

University syllabi showing
incorporation of crosscutting issues
like, professional ethics, gender issues, environment
and sustainability and human values

42

27. 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.
- . 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)

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.
 - 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.
- 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.
 - Disaster 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.
 ii) Contents of the syllabys mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
 iii) Contents of the syllabys mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

LIST OF REFERENCES :-

- 1) Agarwal, K.C., 2001, Environmental Biology, Nidi Publ. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India, Email : mapin@icenet.net (R)
- 3) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
- 4) Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- 5) Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T., 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p.
- 6) De A.K., Environmental Chemistry, Wiley Eastern Ltd.
- 7) Down to Earth, Centre for Science and Environment (R)
- 8) Gleick, H.P. 1993, Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press. 473p.
- 9) Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural Histroy Society, Mumbai (R)
- 10) Heywood, V.H. & Watson, R.T. 1995, Global Biodiversity Assessment, Cambridge Univ. Press 1140p
- 11) Jadhav, H & Bhosale, V.M. 1995, Environmental Protection and Laws, Himalaya Pub. House, Delhi. 284 p.
- 12) Mckinney, M.L. & Schoch, R.M. 1996, Environmental Science Systems & Solutions, Web Enhanced Edition. 639 p.
- 13) Mhaskar A.K., Matter Hazardous, Techno-Science Publications (TB)
- 14) Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
- 15) Odum, E.P., 1971, Fundamentals of Ecology, W.B.Saunders Co., U.S.A., 574p.
- 16) Rao M.N. & Datta A.K., 1987, Waste Water Treatment, Oxford & IBH Publ. Co. Pvt. Ltd. 345 p.
- 17) Sharma B.K., 2001, Environmental Chemistry, Goel Publ. House, Meerut.
- 18) Survey of the Environment, The Hindu (M)
- 19) Townsend C., Harper J., and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
- 20) Dr. Deshpande A.P., Dr. Chudiwale A.D., Dr.Joshi P.P. & Dr. Lad A.B. : Environmental Studies, Pimpalpure & Company Pub., Nagpur.
- 21) डॉ. विठ्ठल घारपुरे : पर्यावरणशास्त्र, पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपूर.
- 22) Trivedi R.K., Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, Vol. I and II, Enviro Media (R)
- 23) Trivedi R.K. and P.K. Goel, Introduction to Air Pollution, Techno-Science Publications (TB)
- 24) Wagner K.D., 1998, Environmental Management, W.B.Saunders Co., Philadelphia, USA 499p.

(M) Magazine

(R) Reference

(TB) Textbook

- 25) Environmental Studies : R.Rajgopalan, Oxford Uni. Press, New Delhi, 2005
- 26) Environmental Chemistry and Pollution by Dr.N.W.Ingole, D.M.Dharmadhikari, Dr.S.J.Patil, Dasganu Prakashan, Nagpur.

**%SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
ORDINANCE NO. 42 OF 2005**

Examination in Environmental Studies leading to Bachelor Degree, Ordinance, 2005

Whereas it is expedient to frame an Ordinance relating to Examination in Environmental Studies leading to Bachelor Degree level, hereinafter appearing, the Management Council is hereby pleased to make the following Ordinance.

1. This Ordinance may be called "Examination in Environmental Studies leading to Bachelor Degree, Ordinance, 2005."
2. This Ordinance shall come into force from the Academic session 2005-06.
3. In this Ordinance and in other ordinances relating to the examination, unless there is anything repugnant in the subject or context :-
 - (i) "Academic session" means a session commencing on such date and ending with such date of the year following as may be appointed by the Management Council.
 - (ii) "Admission to an examination" means the issuance of an admission card to a candidate in token of his having complied with all the conditions laid down in the relevant ordinance, by a competent officer of the University.
 - (iii) "Applicant" means a person who has submitted an application to the University in the form prescribed for admission to an examination.
 - (iv) "Candidate" means a person who has been admitted to an examination by the University.
 - (v) "Regular Candidate" means an applicant who has applied for admission to a University examination through an affiliated college, Department or Institute in which he/she has prosecuted a regular course of study.
 - (vi) "Examinee" means a person who presents himself/herself for an examination to which he/she has been admitted.
 - (vii) "Examination" means an examination prescribed by the University under the relevant Ordinance.
 - (viii) "External Candidate" means a candidate who is allowed to take a University examination in accordance with the provision of Original Ordinance No. 151.
 - (ix) "Non-Collegiate Candidate" means a candidate who is not a collegiate candidate.

% Amended by Ordinance No. 7 of 2006, and 10 of 2007.

