatesh college Deulgaon Raja
174.	Ms.	Utkarsha Rajendra Nimbalkar	Researcher	Department of Biotechnology, SGBAU
175.	Mr.	Pavankumar Motigir Giri	Faculty Member	Shri Shivaji College of Arts Commerce and Science, Akola
176.	Professor	Prakash Pirasing Ade	Faculty Member	Shri Shivaji College of arts commerce and science Akola
177.	Dr.	Dr Ashwini A Balode	Faculty Member	Shri Shivaji College of Arts,Commerce and Science Akola
178.	Dr.	Gajanan Wasudeorao Belsare	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
179.	Professor	Dhananjay panjabrao kale	Faculty Member	Shri Shivaji Arts,comments.and science college, Akola
180.	Mr.	Ajay B. Kukade	Faculty Member	Shri Shivaji College of Arts, Commerce & Science, Akola
181.	Professor	Anil M Metkar	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
182.	Mr.	Saurav gajanan shegokar	Researcher	Sant gadge baba amaravati university
183.	Dr.	Jaishree Vivek Bhale	Faculty Member	Shri Shivaji college of Arts,Commerce and Science, Akola
184.	Dr.	Nikhil Agrawal	Faculty Member	B.S.Patel Arts, Commerce and Science College, Pimpalgaon Kale
185.	Mr.	Vishal Vijay Korde	Faculty Member	Shivaji College Akola
186.	Dr.	Priyanka Manohar Ramteke	Faculty Member	Shri Shivaji Art,Commerce and Science College Akola
187.	Professor	Mrs Archana Sudhir Pethe	Faculty Member	Shri Shivaji College Akola.
188.	Ms.	Amrutha hs	Faculty Member	Sri kv college of pharmacy
189.	Mr.	Bhavin Pandya	Faculty Member	Babaria Institute of Pharmacy
190.	Dr.	Rupali Gajanan Korpe	Faculty Member	Shri Shivaji College of Arts, Commerce and Science Akola
191.	Dr.	Anand Vivek Oke	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
192.	Professor	Dr. Anjali Jayant Deshmukh	Faculty Member	SSHri Shivaji College of Arts,Commerce and Science
193.	Professor	Nanachand T.Wankhade	Faculty Member	Shri shivaji Arts commerce and science college Akola
194.	Dr.	Sudhir Sureshrao Shende	Researcher	Department of Biotechnology

Criterion – I- Curricular Aspects [QIM – 1.3.1]

195.	Dr.	RADHIKA G Deshmukh	Faculty Member	Shri shivaji college of arts commerce and science Akola
196.	Dr.	Umesh Bhaurao Ghodeswar	Researcher	Shri Shivaji College of Arts, Commerce & Science Akola
197.	Professor	Sanjay Trimbakrao Khadakkar	Faculty Member	Shri Shivaji college of Arts, Commerce & Science, Akola
198.	Mr.	Santosh Umakant Pastapure	Faculty Member	Shri.Shivaji college of Arts, Commerce and Science, Akola
199.	Mr.	Ganesh Dnyaneshwar Gaikwad	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
200.	Mr.	SACHIN SUBHASHRAO BHUTEKAR	Faculty Member	SHRI SHIVAJI COLLEGE OF ARTS,COMMERCE & SCIENCE,AKOLA.
201.	Ms.	Ananya Sarkar	Faculty Member	Nagar College
202.	Dr.	Mamata T. Sangole	Faculty Member	Shri Shivaji College ,Akola
203.	Professor	Ramjan Mahamuddin Mulani	Faculty Member	School of Life Sciences, Swami Ramanand Teerth Marathwada University Nanded
204.	Dr.	Sharayu Manoj Thorat	Faculty Member	Shri Shivaji College,Akola
205.	Ms.	Megha Pankaj Ambatkar	Researcher	Department of Pharmaceutical Sciences, Nagpur
206.	Dr.	Dr Vaishali Mune	Researcher	Shri Shivaji college of art, commerce & science, Akola
207.	Mr.	SACHIN KANIRAM RATHOD	Researcher	Shri shivaji college akola
208.	Mr.	Nikhil Choukhande	Faculty Member	Shri Shivaji College Akola
209.	Dr.	Dr. Anand Rangrao Sarode	Faculty Member	Government College of Dairy Technology, Pusad
210.	Professor	Bharat Raghunath Nagare	Faculty Member	Shri Shivaji Arts,Commerce and Science College, Akot.
211.	Ms.	Gauri R. Argulwar	Researcher	Vasantrao Naik college of agricultural biotechnology, yavatmal
212.	Ms.	Miss. Rakhi. D. Bankar	Faculty Member	SHRI SHIVAJI COLLEGE OF ART'S, COMMERCE AND SCIENCE, AKOLA
213.	Professor	Dr Anjali Kaware	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
214.	Mr.	Hashwardhan Mankar	Faculty Member	Shri Shivaji College of Arts Commerce and science Akola
215.	Mr.	Nitin Vijayrao Ingole	Researcher	Department of Biotechnology
216.	Professor	Rahul Babarao Mohod	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola
217.	Dr.	Dr.Vanita tukaramji bhopat	Faculty Member	Shri Shivaji College of arts, commerce and science,akola
218.	Dr.	Archana Narayan Dharme	Faculty Member	Smt P D Patil Social Work college Khadaki Akola
219.	Dr.	Hemant p sapkal	Faculty Member	Shri shivaji college of arts,commerce and science,akola
220.	Dr.	Dr Monali M Mhasal	Faculty Member	Shri Shivaji College of Arts Commerce and Science, Akola
221.	Mr.	Sanjiv Murlidhar Patil	Faculty Member	Shri Shivaji College of Arts,Commerce and Science,Akola
222.	Mr.	Balaji Suresh Ingawale	Researcher	Vilasrao Deshmukh College of Agricultural Biotechnology, Latur
223.	Professor	Lata Chandrakant potey	Faculty Member	School of pharmacy, G. H. Rasoni University, Saikhera, M.P.
224.	Dr.	Dr. Prajakta Vinayakrao Pohare	Faculty Member	Shri Shivaji College Akola
225.	Mr.	Pallavi Panjabrao Deshmukh	IQAC Coordinator	Shri Shivaji college akola
226.	Mr.	Dattakumar Bapurao Bharsakale	Faculty Member	Shri Shivaji College of Arts, Commerce and Science AkolaS
227.	Dr.	Vikas Pralhadrao Sawant	Faculty Member	Dr. Haribhau admane arts and commerce college, saoner. .

Criterion – I- Curricular Aspects [QIM – 1.3.1]

228.	Dr.	Sanjay M. Palhade	Faculty Member	Shri Shivaji College of Arts Commerce and Science Akola
229.	Dr.	Jiwan Hanjari Pawar	Faculty Member	Shri Shivaji College of Arts, Commerce and Science, Akola.
230.	Ms.	Vaishnavi Govindrao Lahane.	Researcher	Shri Shivaji college of Art's commerce and science akola
231.	Dr.	Sopan Sitabrao Watare	Faculty Member	Shri Shivaji college of Arts, Commerce & Science, Akola
232.	Ms.	Lavanya.M	Industrial Person	Sri kv college of pharmacy
233.	Ms.	Chaitra. V	Faculty Member	Sri K.v college of pharmacy
234.	Mr.	Suhas Shivajirao Khandare	Faculty Member	Shri Shivaji college of Humanities, Commerce & Science, Akola
235.	Ms.	Minakshi Tulshiram Sarode	Faculty Member	Shri Shivaji Arts, Commerce & Science College, Akot
236.	Mr.	Ajit Laxmanrao Tarale	Researcher	Shri Shivaji of Arts, Commerce and Science, Akola
237.	Dr.	Vandana BKhobragade	Faculty Member	Shri Shivaji College, Akola
238.	Professor	SATISH DAGDU JAMDHARE	Faculty Member	SHRI GANESH ART'S COLLEGE, KUMBHARI, AKOLA
239.	Professor	Deepali Bapusaheb Ghatul	Faculty Member	Shri Shivaji college of Arts commerce and Science Akola
240.	Ms.	Suvarna Dinkar Gotarkar	Researcher	Shri Shivaji College Akola
241.	Mr.	Chandrakant babanrao Dhumale	Researcher	Shri Shivaji college of Arts commerce & science Akola.
242.	Mr.	R.G.Baheti	Faculty Member	Smt. Radhadevi Goenka College, Akola
243.	Ms.	Mrinal	Faculty Member	Dreamz College of pharmacy Sundernagar Himachal Pradesh
244.	Mr.	Devendra Sampat Avthare	Researcher	Tai Golwalkar Mahavidyalaya,Ramtek
245.	Mr.	Dnyaneshwar Kasar	Researcher	Shivaji College of Arts, Commerce and Science College, Akola
246.	Ms.	Shreya Pradip Vairale	Researcher	Department of Biotechnology, SGBAU
247.	Mr.	Girish Girjapure	Researcher	Sant gadge Baba Amravati university.
248.	Professor	Archana Pawade Deshmukh	Researcher	Shri Shivaji Arts comme and Sci College Akola
249.	Ms.	Shweta Suresh Abgad	Faculty Member	Shri Shivaji college of arts,commerce and science,akola
250.	Ms.	Dhanashree Shrikant Tote	Industrial Person	Sant Gadge Baba Amravati University, Amravati
251.	Ms.	Shubhangi pramod kathole	Faculty Member	Shri shivaji collage of art commers and science akola
252.	Ms.	Reshma Devidas Dharmale	Researcher	Department of Biotechnology SGBAU
253.	Professor	Ram Dhekekar	Faculty Member	SSGMCE Shegaon
254.	Ms.	Pooja dhawale	Researcher	Shivaji college akola
255.	Ms.	Dhanashree Rajesh jadhav	Researcher	Sgbau
256.	Ms.	Mrs.Priyanka Yuvraj Korpe	Faculty Member	Shri Shivaji College of Arts Scienceand Commerce
257.	Mr.	Sunilkumar Nandlal Mawaskar	Faculty Member	Shri Shivaji College of Arts,Commerce and Science ,Akola
258.	Ms.	Anuja M Mopari	Faculty Member	Shri Shivaji College of Arts commerce and science Akola
259.	Dr.	Tushar Gajananrao Deshmukh	Faculty Member	Shri shivaji college of arts commerce and science akola
260.	Mr.	Dhanraj laxman shirbhaiyye	Researcher	Shri Shivaji college of arts commerce & science akola
261.	Dr.	Dr Narendra Rameshsing Chavan	Principal	MGM college of Agricultural Biotechnology Aurangabad
262.	Mr.	Dhanraj Laxman Shirbhaiyye	Researcher	Shri Shivaji Arts ,Commerce and Science College Akola.
263.	Mr.	SAGAR TRIVEDI	Researcher	Department of pharmaceutical sciences

Criterion – I- Curricular Aspects [QIM – 1.3.1]

264.	Ms.	Netra Gajananrao Mankar	Faculty Member	Shri Shivaji College Akola
265.	Professor	Ranjeet Eknathrao Bhadange	Faculty Member	Shri Shivaji college of Arts, Commerce and Science, Akola
266.	Professor	Chunubhushan Ishwardas Raut	Faculty Member	Shri Shivaji Arts Commerce and Science College Akola
267.	Ms.	Ashwini narendra potekar	Researcher	Shivaji college akola
268.	Dr.	Shirish vitthalrao Kadu	Faculty Member	Shri Shivaji College of arts commerce and science Akola Maharashtra
269.	Dr.	Pankaj Marotirao Tayde	Faculty Member	Bhauasaheb Dnyanprakash Arts College, Pinjar Dist Akola
270.	Ms.	SHITAL SUDHIR PATIL	Researcher	Shri Shivaji College of Arts Commerce and Science Akola
271.	Dr.	Archana Potey	Faculty Member	Babaji Datey A, & C College yavatmal
272.	Professor	Shama Jehan Parveen Khanam	Principal	Ojaswini College Par Excellence Damoh
273.	Mr.	Ashish Basantlal Budhrani	Faculty Member	Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, Maharashtra, India
274.	Professor	Dhammapal Yashawant Tayade	Researcher	Phulsing Naik Mahavidyalaya Pusad Dist.Yavatmal
275.	Professor	Professor Ram Vishal Shukla	Researcher	D. L. S. P. G. College
276.	Dr.	Ulhas Narayanrao Medshikar	Faculty Member	Shri Shivaji College of Arts, Commerce & Science, Akola



REPORT ON ONE DAY
VIRTUAL WORKSHOP ON
ORGANIC FERTILIZERS:
A MIRACLE OF NATURE.