- (x) An "Ex-student" is a person who having once been admitted to an examination of this University, is again required to take the same examination by reason of his failure or absence thereat and shall include a student who may have joined a college, Department or Institute again in the same class.
 - (xi) "Bachelor Degree Examination" means an examination leading to Bachelor Degree of the University.
 - (xii) "Previous Year" means a year following by final year of Bachelor Degree.
4. Save as otherwise specifically provided, the conditions prescribed for admission to the examination under this Ordinance shall apply to all persons who wish to take the examination to the Degrees of the University mentioned in para 5 below.
 5. The conditions prescribed for admission to examination under this Ordinance shall apply to following degrees of the University :-
 - 1) Bachelor of Arts
 - 2) Bachelor of Performing Arts
 - 3) Bachelor of Fine Arts
 - 4) Bachelor of Mass Communication
 - 5) Bachelor of Social Work
 - 6) Bachelor of Commerce
 - 7) Bachelor of Business Administration
 - 8) Bachelor of Science
 - 9) Bachelor of Computer Science
 - 10) Bachelor of Computer Applications
 - 11) Bachelor of Pharmacy
 - 12) Bachelor of Science (Home Science)
 - 13) Bachelor of Technology (Cosmetics)
 - 14) Bachelor of Engineering
 - 15) Bachelor of Engineering (Part Time) (Civil)
 - 16) Bachelor of Textile
 - 17) Bachelor of Technology (Chemical Technology)
 - 18) Bachelor of Technology (Chemical Engg.)
 - 19) Bachelor of Architecture, and
 - 20) Bachelor of Laws (Five Year Course)

B.Sc. Final (Sem-V & VI)
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Text Books for Sem V & VI :

1. Bilings, M.P. (1997) Structural Geology. Prentice-Hall of India Pvt. Ltd., New Delhi.
2. Park, R.G. (1989) Foundations of Structural Geology. Blackie, New York.
3. Gokhale, N.W. (2001) Theory of Structural Geology. Blackie, New York.
4. Gokhale, N.W. (1991) A Manual of Problems of Structural Geology. CBS Publishers.
5. Lahi, F.H. (1987) Field Geology, CBS Publishers.
6. Gokhale, N.W. (2001) A Guide to Field Geology. CBS Publishers.
7. Chiplonkar G.W.: Geological Maps, Dastane Ramchandra Publication, Pune
8. Valdiya, K.S. (1987) Environmental Geology - Indian Context, Tata McGraw Hill.
9. McKinstry, H.E. (1972) Mining Geology. Prentice- Hall Inc.
10. Arogyaswamy, R.N.P. (1995) Courses in Mining Geology. Oxford and IBH Publishing Co., New Delhi.
11. Bagchi, T.C., Sen Gupta, D.K. and Rao, S.V.L.N. (1979) Elements of Prospecting and Exploration. Kalyani Publishers, New Delhi.
12. Dobrin, M.B. (1952) Introduction to Geophysical Prospecting. McGraw Hill.
13. Pande, S.N. (1987) Principles and Applications of Photogeology . Wiley Eastern Limited.
14. Sabins, F.F. (2000) Remote Sensing Principles and Interpretations. W.H. Freeman and Company, USA.
15. Lillesand, T.M. and Kiefer, R.W. (2000) Remote Sensing and Image Interpretation. John Wiley and Sons Inc., New York.
16. Drury, S.A. (1997) Image Interpretation in Geology. Chapman and Hall, London.
17. Todd, D.K. (1980) Ground Water Hydrology. John Wiley and Sons Inc. New York.
18. Karanth, K.R. (1989) Hydrogeology. Tata McGraw Hill Pub.Co.Ltd., New Delhi.
19. Nagabhushaniah, H.S. (2001) Groundwater in Hydrosphere (Groundwater Hydrology) CBS Publisher, New Delhi.
20. Karanth K.R. Groundwater, Assessment, Development and Management. Tata McGraw Hill Pub. Co. Ltd., New Delhi.
21. Raghunath : Ground Water Hydrology, New Age Publication, Pune

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

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

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

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

5S - BOTANY

PLANT PHYSIOLOGY AND ECOLOGY

Unit - I: Plant Water Relations

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

Unit - II: Metabolism-

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

Unit - III: Metabolism and growth

- 3.1 Nitrogen Metabolism- Sources of nitrogen, Symbiotic nitrogen fixation, Role of Nitrate reductase.
- 3.2 Growth - Phases of growth, Growth curve, Physiological role of growth hormones (Auxins, Gibberellins, Cytokinins, Absciscic 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: Ecology

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

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

6.4 Types of Ecosystem- Pond ecosystem, Desert ecosystem.

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

1. To study the effect of temperature and organic solvent on permeability of plasma membrane.
2. To study osmotic pressure of cell sap by plasmolytic method.
3. To determine water potential of plant tissue.
4. To determine the path of water (ascent of sap)
5. To determine the rate of transpiration by Ganong's 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 Ganong's 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 Ganong's 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)