Session 2021

India is agricultural country. The increased consumer demand appears to be driven *primarily* by the perception that organically grown produce was safer and more nutritious than produce grown conventionally. The use of inorganic fertilizer has been observed to cause the destruction of soil texture and structure, which often leads to soil erosion and acidity as a result of the leaching effect of nutrients. All these give rise to reduced crop yields as a result of soil degradation and nutrients imbalance. Manure soil had higher organic matter levels, lower bulk density, higher porosity and hydraulic conductivity, and greater aggregate stability than soils fertilized conventionally. Improvements in all of these soil quality indicators would optimize crop growth. Thus, one of the most significant benefits of manure as an organic nutrient source was the potential to maintain or increase soil organic matter levels.

Organic fertilizers mainly are “faecal material/manure and urine from different animals and/or humans, with the addition of plant materials (organic solid wastes), or in special situations waste materials from food or plant processing industries”, the origin of the different fractions. It is more environmental friendly than the inorganic fertilizers and its effect more tender on biotic components of the ecosystem without much shift in the ecological balance.

In India low-cost options for pathogen reduction and nutrient recovery from faecal sludge are of special importance. Organic fertilizers are made with natural raw material; it usually pertains to our biodegradable wet suit. Usually compost is made by decomposing biodegradable wastes. These wastes include paper, leaves, fruit peelings left over foods and even fruit juices. Organic fertilizers make a good addition to the soil. It makes the soil rich and ideal to planting.

So keeping this idea in mind, in this year we organized One day **virtual** workshop on **preparation of Organic Fertilizers** for UG & PG student's on 01-08-2021 at Botany Department. 275 students participated in this virtual workshop.

The main aim & objectives of our Department is to

- Spread importance of organic fertilizer and. Planning, promotion. Development of the fertilizer industry among the students.
- Enhance biological diversity within the whole system
- Increase soil biological activity
- Maintain long-term soil fertility
- Recycle wastes of plant and animal origin in order to return nutrients to the soil, thus utilizing the use of non-renewable resources

Shri Shivaji College of Arts, Commerce and Science, Akola Department of Zoology

World Tiger Day Report-2021

Shri Shivaji Education Society, Amravati's
**SHRI SHIVAJI COLLEGE OF ARTS,
COMMERCE & SCIENCE, AKOLA**

NAAC Re-accredited with "A" grade with CGPA - 3.25
Awarded CPE Status (College with potential for excellence) by UGC
DEPARTMENT OF ZOOLOGY in Collaboration with
Wild Life and Environment Conservation
Society (WECS), Amravati

Organizing

World Tiger Day

on 29 July 2021 Time : 12.00 noon

Patron
Hon. Shri Harshavardhanji Deshmukh
President, Shri Shivaji Education Society, Amravati

President
Dr. R. M. Bhise
Principal, Shri Shivaji College, Akola

Chief Guest
Dr. S. P. Khadakkar
Professor & Head Dept. of Statistics, Shri Shivaji College, Akola

Dr. Jayant Wadkar
President, WECS, Amravati

Dr. Ashish Raut
IQAC, Co ordinator, Shri Shivaji College, Akola

Renowned resource persons

Mr. Sandip Sarde
Naturalist, Akola

Prof. Dr. G. A. Wagh
Department of Zoology,
Shri Shivaji Science College, Amravati

Organizing Committee

Convener **Organizing Secretary**

Dr. P.P. Ade **Dr. H.P. Sapkal**
Professor & Head Associate Professor
Department of Zoology, Shri Shivaji College, Akola

Technical Committee

Dr. T. G. Deshmukh **Dr. U. P. Lande** **Dr. S. V. Gawande**
Assistant Professor Assistant Professor Assistant Professor

Dr. P. M. Ramteke **Dr. A. R. Rajoria**
Assistant Professor Assistant Professor

SHRI SHIVAJI COLLEGE OF ARTS COMMERCE AND SCIENCE AKOLA (MS) NAAC Reaccredited with A Grade College with "A" Grade CGPA-3.24 UGC Status of College with Potential of Excellence Lead college status by S.G.B.A.U., Amravati DST-FIST SUPPORT

DEPARTMENT OF ZOOLOGY in Collaboration with Wild Life and Environment Conservation Society (WECS), Amravati Organizing World TigerDay on 29July2021 Time : 12:00 PM.

Patron

Hon. Shri Harshwardhanji Deshmukh
President
Shri Shivaji Education Society,
Amravati

President	Chief Guest
Dr. R.M. Bhise	Dr. S.P. Khadakkar
principal	Professor & Head Department
Shri Shivaji College of	Statistics
Arts Commerce and Science, Akola	Shri Shivaji College , Akola

Chief Guest	
Dr. JayantWadatkar	Dr. AashishRaut
President	IQAC Coordinator
WECS,	Shri Shivaji College
Amravati	Akola

Renowned Resource person

Dr. Sandip Sarde
Naturalist
Akola

Dr.G.A. Wagh
Professor
Department of Zoology
Shri Shivaji Science college ,Amravati

Organizing Committee

Convener	Organizing secretary
Dr. P.P. Ade	Dr. H.P. Sapkal
Professor &Head Department of Zoology	Associate Professor Department of Zoology

Technical Committee

Dr. Tushar G. Deshmukh	Dr. U. P. Lande
Assistant professor	Assistant professor
Dr. S.B. Misal	Dr. P.M. Ramteke
Assistant professor	Assistant professor

Dr. A. R. Rajoria	
Assistant professor	

Topic of Speech: Importance of Conservation of Tiger

Dr. Sandip Sarde
Naturalist
Akola

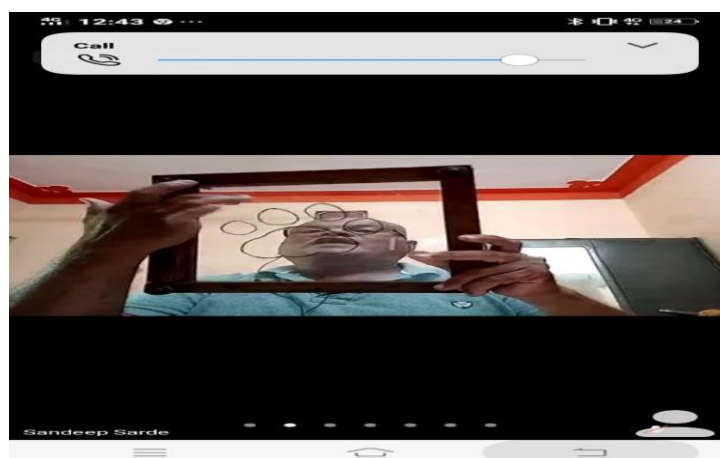
Topic of Speech: habitat conservation for Wild Life

Dr.G.A. Wagh
Professor
Department of Zoology
Shri Shivaji Science college ,Amravati

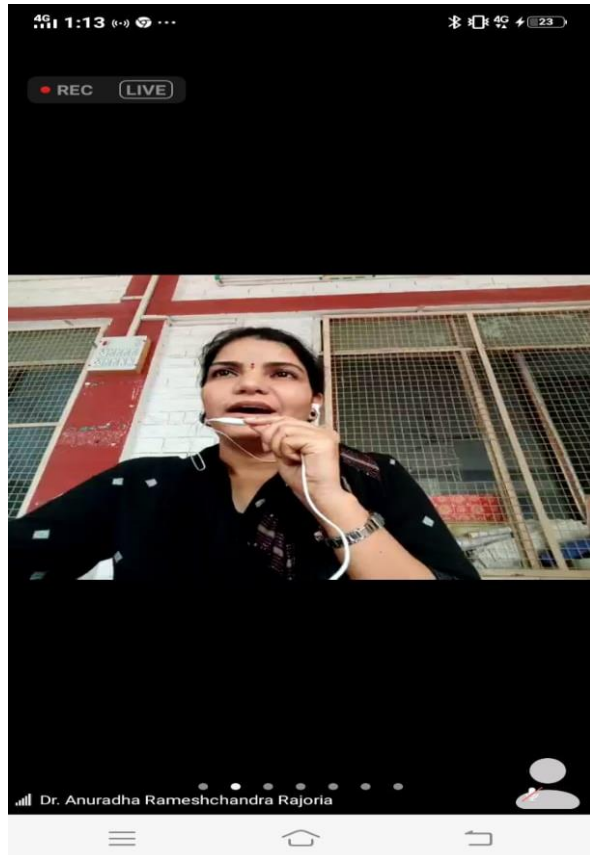
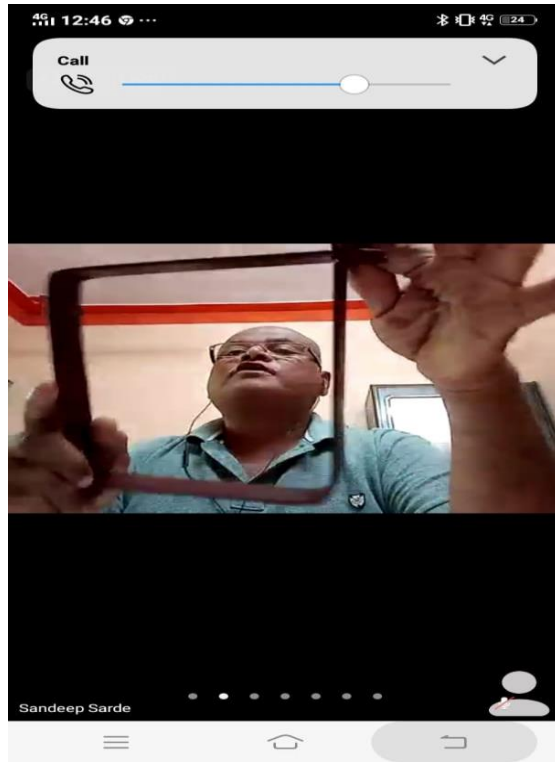
Objectives –

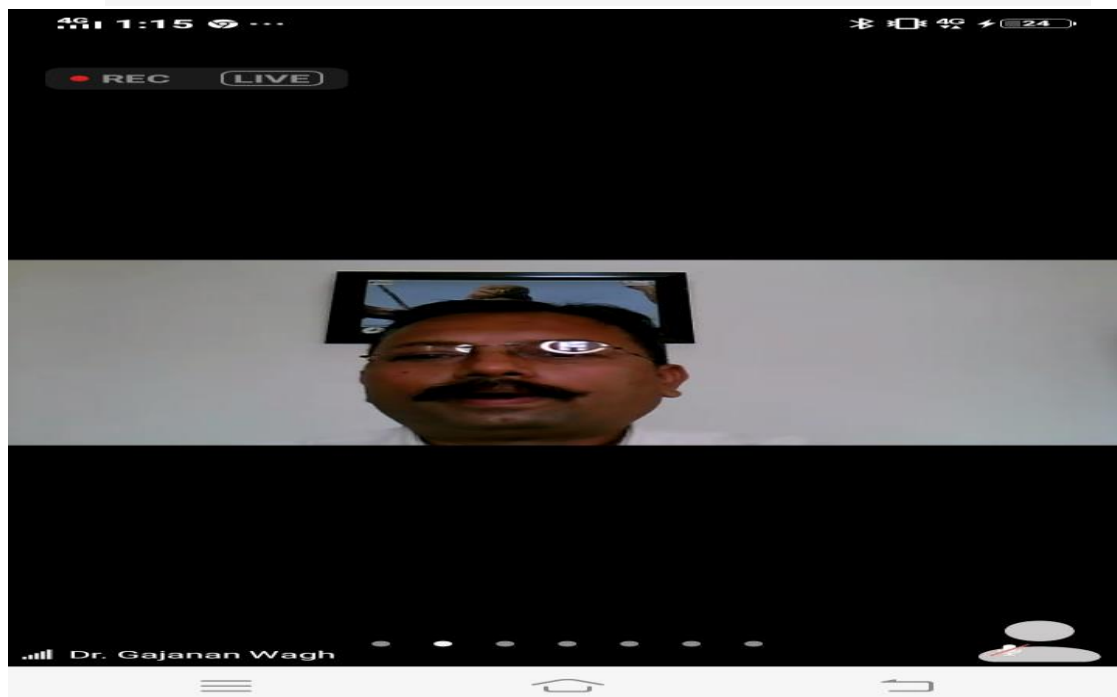
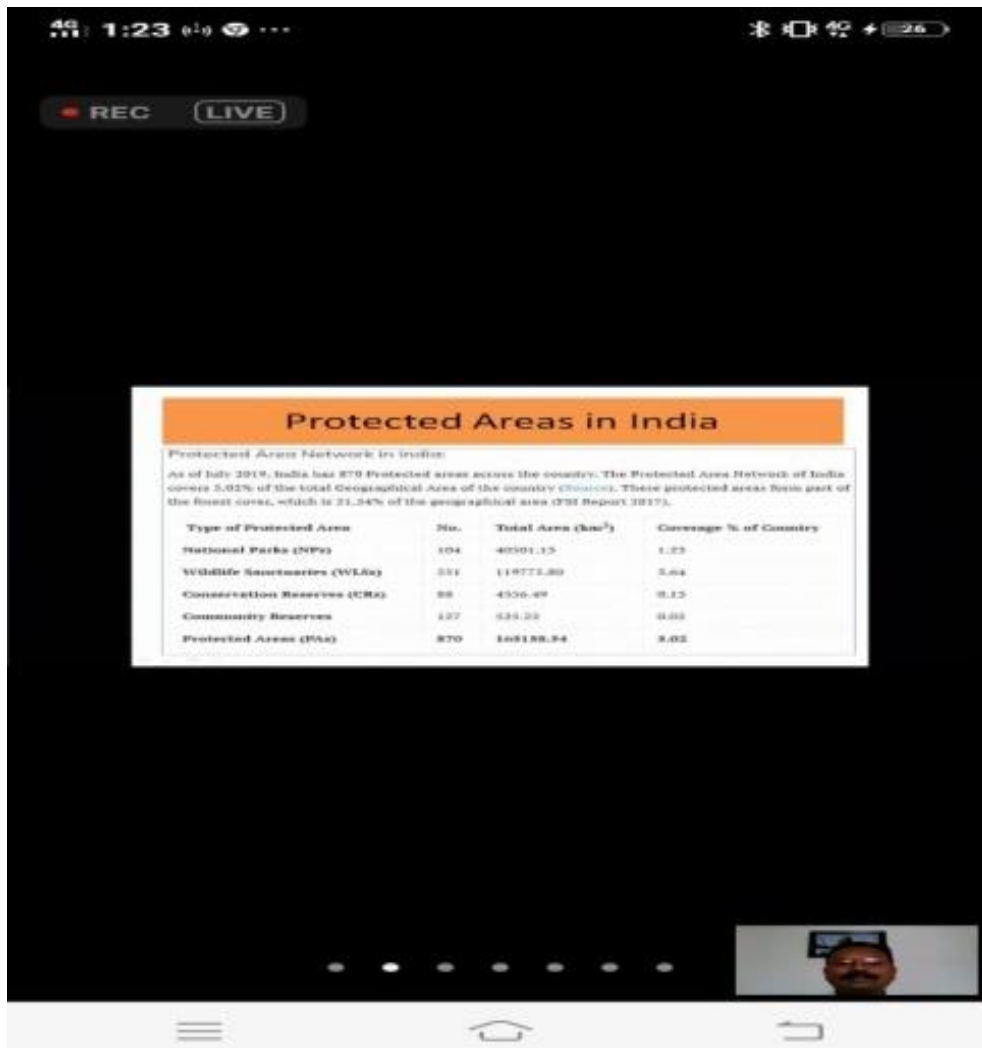
To Protect Tiger preserve and provides site specific habitat inputs for viable population of tigers.
And to protect them from extinction.

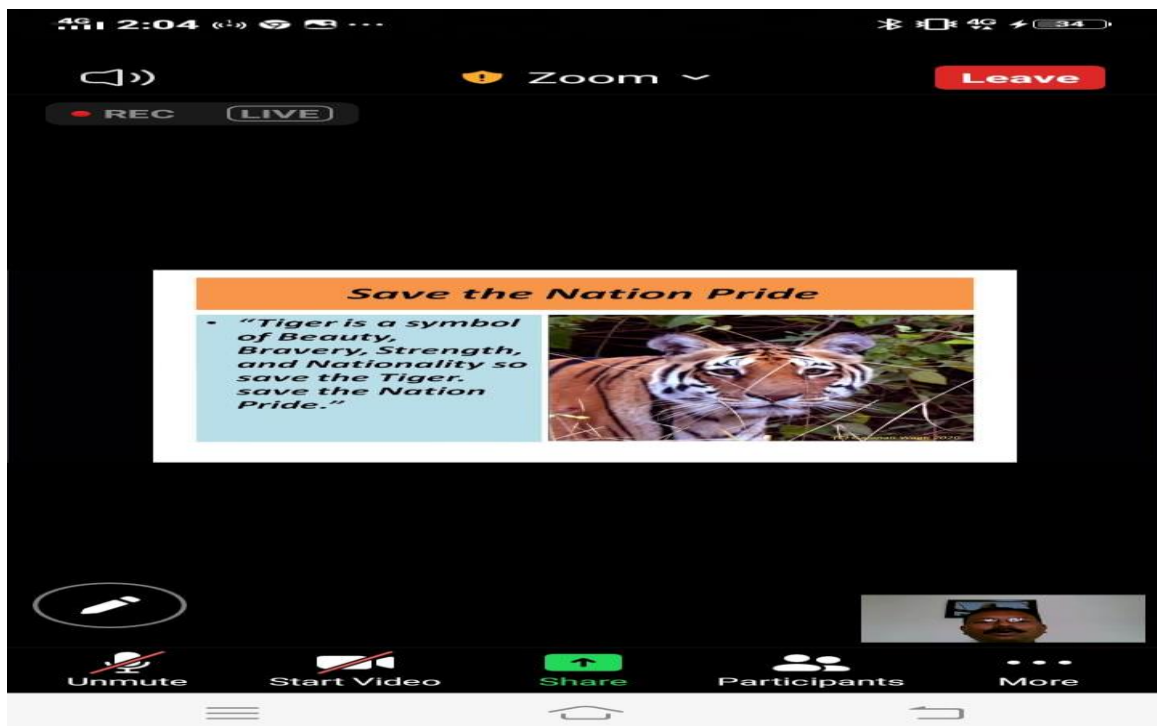
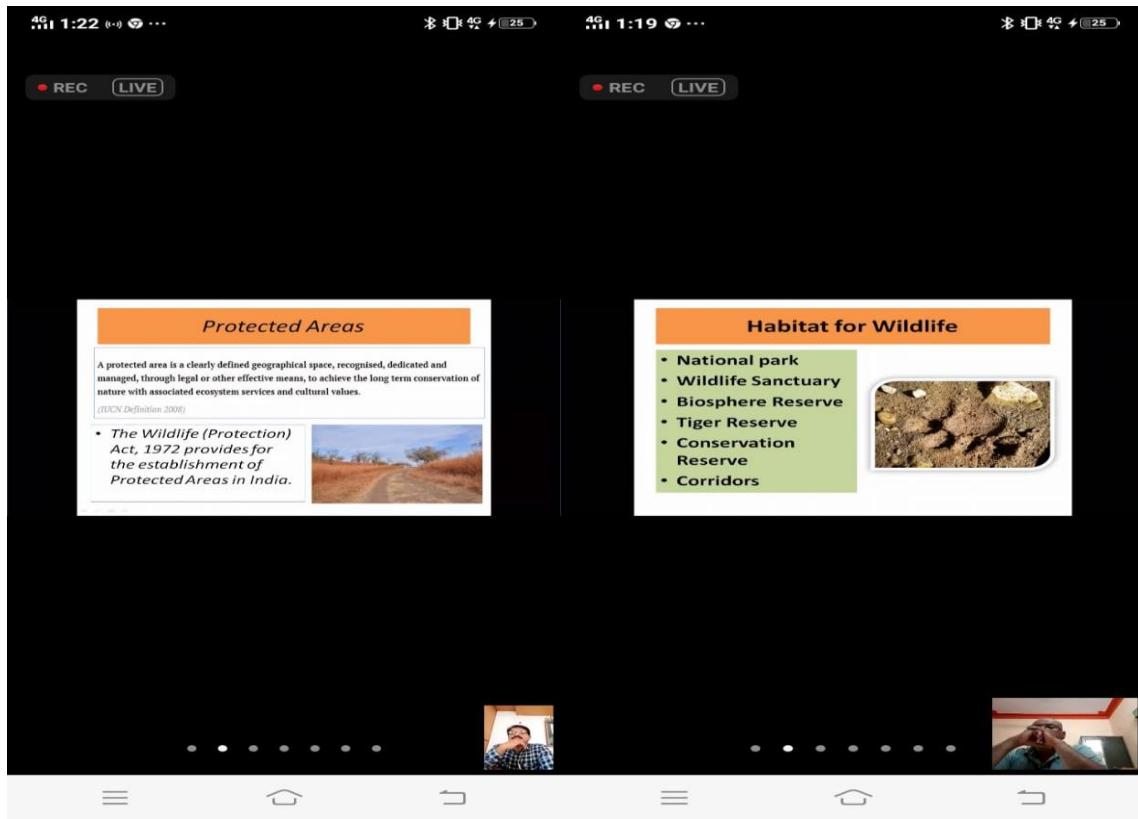
Images of world Tiger Day Events





Criterion – I- Curricular Aspects [QIM – 1.3.1]

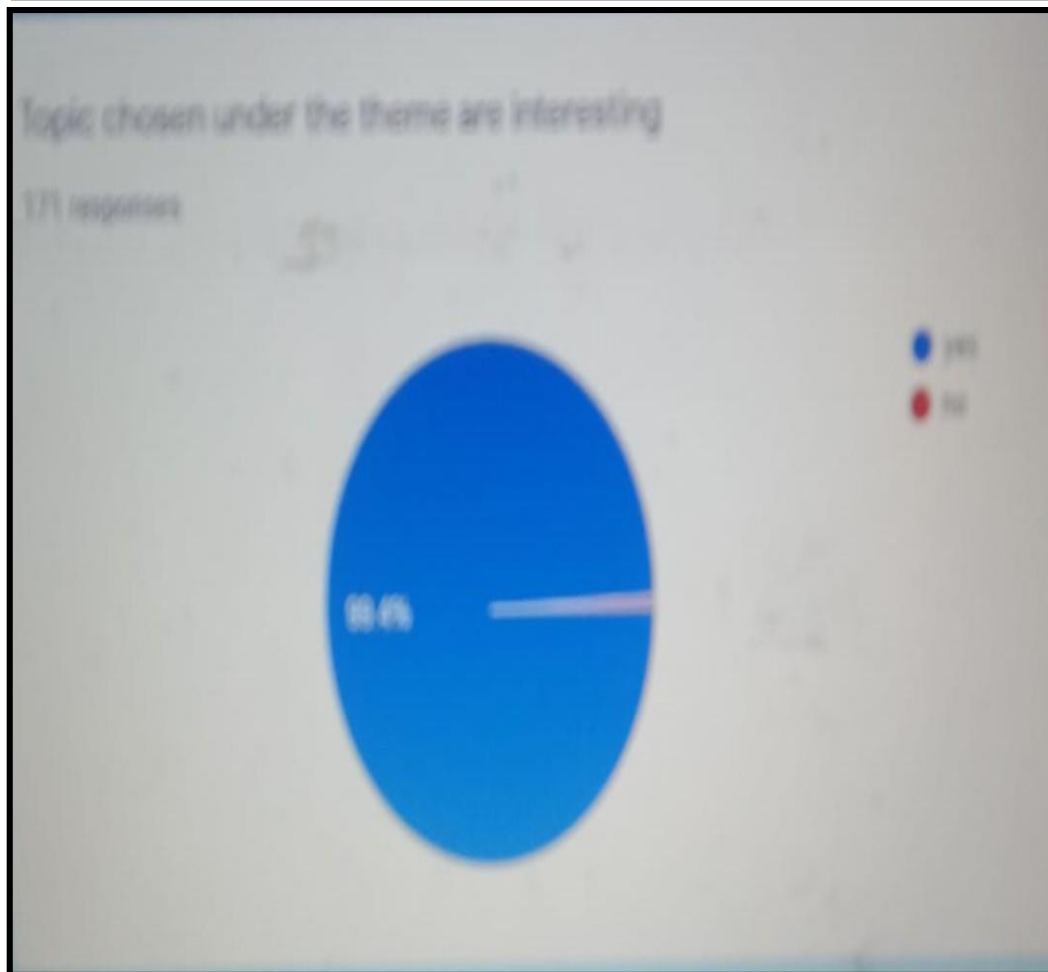
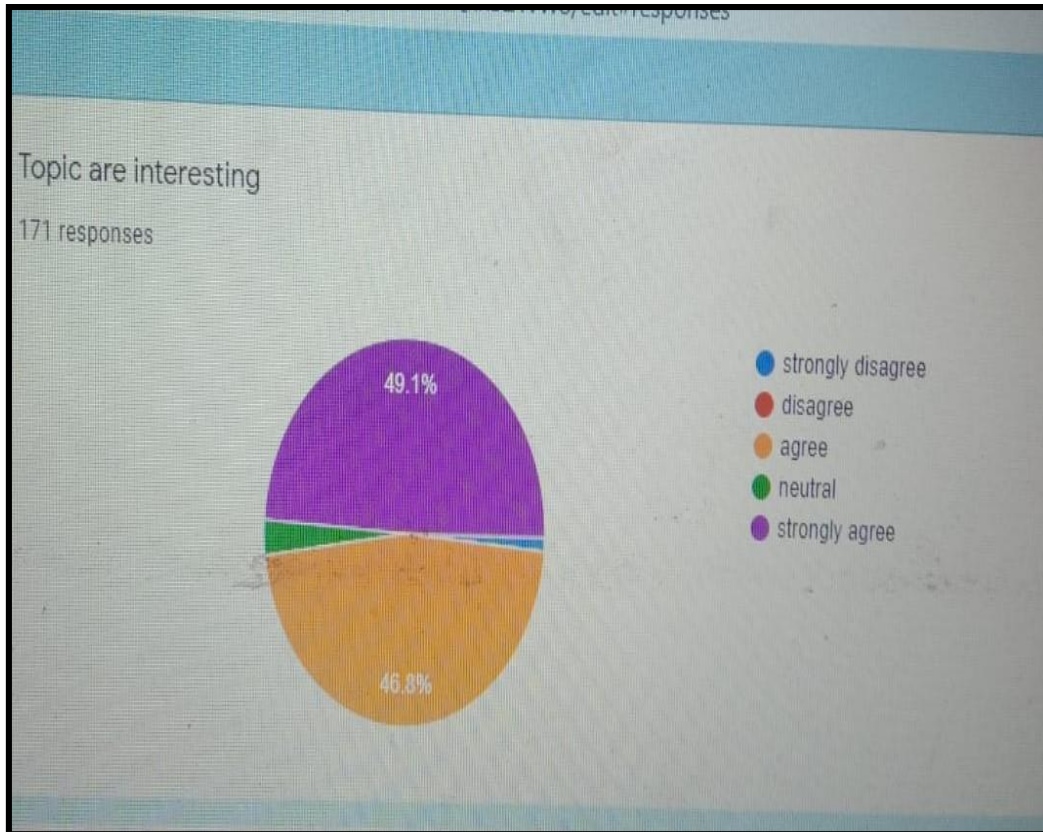






<p>Poaching & Illegal Trade</p> <p>Poaching of tigers happens as there is a huge demand for each body part of the tiger from whiskers to its tail.</p>  <p>Dr. Gajanan W...</p>	<p>Tiger (बाघ)</p> <p>Tiger (<i>Panthera tigris</i>)</p>  <p>Dr. Gajanan W...</p>
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Shri Shivaji Education Society, Amravati's


SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA

NAAC Re-Accredited with A grade with CGPA 3.24
UGC Status of 'College with Potential for Excellence', DST-FIST level-0 Support
Lead College status by S.G.B.A.U. Amravati
Near Shivaji Park, Akola - 444 001 (Maharashtra)
Phone & Fax : 0724-2410438/2412039 Cell : 09860290136
Website : shivajikola.ac.in E-mail : principal@shivajikola.ac.in



Late Dr. Panjabrao Deshmukh
Founder President

Hon. Harshvardhan Deshmukh
President



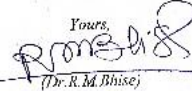
Dr. Rameshwar. M. Bhise
Principal


Rec. No. SSC/AK/A (2018-19) Index No. Sr. College : 205, Jr.01.01.094, HSVC : 01.01.903 Date :

To,


Dr. Jayant Wadatar
President, WECS-Amravati

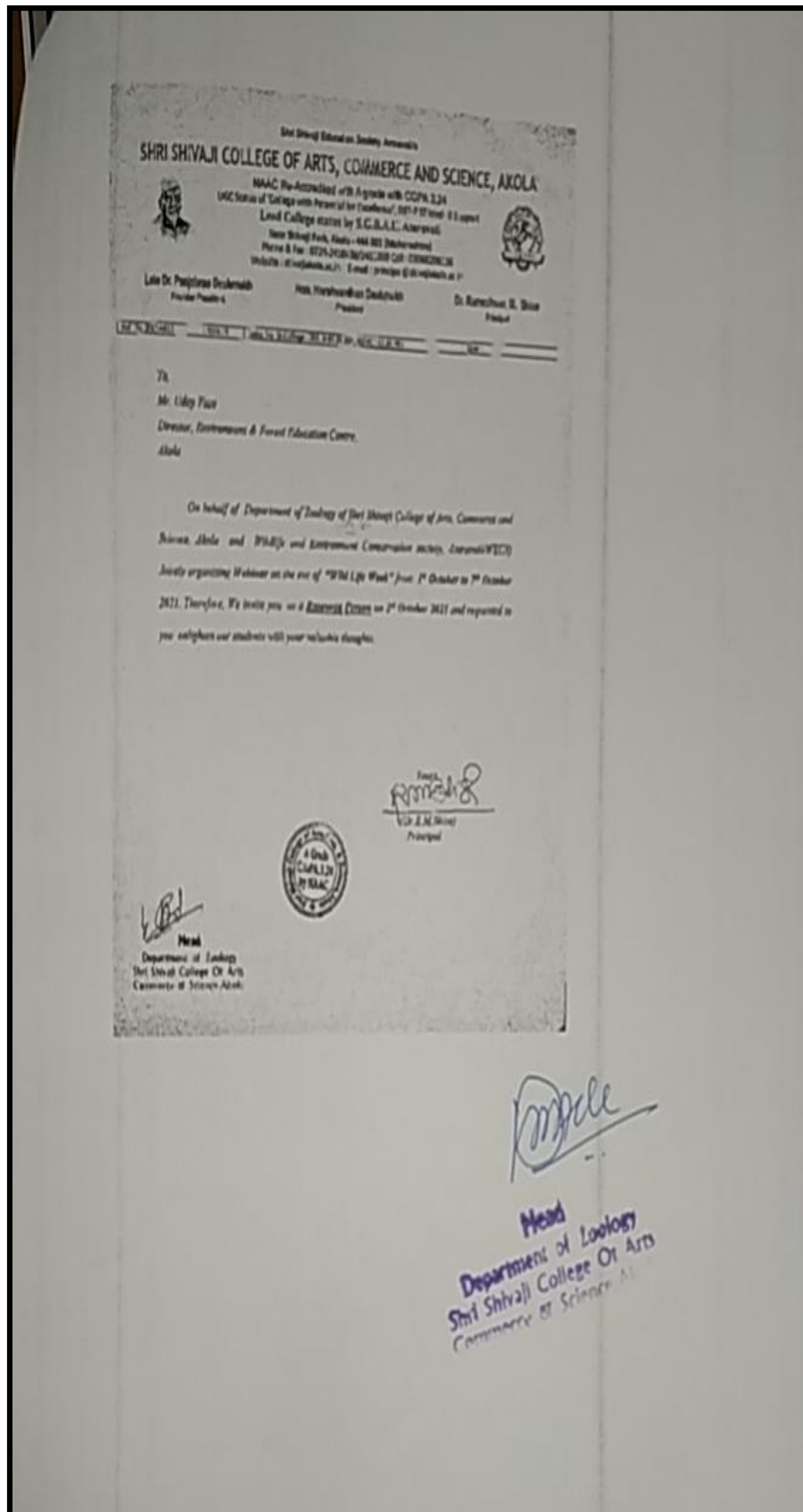
We are pleased to invite you on behalf of Department of Zoology of Shri Shivaji College of Arts, Commerce and Science and Wildlife and Environment Conservation society, Amravati (WECS) Jointly organizing Webinar on the eve of "Wild Life Week" from 1st October to 7th October 2021. Therefore, requested to your, accept our invitation as a Resource Person on 7th October 2021 and be kind enough to enlighten our students with your valuable thoughts.

Yours,

(Dr. R. M. Bhise)
Principal



Meera
Department of Zoology
Shri Shivaji College Of Arts
Commerce and Science, Akola





Shri Shivaji College of Arts, Commerce and Science, Akola Department of Zoology

World Sparrow Day Report (Guest Lecture)-2021

SHRI SHIVAJI COLLEGE OF ARTS COMMERCE AND SCIENCE AKOLA (MS) NAAC Reaccredited with A Grade College with "A" Grade CGPA-3.24 UGC Status of College with Potential of Excellence Lead college status by S.G.B.A.U., Amravati DST-FIST SUPPORT

DEPARTMENT OF ZOOLOGY in Collaboration with Wild Life and Environment Conservation Society (WECS), Amravati Organizing Webinar cum Competition on Selfie With Implanting Water Pot For Thirsty Birds on The Eve of World Sparrow Day on 20 March 2021 Time : 11:00 AM.

Patron

Hon. Shri Harshwardhanji Deshmukh
President
Shri Shivaji Education Society,
Amravati

President	Chief Guest
Dr. R.M. Bhise	Dr. S.P. Khadkar
principal	Professor & Head Department
Shri Shivaji College of	Statistics
Arts Commerce and Science, Akola	Shri Shivaji College , Akola

Guest of Honor	
Dr. Jayant Wadtkar	Dr. Aashish Raut
President	IQAC Coordinator
WECS,	Shri Shivaji College
Amravati	Akola

Renowned Resource person

Dr. Praveen Joshi
Professor
Amolakchand Mahavidyalaya
Yavatmal

Organizing Committee

Convener	Organizing secretary
Dr. P.P. Ade	Dr. H.P. Sapkal
Professor & Head Department of Zoology	Associate Professor Department of Zoology

Technical Committee

Dr. Tushar G. Deshmukh	Dr. U. P. Lande
Assistant professor	Assistant professor
Dr. S.B. Misal	Dr. P.M. Ramteke
Assistant professor	Assistant professor
Dr. A. R. Rajoria	
Assistant professor	

Topic of Speech: Disappearing of Sparrow

Dr. Praveen Joshi
Professor
Amolakchand Mahavidyalaya
Yavatmal

Winner

First Prize – 5000 Rs.	1) Shweta Mahore B.Sc. III
Second Prize- 300Rs.	2) Shazia Khan M.Sc. II
Third Prize- 200Rs.	3) Pooja Dhote B.Sc.II & Vaishnavi Kale M.Sc. I

Objectives

To inform about the significance and importance of conservation and protection of the sparrow.

Sparrow play important role in preserving the ecosystem.

Certificate Distribution Record

Time stamp	Email Address	Score	Name of participant	College name	Department	Mobile no.	Topic are interesting	which topic you like the most	Duration of webinar are sufficient	Topic chosen under the theme are interesting	Any suggestion
3/20/2021 12:43:45	heebakhan0199@gmail.com		HEEBA IRAM IRSHADULLAH KHAN	Shri. Shivaji College, Akola	Zoology	7378438786	strongly agree	Every topic was filled with interesting information	yes	yes	Everything was Perfect.
3/20/2021 12:44:17	firdousnamira123@gmail.com		Namira Firdous Waheed ur Rehman	Shri shivaji clg Akola	Zoology	8983730360	agree	Selfie with implanting water pot for thirsty birds	yes	yes	Save birds
3/20/2021 12:44:23	khananamfirdos@gmail.com		Anam firdos junaid Aamir Khan	Shivaji college Akola	Department of zoology	9881284371	agree	Rapid urbanization	yes	yes	No
3/20/2021 12:44:24	shaikhfaiyaz8259@gmail.com		Shaikh Faiyaz Abdul Aziz	Shri Shivaji college akola	Zoology	7020983059	agree	About sparrow	yes	yes	No
3/20/2021 12:44:24	sapnawankhade1310@gmail.com		Ku.Sapna Raju Wankhade	shri.Shivaji Collage of arts, commerce and science ,Akola	Zoology	8600503261	strongly agree	Selfie competition	yes	yes	-
3/20/2021 12:44:28	akshuharne@gmail.com		Akshay Ravindra Harne	Shri Shivaji College of Arts, Commerce & Science, Akola	Zoology	9923556237	strongly agree	All	yes	yes	No
3/20/2021 12:44:29	apekshamankar001@gmail.com		Apeksha Sudhir Mankar	Shri Shivaji Art ,Commerce and science college, akola	Zoology	7218582954	agree	Put water pot in balcany	yes	yes	No all perfect
3/20/2021 12:44:33	rauttejaswi4@gmail.com		Tejaswi Shivdas Raut	Shri. Shivaji college of arts, commerce & science, Akola	Zoology	8080048012	strongly agree	All	yes	yes	-

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 12:44:34	chaudharisakshi25@gmail.com	Sakshi Chaudhari	Shri. Shivaji Art, Commerce and Science College, Akola	Zoology	8087437112	agree	Water for thirsty Bird	yes	yes	No sir
3/20/2021 12:44:38	himanshusunariwal1999@gmail.com	HIMANSHU K SUNARIWAL	Shri shivaji college akola	Zoology	9588457820	strongly agree	Reasons for decline in sparrow number and what can we do to conserve sparrow	yes	yes	Program was really helpful for encouraging us to take further steps to conserve birds especially sparrows
3/20/2021 12:44:40	poonamguhe1@gmail.com	Poonam Vivek Guhe	Shri shivaji college Akola	Zoology	7385016802	agree	Importance of sparrow	yes	yes	All are good
3/20/2021 12:44:43	sumeraafreen002@gmail.com	SUMERA AFREEN MOHAMMAD RAFI	Shri Shivaji College of Arts Commerce and Science Akola	Zoology	7888064795	agree	Importance of sparrow	yes	yes	No
3/20/2021 12:44:56	pratikshabole720@gmail.com	Ku. Pratiksha Dadarao Bole	Shri Shivaji College of arts commerce and science Akola	Zoology	8010409639	strongly agree	Implanting water pots for birds	yes	yes	Keep this program every year
3/20/2021 12:44:56	dgogate2000@gmail.com	Dipti Dilip Gogate	Shri Shivaji College Akola	Zoology	9325672018	strongly agree	Implanting thirsty birds	yes	yes	No
3/20/2021 12:44:56	wpatil.1@rediffmail.com	Pratiksha Pramod Waghmare	Shri Shivaji College Akola	Zoology	7507046799	strongly agree	Implanting water plant	yes	yes	No
3/20/2021 12:44:59	ichaudhari487@gmail.com	Ishwari Chaudhari	Shri Shivaji Collage ,Akola	Zoology	7028607221	agree	Conservation ideas	yes	yes	No
3/20/2021 12:45:05	prasadwakode6@gmail.com	Prasad santosh Wakode	Shri.Shivaji college, Akola	Zoology	7719014589	strongly agree	Why world sparrow dai is celebrated ?	yes	yes	No
3/20/2021 12:45:08	hariyafirdos24@gmail.com	Hariya firdos Mohammad fayaz	Shri Shivaji college Akola	Zoology	9420159410	agree	Yes	yes	yes	No
3/20/2021 12:45:14	Taskeen033@gmail.com	Taskeen Fatema rowan khan	Sri Shivaji College akola	Zoology	9423041734	agree	How can we safe the birds in this era.	yes	yes	Nothing

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 12:45:23	vaishnavimukunde2000@gmail.com	Vaishnavi Mukunde	Shri shivaji college akola	Science	8999628597	strongly agree	All topic	yes	yes	No
3/20/2021 12:45:36	harshal.meshram@rssc.edu.in	Harshal ashokrao meshram	Rajrshee shahu science college chandur railway	Zoology	9511792765	agree	Sparrow	yes	yes	No
3/20/2021 12:45:37	supriyashivarkar40@gmail.com	Supriya sunil shivarkar	Shri Shivaji clg Akola	Zoology	7743892012	agree	Save the Birds	yes	yes	No
3/20/2021 12:45:37	saurabhpundkar001@gmail.com	Saurabh Ashokrao Pundkar	Shri Shivaji college of Arts, Commerce and Science Akola	Zoology	9730669829	strongly agree	Conservation of sparrow	yes	yes	No
3/20/2021 12:45:37	arshiyaanjum0001@gmail.com	Arshiya Anjum Mohammad Masi Uddin	Shri shivaji college of arts commerce and science akola.	Zoology	8329332210	strongly agree	High level pollution	yes	yes	No
3/20/2021 12:45:46	juhiruikar21@gmail.com	Juhi Pravin Ruikar	Shri Shivaji College of Arts Science and Commerce	Zoology, (CBZ)	9112105445	strongly agree	Slogan	yes	yes	...
3/20/2021 12:45:53	pallavit28700@gmail.com	Pallavi jaysinh thakur	Shri shivaji college of arts,commerce and science.akola	Zoology	9021315821	strongly agree	Save sparrow	yes	yes	No
3/20/2021 12:46:31	quanetaanam363@gmail.com	Quaneta Anam Asif Khan	Shri shivaji college akola	Zoology	7720895707	neutral	How to attract sparrow and other common birds	yes	yes	No
3/20/2021 12:46:53	rashmiwavare96@gmail.com	Rashmi wavare	Shri shivaji collage	Zoology	8080360862	agree	Sparrow	yes	yes	No
3/20/2021 12:47:02	kalyanibobade07@gmail.com	Miss. Kalyani dilip bobade.	Shri. Shivaji college of arts , commerce and science ,akola.	Zoology	9322936256	agree	Sparrow day.	yes	yes	No
3/20/2021 12:47:12	ruchagirhe@gmail.com	Ruchita Rajesh Girhe	Shri .Shivaji Arts commerce and science ,Akola.	Zoology	7057158520	strongly agree	All topics are very interesting	yes	yes	No
3/20/2021 12:47:35	dnyaneshwarishegokar7@gmail.com	Dnyaneshwari Shankar Shegokar	Shri Shivaji College of Arts, Commarce and Science, Shegaon	Zoology	8010114355	strongly agree	Sparrow	yes	yes	No
3/20/2021 12:47:39	radhadhumale2001@gmail.com	Ku. Radha kishor Dhumale	Shri. Shivaji college of arts, commerce and science, Akola.	Zoology	9075202306	strongly agree	Webinar on world sparrow day	yes	yes	No
3/20/2021 12:47:41	gitanjalifuke1999@gmail.com	Gitanjali Dilip Fuke	Shri shivaji college of art science and commerce akola.	Zoology	9511950450	strongly agree	Save birds	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 12:47:46	prachi.jadhao08@gmail.com	Prachi Dayaram Jadhao	Shri shivaji college of art, commerce and science Akola	Zoology	7796778433	strongly agree	Lecture by- Dr. Pravin Joshi Sir	yes	yes	No
3/20/2021 12:47:54	lfrahshadan@gmail.com	lfrah Shadan Mohammad Azhar	Shri Shivaji College of Arts Commerce and Science Akola	Zoology	8007085212	strongly agree	Save thirsty birds	yes	yes	No
3/20/2021 12:47:56	aerastabassum470@gmail.com	Aeras Tabassum Ghulam Farooque	Shri Shivaji College of Arts, Commerce and Science Akola.	Zoology	7276258313	strongly agree	Save thirsty birds	yes	yes	No
3/20/2021 12:48:12	sumedhsapkal21@gmail.com	Sumedh Shailesh Sapkal	Shri Shivaji College Of Science, Arts & commerce, Akola.	M.Sc Zoology	9765055531	agree	The topics given are interesting in overall view.	yes	yes	The seminar could n't be any more interesting <input type="checkbox"/>
3/20/2021 12:48:14	kaifm32460@gmail.com	Mohammad Kaif Mohammad Javed	Shri Shivaji college of Art's commerce and Science Akola	Zoology	7620548010	agree	Wildlife and ecological balance	yes	yes	Nothing
3/20/2021 12:48:27	mahimasirsat123@gmail.com	Mahima Diwakar Sirsat	Shri. Shivaji collage of art commerce and sceince akola	Zoology	9764311455	strongly agree	Sir tell about the reasons decreasing the number of not only Sparrow but also all the birds our surrouned.	yes	yes	All the people should aware about nature.
3/20/2021 12:48:39	shumailanusratkhan@gmail.com	Shumaila Aafreen Nusrat Ullah Khan	Shri shivaji College Akola	Zoology	7888203642	agree	Save the sparrows of our world and stop their extinction.	yes	yes	No
3/20/2021 12:48:40	dinusolanke143@gmail.com	Digambar H. Solanke	Shri shivaji college Akola	Zoology	9588464173	strongly agree	Zoology	yes	yes	No
3/20/2021 12:49:05	nomani1005@gmail.com	Shameela nomani	Shri Shivaji college of arts commerce and science akola	Zoology	8007989095	agree	Disappearing of sparrow	yes	yes	Safe bird save life
3/20/2021 12:49:06	sakshigawande18064@gmail.com	Ku. Sakshi Dhananjay Gawande.	Shri Shivaji college of Arts, Commerce and Science, Akola	Zoology	9146908082	agree	Disappearing of sparrows	yes	yes	Save and protect sparrows.
3/20/2021 12:49:09	punamraut3030@gmail.com	Ku. Punam Santosh Raut	Shri.Shivaji College Akola	Department Of Zoology	7666398446	agree	Implanting Water Pot For Thirsty Birds	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 12:49:13	punamraut3030@gmail.com	Ku. Punam Santosh Raut	Shri. Shivaji College Akola	Department Of Zoology	7666398446	agree	Implanting Water Pot For Thirsty Birds	yes	yes	No
3/20/2021 12:49:28	azraanjumshaikh1234@gmail.com	Azra Anjum Shaikh Saleem	Shri Shivaji college of Arts commerce and science Akola.	Zoology	8329100796	agree	Very nice	yes	yes	No
3/20/2021 12:49:28	dikshadhenge1234@gmail.com	Diksha vikas dhenge	Shri shivaji art , commerce and science college akola	Zoology	9921301482	strongly agree	Care of sparrows	yes	yes	No
3/20/2021 12:49:44	ranibhatkar9464@gmail.com	Rani Kiran Bhatkar	Shri. Shivaji college of arts commerce and science Akola	Zoology	7020824279	agree	Implanting water pot for thirsty birds	yes	yes	No
3/20/2021 12:50:01	anjali.1tadse@gmail.com	Ku. Anjali Bharat Tadse	Shri. Shivaji Collage, Akola	Zoology	7083511214	strongly agree	Put water pots for thirsty birds at balcony.	yes	no	No
3/20/2021 12:50:02	revatilokhande8@gmail.com	Ku. Revati wamanrao Lokhande	Shri. shivaji college of arts, commerce and science Akola.	Department of zoology	8669367495	agree	Implanting of thirsty birds	yes	yes	No....
3/20/2021 12:50:31	jain16091999@gmail.com	Anjali Umesh Jain	Shri shivaji arts commerce and science clg akola	Zoology	9130711347	agree	Sparrow day	yes	yes	No
3/20/2021 12:51:41	saniyasyed2696@gmail.com	SANIYA SYED SALIM	Shri shivaji college Akola	Zoology	7666188553	neutral	Water pots of thirsty bird's	yes	yes	No
3/20/2021 12:52:13	vaishalijalamkar98@gmail.com	Vaishali Gajanan Jalamkar	Shri shivaji collage akola	Zoology	9130381876	strongly agree	Competition on selfie with implanting water pot for thirsty birds	yes	yes	No
3/20/2021 12:52:21	shwetamahore3@gmail.com	Shweta shantaram mahore	Shri shivaji collage akola	Zoology	8637790789	agree	House guest bird	yes	yes	No
3/20/2021 12:52:35	gawandevaishnavi75@gmail.com	Vaishnavi Manish Gawande	Shri shivaji college of arts commerce and science akola	Zoology	9307661467	strongly agree	All topics	yes	yes	No
3/20/2021 12:52:36	dnotesakshi983@gmail.com	Sakshi Vitthal Dhote	Shri shivaji college of arts, commerce and science akola	Zoology	8080376673	strongly agree	All topic	yes	yes	No
3/20/2021 12:52:45	snehapagrut7263@gmail.com	Sneha Ravi Pagrut	Shri Shivaji college of arts commerce and science, akola	Zoology	7768837390	agree	Lecture by Dr. Pravin Joshi sir	yes	yes	No
3/20/2021 12:52:50	kasturikhune074@gmail.com	Kasturi anil khune	Shri shivaji science collage	Zoology	9156363349	agree	House gest bird	yes	yes	All good seminar are good. It's

Criterion – I- Curricular Aspects [QIM – 1.3.1]

											so unique.
3/20/2021 12:53:14	tanzilmirzat@gmail.com	Masira Afif Mirza Anees baig	Shri Shivaji college of Arts Commers and Science Akola	Zoology	9322298550	strongly agree	House sparrow	yes	yes	No	
3/20/2021 12:53:51	bansodpritti327@gmail.com	Priti Santosh Bansod	Shri shivaji college of Art commerce and science akola	Zoology	9325114107	agree	care of sparrows and save sparrows save nature.	yes	yes	No	
3/20/2021 12:54:02	Kalyaninage25@gmail.Com	Kalyani Anand Nage	Shri shivaji college of arts commerce and science akola	Zoology	8208795791	agree	All topic	yes	yes	No	
3/20/2021 12:54:04	meghaingle9552@gmail.com	Megha Anil Ingle	Shri shivaji college chikhli	Zoology	9552467175	strongly agree	Save sparrow	yes	yes	No	
3/20/2021 12:54:27	nehaspadmane2001@gmail.com	Neha Santosh Padmane	Shree shivaji college Akola	Zoology	8975738990	agree	All topic are interesting	yes	yes	No	
3/20/2021 12:54:39	wajahatparvez07@gmail.com	Wajahat Saleem Parvez	Shri Shivaji College of Arts ,Commerce and Science Akola	Zoology	9021277778	agree	Water Pods and thirsty birds	yes	yes	Keep it up	
3/20/2021 12:54:56	aafiyaanam2902@gmail.com	Aafiya Anam Iftekhar Ahmad	Shri Shivaji College of Arts, Commerce and Science,Akola	Zoology	8793559575	strongly agree	Disappearing of Sparrows	yes	yes	No	
3/20/2021 12:55:01	altamashrahil4516@gmail.com	Altamash Rahil Shaikh Umrao	Shri Shivaji College Akola Maharashtra 444001	Zoology Department	8888376971	strongly agree	The relationship between People and Sparrows	yes	yes	I enjoyed the day very much	
3/20/2021 12:55:05	sakshijangale7113@gmail.com	Sakshi jangale	Shree shivaji college akola	Biotech zoo	9130399553	strongly agree	Making water pot	yes	yes	Help the thirsty birds	
3/20/2021 12:55:20	saniyasyed2696@gmail.com	SANIYA SYED SALIM	Shri shivaji college Akola	Zoology	7666188553	strongly agree	Help the thirsty bird's with water pots and bird's are very important part of life...	yes	yes	No..	
3/20/2021 12:55:40	yashmilkepatil@gmail.com	Yash Gajanan Milke	Shri Shivaji College Of Arts, Commerce & Science akola	Che-bot-zoo	8975727887	agree	Encourage people to admire the beauty of biodiversity and nature and protect it.	yes	yes	Thankyou	

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 12:56:01	ranirathod6313@gmail.com	Hindavi Bharat Rathod	Shivaji collage akola	Zoology	9309909179	agree	Sparrow day	yes	yes	Save the Birds
3/20/2021 12:56:28	ranijawanjal20@gmail.com	Ms.Rani vilasrao jawanjal	Shri Shivaji science College Amravati	Zoology	7507368059	strongly agree	All topic is good	yes	yes	No every thing is Good
3/20/2021 12:57:02	syedazalfa1@gmail.com	Sayyada Azalfa Abeer	Shri Shivaji college Akola	Zoology	7057667039	strongly agree	Information about sparrow	yes	yes	Arranged this types of program frequently.
3/20/2021 12:57:31	nikhilbhatkar102@gmail.com	Nikhil Bhatkar	SHRI SHIVAJI COLLEGE OF ARTS COMMERCE AND SCIENCE AKOLA	Zoology	9822225687	strongly agree	Implanting Water Pot For Thirsty Birds	yes	yes	No
3/20/2021 12:58:00	shubhangikhedkar9028@gmail.com	Shubhangi sanjay khedkar	SHRI. SHIVAJI COLLEGE of ARTS,COMMERCE, and SCIENCE akola.	Department of zoology	7499033958	strongly agree	Why world sparrow day is celebrated	yes	yes	No
3/20/2021 12:58:17	humairafirdous06@gmail.com	Humaira Firdous Abdul Hadi	Shri Shivaji College, Akola	Zoology	7972856393	agree	Save the sparrows of our world and Stop their extinction	yes	yes	No
3/20/2021 12:59:07	dhurdevjyoti@gmail.com	Jyoti haridas Dhurdev	Shri shivaji college akola	Zoology	9067712948	agree	□□□	yes	yes	No
3/20/2021 12:59:13	ayeshazakir7211@gmail.com	AYESHA SIDDIQUA MOHAMMAD ZAKIR	Shri Shivaji college of arts commerce and Science Akola.	Department of zoology	9028909438	agree	Disappearing of sparrow.	yes	yes	No
3/20/2021 13:00:55	khanzodedeepika55@gmail.com	Deepika Shivhari Khanzode	Shri. Shivaji College of Arts, Commerce and Science, Akola	Zoology	9075718005	strongly agree	Reasons for Declination of Sparrows in the environment are True.	yes	yes	This type of program should be arranged.
3/20/2021 13:02:38	sanasamiya25@gmail.com	Sana Samiya Mohammad Raziq Shaikh	Shri Shivaji College of Arts, Commerce and Science ,Akola	Department of Zoology	7719907674	agree	Disappearing of Sparrows	yes	yes	No
3/20/2021 13:02:47	vaishnavik299@gmail.com	Vaishnavi vinayak kale	Shri shivaji college of arts, commerce and science, akola.	Zoology	7249071604	strongly agree	Implanting water pot for thirsty birds on the eve of world sparrow day.	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 13:02:54	subhashnage435@gmail.com	Subhash Murlidhar.Nage	Shree shivaji Art, commerce ,science college Akola	Zoology	9356691634	strongly agree	World Sparrow day save bird save life	yes	yes	No
3/20/2021 13:04:25	pallavishete45@gmail.com	Pallavi Prakash Shete	Shri Shivaji College, Akola	Zoology	9405102660	strongly agree	Awareness	yes	yes	No
3/20/2021 13:05:03	izhanpatel2@gmail.com	Leeza tasneem	Shri shivaji college akola	Zoology	9404373687	agree	House sparrow	yes	yes	No
3/20/2021 13:06:59	sujata.raibole5@gmail.com	Sujata Rahul Raibole	Shri. Shivaji College Akola	Zoology	9767046151	agree	Importance of sparrow	yes	yes	No
3/20/2021 13:09:26	azraanjumshaikh1234@gmail.com	Azra Anjum Shaikh Saleem	Shri Shivaji college of Arts commerce and science Akola.	Zoology	8329100796	agree	Every one Very nice	yes	yes	No
3/20/2021 13:10:27	janhviraute2018@gmail.com	Janhvi Manoj Raut.	Shri.Shivaji College Of Arts, Commerce and Science Akola.	Zoology	8080636962	agree	Dr.Ashish Raut sir speech	yes	yes	No
3/20/2021 13:11:23	skmoinfaiz@gmail.com	Moin Faiz Abdul Anis	Shri Shivaji College of Arts, Commerce & Science, Akola	Zoology	7666877728	strongly agree	Selfie with implanting water pot for thirsty birds	yes	yes	No
3/20/2021 13:12:01	mohitgaikwad007@gmail.com	Mohit Gaikwad	Shivaji college Akola	Zoology	09158311774	strongly agree	About saving the sparrow	yes	yes	No comments
3/20/2021 13:12:19	tanveerrohel@gmail.com	Tanveer sing Rohel	Shri shivaji collage akola	Cbz	7719989363	strongly agree	Save birds	yes	yes	No
3/20/2021 13:13:40	uroojmadiha83@gmail.com	Madiha Urooj Mohammad Ibrahim	Shri Shivaji College of arts commerce and science,Akola.	Department of zoology	9673120369	agree	Precautions for saving the birds.	yes	yes	Department should arrange the activities like this always <input type="checkbox"/>
3/20/2021 13:14:20	junaidahmed1584@gmail.com	Mohammed junaid ansar ahmed	Shri shivaji College of arts commerce and science	Department of Zoology	9511689282	strongly agree	Why world sparrow day is celebrated	yes	yes	No any suggestions regarding this!
3/20/2021 13:16:36	sanskritisawlekar@gmail.com	Sanskriti S Sawlekar	Shri Shivaji college of arts commerce and science, Akola	Zoology	8261871511	agree	Every topic	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/20/2021 13:16:43	poojaw260399@gmail.com	Pooja Vasant Waghmare.	Shri. Shivaji Collage of Art, Commerce and Science.	Zoology	9673765565	neutral	All topic is best.	yes	yes	No
3/20/2021 13:16:59	rupalijalambe27@gmail.com	Rupali N.jalambe	Shri Shivaji college akola	Zoology	9890610065	strongly agree	Conservation of sparrow helps save much of the biodiversity	yes	yes	No
3/20/2021 13:18:23	vaishaliwankhade623@gmail.com	Vaishali Vinod Wankhade	Shri Shivaji Arts, Commerce and Science, Akola	Biology (CBZ)	8600739572	strongly agree	Giving birds their right to live and our responsibility towards them	yes	yes	No
3/20/2021 13:18:24	ruchitaphale5@gmail.com	Ku.Ruchita Sunil Phale	Shri.shivaji college of arts, commerce & science ,Akola	Zoology	8080146248	agree	Sparrow speech	yes	yes	No
3/21/2021 12:43:49	saniadnan39@gmail.com	Adnan sani shaikh mursalin	Shri shivaji college akola	Zoology	9527704383	agree	Zoology	yes	yes	no
3/21/2021 12:44:25	azraanjumshaikh1234@gmail.com	Azra anjum Shaikh saleem	Shivaji college Akola	Zoology	9881284371	agree	Urbanization	yes	yes	No
3/21/2021 12:44:58	afifa.tazinkhan111@gmail.com	Afifa Tazin Khan Anis Khan	Shri Shivaji college of arts science and commerce Akola	Zoology	9834507169	strongly agree	Almost every topic was on point	yes	yes	We should do more webinars to spread awareness regarding the animal conservation , water saving, also tree saving. Etc.
3/21/2021 12:45:10	mishrarajshree82@gmail.com	Rajshree Mishra	Shivaji collage	Zoology	7219676692	agree	Selfi	yes	yes	No
3/21/2021 12:45:32	mahallerohitraj2001@gmail.com	Rohit R. Mahalle (Deshmukh)	Shri Shivaji College Akola	Zoology	7020347804	agree	World Sparrow Day celebration	yes	yes	No
3/21/2021 12:45:54	pallavirfuke2017@gmail.com	Pallavi Rameshwar Fuke	Shri. Shivaji college of arts , commerce &	Zoology	9130452732	strongly agree	Speech of Chief guest	yes	yes	Need of these comp

Criterion – I- Curricular Aspects [QIM – 1.3.1]

				science , akola							etitio n beca use to provi de water and food for bird in sum mer.
3/21/2 021 12:45:59	maseeraqureshi2000@gmail.com	Masira Fatema Intesar Hasan Qureshi	Shri shivaji clg of arts commerce and science Akola	Zoology	7620613813	strongly agree	I like all the topics are more <input type="checkbox"/>	yes	yes	yes	No
3/21/2 021 12:46:07	bhagyashrichavan308@gmail.com	Ku. Bhagyashri Tarasing Chavan	Shri. Shivaji College,Akola	Zoology	9049390468	strongly agree	implanting water pots for birds.....	yes	yes	yes	-
3/21/2 021 12:46:33	shambhusonone133@gmail.com	Narendra Vishwanath sonone	Shri Shivaji collage akola	Zoology	7507131203	strongly agree	Introductio n	yes	yes	yes	No
3/21/2 021 12:47:12	pawadekalyani6412@gmail.com	Kalyani Santosh Pawade	Shri shivaji college of arts commerce and science	Zoology	7083643353	strongly agree	Awarenes s about wildlife	yes	yes	yes	No
3/21/2 021 12:47:33	bhagyashrichavan308@gmail.com	Bhagyashri Tarasing Chavan	Shri. Shivaji College Akola	Zoology	9049390468	strongly agree	Implanting water pots for birds	yes	yes	yes	No
3/21/2 021 12:48:22	kanchandhanbhar120@gmail.com	Ku: kanchan santosh dhanbhar	Shri shivaji college akola	Zoology	9689412236	neutral	Yes	yes	yes	yes	No
3/21/2 021 12:49:00	azraanjumshaikh1234@gmail.com	Azra anjum Shaikh saleem	Shivaji college Akola	Zoology	8329100796	agree	Urbanizati on	yes	yes	yes	No
3/21/2 021 12:49:18	shaziakhanmasoodkhan00@gmail.com	Shazia khan D/O Maqsood Ahmed Khan	Shri Shivaji college Akola	Zoology	9209632738	strongly agree	It's their woldr too! Spread awareness to save our little friends before it's too late.	yes	yes	yes	Pleas e put water pots for thirst y birds.
3/21/2 021 12:49:28	naiyarakhan967328@gmail.com	Naiyara Tabassum Naseem Khan	Shri Shivaji college Akola	Zoology	8482820478	agree	Agree	yes	yes	yes	Good
3/21/2 021 12:52:07	azraanjumshaikh1234@gmail.com	Azra Anjum Shaikh Saleem	Shri Shivaji college of Arts commerce and science Akola.	Zoology	8329100796	agree	Every one Very nice	yes	yes	yes	No
3/21/2 021 12:52:47	shaziakhanmasoodkhan00@gmail.com	Shazia khan D/O Maqsood Ahmed Khan	Shri Shivaji college Akola	Zoology	9209632738	strongly agree	It's their woldr too! Spread awareness to save our little friends	yes	yes	yes	Pleas e put water pots for thirst y birds

Criterion – I- Curricular Aspects [QIM – 1.3.1]

								before it's too late			
3/21/2021 12:53:16	mohitgaikwad007@gmail.com	Mohit Gaikwad	Shivaji college Akola	Zoology	09158311774	strongly agree	All topics	yes	yes	All was nice	
3/21/2021 12:53:16	pradnyadongre95@gmail.com	Pradnya Vijay Dongre	Shri shivaji college Akola	Zoology	9767548206	strongly agree	Important of sparrow to ecosystem	yes	yes	No	
3/21/2021 12:55:58	khananamfirdos@gmail.com	Azra anjum Shaikh saleem	Shivaji college Akola	Zoology	9881284371	agree	Urbanization	yes	yes	No	
3/21/2021 12:56:31	masarratkashif2@gmail.com	Masarrat Jahan.Mohammad Kashif	Shri shivaji college of arts commerce & science,akola	Zoology	8999330119	agree	Common birds sharing the habitat	yes	yes	No.thank you	
3/21/2021 12:56:34	prashikabhagat199@gmail.com	Ku Prashika Yashavant Bhagat	Shree shivaji art's commerce science clg akola	M.sc 1year(sem 1) zoology department	7028626808	agree	All topics	yes	yes	No	
3/21/2021 12:57:45	pranavtivhane123@gmail.com	Pranav Ramesh Tivhane	Shri shivaji college of arts commerce and science akola.	Zoology	7620234588	strongly agree	All topics	yes	yes	No	
3/21/2021 12:57:55	nameerasaman@gmail.com	Nameera saman Shams ul haque	Shri shivaji college akola Maharashtra	Zoology	7447607254	strongly agree	S p sapkal sir told as easy way to understand student and realate to every people in this world the Sparrow one of the upistbirds holdest compainen .house Sparrow the most common bird in world .But past 5 year the birds are has been on tip of decline much of it natural range both in the urban as well as rural habitat .On our will be we need to know the health in risk which increasing amount of	yes	yes	Plz planting water pots every where you can save our thirty little friends .	

Criterion – I- Curricular Aspects [QIM – 1.3.1]

								micranve pollution on what is desimenting the population of house sparrow which w-excited with us so that can estimate the effect on all forms of life including our the house sparrow also represent the common bird and in sense conservati on house sparrow urbandiver sity.			
3/21/2021 13:01:07	pratikshasontakke78@gmail.com		Pratiksha Sanjay Sontakke	Shri Shivaji college of science Akola	Zoology	7083655795	agree	Implantatio n of thirsty birds	yes	y e s	No
3/21/2021 13:01:29	pateluzair620@gmail.com		Hafsa saman Abdul wajid	shri shivaji collage arts, com and science akola.	Zoology	9359471464	agree	House sparrow	yes	y e s	no
3/21/2021 13:01:50	nagulkarpriyanka9496@gmail.com		Priyanka kailas nagulkar	Shri Shivaji college of science akola	Zoology	7888042411	agree	Make sure that your children can experience the same lovely morning music as you did by protecting sparrows on the occasion of world sparrow Day	yes	y e s	No
3/21/2021 13:05:13	amreensaher786@gmail.com		Amreen saher Abdul kaleem	Shri shivaji college of arts commerce and science	Departme nt of zoology	7083237537	agree	Save birds save yourself	yes	y e s	Pleas e put the water pots for thirst y birds
3/21/2021 13:06:34	mehzub143@gmail.com		Mehwash Fatema Mohammad Zakir	Shri Shivaji college of Arts commerce and science, Akola	Departme nt of Zoology	8830920257	strongl y agree	Disappeari ng of sparrow	yes	y e s	No... thank s

Criterion – I- Curricular Aspects [QIM – 1.3.1]

3/21/2 021 13:09:	nidarparveen191@gmail.com	Nida parveen Naiyyar aziz khan	Shri shivaji college of arts commerce and Science, akola	Zoology	9021308121	agree	Wild Life and Environment Conservation Society	yes	yes	Everything is good
3/21/2 021 13:14:	Rutujagotmare799@gmail.com	Rutuja pralhad Gotmare	Shri shivaji college of Art commrece & science Akola	Zoology	9552620519	agree	Yes	yes	yes	No
3/21/2 021 13:14:	Rutujagotmare799@gmail.com	Rutuja pralhad Gotmare	Shri shivaji college of Art commrece & science Akola	Zoology	9552620519	agree	Yes	yes	yes	No
3/21/2 021 13:29:	meghaoimbe034@gmail.com	Megha Rajendra Oimbe	Shree shivaji college akola	Zoology	9881553308	strongly agree	When the winner are announced	yes	yes	No
3/21/2 021 13:32:	gauritale0506@gmail.com	Gauri Prabhakar Tale	Shri. Shivaji college of art's, commerce and science, Akola	Zoology	9767390993	strongly agree	To movite the peoples for conservati on of sparrows	yes	yes	Nothi ng
3/21/2 021 13:37:	vaishnavikangate200026@gmail.com	Vaishnavi Nandkishor Kangate	Shri. Shivaji college, Akola	Science	7888291614	strongly agree	Water implanting	yes	yes	No
3/21/2 021 13:41:	aniketbodhade12341@gmail.com	Aniket Rajendra Bodhade	Shri Shivaji College of Art, Commerce and Science Akola	Zoology	8805813948	strongly agree	Pot making for sparrow	yes	yes	All are good
3/21/2 021 13:47:	vaishudhole710@gmail.com	Vaishnavi Sopan Dhole	Shri Shivaji college, Akola	Zoology	8767842173	agree	About bird	yes	yes	No
3/21/2 021 13:50:	monikajadhao921843@gmail.com	Monika Dnyaneshwar Jadhao	Shri Shivaji College of Akola	Zoology	8308002672	agree	Save Birds	yes	yes	Nothi ng
3/21/2 021 13:52:	hariyafirdos24@gmail.com	Hariya firdos Mohammad fayaz	Shri Shivaji college Akola	Zoology	9420159410	agree	Yes	yes	yes	No
3/21/2 021 13:53:	pandav.jay14@gmail.com	JAYKUMAR GAJANAN PANDAV	Shri shivaji college Akola	Zoology	+19561759298	agree	Implament of thirsty birds	yes	yes	No
3/21/2 021 13:56:	gauravbhade290514@gmail.com	Gaurav Narayan Bhade	Shri Shivaji Collage Akola	Zoology	9529809396	strongly agree	Yes	yes	yes	No
3/21/2 021 14:02:	nazyiakhan2249@gmail.com	Naziya khan Mukhtar khan	Shiri shivaji collage Akola	Dept. Zoology	9765265691	agree	.	yes	yes	No
3/21/2 021 14:09:	Vaishnavianasane65@gmail.com	Vaishnavi Gajanan Anasane	Shri . shivaji college Akola	Zoology	9168467726	strongly agree	Arrangem ent of program is best	yes	yes	No
3/21/2 021 14:11:	sameekshamendhe1@gmail.com	Samiksha Milind Mendhe	Shri shivaji college	Zoology	9921630921	agree	Conservati on of birds	yes	yes	No thank s
3/21/2 021	subhashnage435@gmail.com	Subhash Murlidhar Nage	Shree shivaji college art,	Zoology	9356691634	strongly agree	Selfie with water pot	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

14:12:49			Commerce ,science Akola				thirsty bird☐☐			
3/21/2021 14:19:11	sakshithakare758@gmail.com	Sakshi Vijay Thakare	Shri Shivaji science College Akola	Zoology	9284814528	agree	Save birds save plant and save ecosystem	yes	yes	No
3/21/2021 14:19:28	anuradha.rajoria8@gmail.com	Anuradha Rameshchandra Rajoria	Shri Shivaji College of Arts Commerce and Science, Akola	Zoology	9968373177	strongly agree	Ppt presentation	yes	yes	No
3/21/2021 14:25:19	idriskhan9373@gmail.com	IDRIS KHAN JALIL KHAN	Shri shivaji college of Arts commerce and science Akola	Zoology	9373872151	strongly agree	Selfie with implanting water pots	yes	yes	No
3/21/2021 14:29:51	askqureshi9@gmail.com	Saleha Tabassum Mohammad Asif Qureshi	Shri shivaji college of arts, commerce and science, akola.	Zoology	8080747099	strongly agree	Sparrow life	yes	yes	No
3/21/2021 14:39:44	nehatayade884@gmail.com	Neha tayade	Shri. Shivaji college	Zoology	7821989021	strongly agree	Sparrow clrification	yes	yes	No
3/21/2021 14:58:59	shaziakhanmasoodkhan00@gmail.com	Shazia khan D/O Maqsood Ahmed Khan	Shri Shivaji college Akola	Zoology	9209632738	strongly agree	It's their world too spread awareness to save our little friends before it's too late	yes	yes	Please put water pots for thirsty birds
3/21/2021 15:02:24	sabasarvat2019@gmail.com	Saba sarvat sk Aarif	Shri Shivaji collage Arts commerce and science	Zoology	7972226546	agree	Birds flying	yes	yes	No
3/21/2021 15:03:46	monikarathod712@gmail.com	Ku.Monika Madhav Rathod	Shri.shivaji college Akola	Zoology	7666954996	strongly agree	Spreading message in society about thirsty birds☐	yes	yes	No
3/21/2021 15:16:08	nikitafokmare2019@gmail.com	Nikita Gopalkrushna Fokmare	Shri shivaji college of art, commerce and science akola	Zoology	9284190270	agree	i like all topics	yes	yes	No suggestion.
3/21/2021 15:27:51	khannaved570@gmail.com	Naved ullah khan ansar khan	shri shivaji college akola	zoology	9623254097	strongly agree	presentation of selfies with water pots for thirsty Bird	yes	yes	no
3/21/2021 15:33:01	davhale0502@gmail.com	Dnyaneshwari Pradip Avhale	Shri shivaji college akola	Zoology	9096981339	agree	concept	yes	yes	No
3/21/2021 15:52:15	zinharkhan8@gmail.com	Qudsiya Shaikh	Shri Shivaji arts comm science College Akola	Zoology	7264028671	strongly agree	Nothing	yes	yes	No
3/21/2021 16:45:27	moreashvini69@gmail.com	Ashvini siddharth more	Shri shivaji collage akola	Zoology	9307672055	agree	Disappear of sparrow	yes	yes	No

Criterion – I- Curricular Aspects [QIM – 1.3.1]

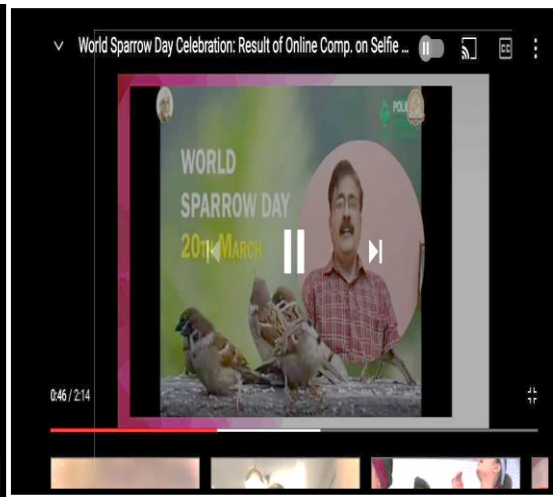
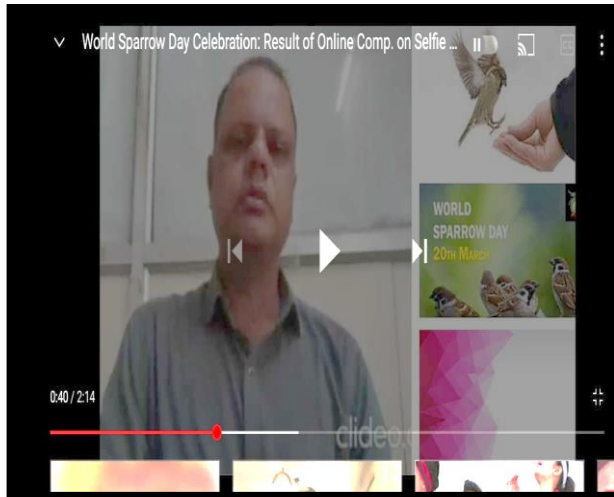
3/21/2021 16:55:13	gopalpatharkar2@gmail.com	Shivam Madhukar Patharkar	Shri shivaji college akola	Zoology	9850564540	strongly agree	Yes	yes	yes	No
3/21/2021 18:58:44	ashvinigawande1111@gmail.com	Ashvini Shriram Gawande	Shri Shivaji College Akola	Zoology	9022013100	strongly agree	Water pot	yes	yes	No
3/21/2021 19:32:30	panushka037@gmail.com	Anushka Vitthal Pawar	Shri shivaji college, Akola	Zoology	8080154524	agree	Importance of resources	yes	yes	No
3/21/2021 19:33:17	ishwariwankhade1311@gmail.com	Ishwari Chandrashekhar Wankhade.	Shri Shivaji college akola	Zoology	9370261630	strongly agree	Important of resources.	yes	yes	No
3/21/2021 19:33:50	rohininakola@gmail.com	Rohini Dharmaraj Nandagawali	Shri shivaji collage of arts,commers and science Akola	Zoology	7066903249	agree	-	yes	yes	No
3/21/2021 19:57:31	sumayyabano77@gmail.com	Sumayya bano	Shari Shivaji college akola	Zoology	7558371884	strongly agree	Birds	yes	yes	Best brids
3/21/2021 22:22:00	sakshimetkar0@gmail.com	Sakshi Ravindra Metkar	Shri shivaji college akola	Zoology	8856973632	neutral	Zoology	yes	yes	No
3/22/2021 8:13:32	suraiyya.parsuwale2690@gmail.com	Suraiyya yusuf parsuwale	shir shivaji collage Art,s commers science akola	zoology	9373449493	agree	Bird	yes	yes	No
3/23/2021 12:04:41	vaishnavig25401@gmail.com	Vaishnavi Raju Gadhave	Shri.Shivaji College of Arts Commerce and Science Akola	Zoology	7066463255	strongly agree	.	yes	yes	No
3/23/2021 12:08:56	sakshiwankhade318@gmail.com	Sakshi shivshankar Wankhade	Shri Shivaji college of art commerce and science Akola	Zoology	7499152198	agree	...	yes	yes	No
3/23/2021 12:26:16	katkarpratiksha85@gmail.com	Pratiksha Haridas Katkar	Shri shivaji clg of arts commerce and science Akola	Zoology	7057522375	agree	Water pot	yes	yes	No
3/23/2021 12:27:24	katkarpratiksha85@gmail.com	Pratiksha Haridas Katkar	Pratiksha Haridas Katkar	Zoology	7057522375	agree	Water pot	yes	yes	No
3/23/2021 19:12:11	thakaredipali522@gmail.com	Dipa Rajendra Thakare	Shri Shivaji college of science ,Akola	Zoology	9284984466	strongly agree	Awareness about nature and lives	yes	yes	No
3/20/2021 15:52:40	shwetamahore3@gmail.com	Shweta shantaram mahore	Shri shivaji arts commerce and science collage Akola	Zoology	8637799789	agree	Bird house guest	yes	yes	No
3/21/2021 15:01:20	shaziakhanmasoodkhan0@gmail.com	Shaziakhanmasoodkhan0@gmail.com	Shri Shivaji college Akola	Zoology	9209632738	strongly agree	It's their world too spread awareness to save our little friends	yes	yes	Please put water pots for thirst

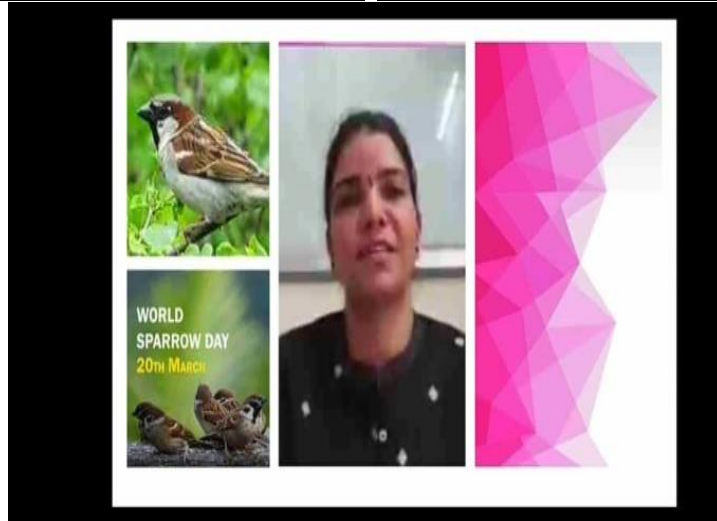
Criterion – I- Curricular Aspects

[QIM – 1.3.1]

			d Khan	Ak ola				before it's too late		y birds	
										Sparr ow is a lovely beaut iful and social birds found every wher e in our surro undin gs. Now a days the due to differ ent reaso ns numb ers of Sparr ows are reduc ing day by day. In this articl e i am provi ding impor tant infor matio n relate d to Sparr ows and impor tant tips to save sapp ow. 1) Arran geme nt shoul d be made for the avail ability	
3/21/2021 12:47:40	poojadhote1 973@gmail.c om		Ku. Pooja Pramo Dhote	Shri shivaji college of art s com merce and scienc e Akola	Zoology	7758020257/ 9960876474	strongly agree	Save birds, save environme nt and save life	yes	yes	

										of food grains and water for Sparrows. 2) Try to minimize pollution as much as possible. 3) Minimize the use of your cell phone. If possible use anti-radiation cover to protect your selves and to protect environment.
3/21/2021 12:47:10	vaishnavik29@gmail.com		Vaishnavi vinayak kale	Shri shivaji college of arts, commerce and science, Akola.	Zoology	7249071604	strongly agree	Implanting Water Pot For Thirsty Birds on the Eve of World Sparrow Day	yes	yes No







Sparrow would always
make us feel happy
playing in our gardens or
spending some good time
in our balconies.
Warm wishes on world
Sparrow Day.

POOJA DHOTE BSC II YEAR