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dimensional box and its extension to a three-dimensional box. Concept of atomic orbital. (v) Numericals. [14]

Unit VI**14L**

A] Electrochemistry: (i) Types of electrode - Standard hydrogen electrode, Calomel electrode, Quinhydrone electrode and Glass electrode. Principle of Potentiometric titration. Study of acid-base, redox and precipitation titration. (ii) pH of a solution and pH scale. Determination of pH of a solution using hydrogen, quinhydrone and glass electrodes. Advantage and disadvantage of these electrodes. pH-metric titrations. Determination of pKa of a weak acid by pH-metric measurement. (iii) Concentration cells - Types of concentration cells, concentration cell without transfer and determination of its emf. (iv) Numericals [6]

B] Nuclear Chemistry: (i) Shell model of a nucleus - Assumptions, evidences for existence of magic numbers, advantages and limitations. (ii) Liquid drop model of a nucleus - Assumptions, similarities between nucleus and liquid drop, advantages and limitations, explanation of nuclear fission reaction on the basis of liquid drop model. (iii) Nuclear force and its explanation on the basis of Meson theory. (iv) Characteristics of nuclear reaction, difference between nuclear and chemical reactions. Calculation of Q value of a nuclear reaction. (v) Characteristics of nuclear fission reaction, fission yield, Fission reaction as an alternative source of energy. (vi) Nuclear fusion reaction - Characteristic of a nuclear fusion reaction. Thermonuclear reactions as a source of energy of sun and other stars. Fusion reactions as a potential future source of energy. (vii) Applications of radio isotopes in industry, agriculture, medicines and bio-sciences with two examples each. (viii) Numericals. [8]

Semester- VI**6S Chemistry Practicals****Total Laboratory sessions: 26****Marks: 50****Exercise I: Organic Chemistry Experiments: 16 Laboratory sessions**

1. Estimation of formaldehyde.
2. Estimation of glycine.
3. Estimation of ascorbic acid (vitamine C).
4. Estimation of phenol by bromination method.
5. Estimation of aniline by bromination method.
6. Estimation of urea by hypobromite method.
7. Estimation of unsaturation by bromination method.
8. Determination of iodine value of oil.
9. Determination of equivalent weight of an ester by saponification.
10. Separation of a mixture of methyl orange and methylene blue by thin layer chromatography (using benzene).

11. Separation of a mixture of 2,4-dinitro phenyls of acetaldehyde and benzaldehyde by thin layer chromatography (using benzene : petroleum ether = 3:1).
12. Separation of a mixture of dyes by thin layer chromatography (using cyclohexane:ethyl acetate = 8.5:1.5).
13. Separation of a mixture of 2,4-dinitro phenyls of acetaldehyde and benzaldehyde by thin layer chromatography (using toluene: petroleum ether).

Exercise II: Physical Chemistry experiments 10 Laboratory sessions

1. To determine dissociation constant of weak acid by conductometry.
2. To determine dissociation constant of weak acid by potentiometry.
3. To study potentiometric titration of KCl and AgNO₃.
4. To determine dissociation constant of dibasic acid by pH-metry.
5. To verify Beer's Lambert's law using KMnO₄/K₂Cr₂O₇.
6. To determine pH of a soil sample by pH-meter.
7. To determine solubility and solubility product of sparingly soluble salts conductometrically.
8. To study strong acid and strong base titration by pH-metry.

Distribution of Marks for Practical Examination**Time: 6 hours (One Day Examination)****Marks: 50****Exercise-I****18****Exercise-II****18****Viva-Voce****07****Record****07****Total: 50****Books Recommended: (Common for Semester V and Semester VI)**

1. Principles of Inorganic Chemistry by Puri, Sharma and Kalia- S. Naginchand & Co., Delhi.
2. Text book of Inorganic Chemistry by A.K. De, Wiley East Ltd.
3. Selected Topics in Inorganic Chemistry by Malik, Tuli and Madan- S. Chand & Co.
4. Modern Inorganic Chemistry by R.C. Agrawal, Kitab Mahal.
5. Instrumental Methods of analysis by Chatwal and Anand, Himalaya Publishing House.
6. Concise Inorganic Chemistry by J.D. Lee, ELBS.
7. Inorganic Chemistry by J.E. Huheey- Harper & Row.
8. Fundamental concepts of Inorganic Chemistry by E.S. Gilreath, McGraw Hill book Co.
9. Modern Inorganic Chemistry by W.L. Jolly, McGraw Hill Int.
10. Chemistry Facts, Patterns & Principles by Kneen, Rogers and Simpson, ELBS.

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**B.SC. FINAL, SEMESTER-V
10 : ZOOLOGY**

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

**Theory -5 S-ZOOLOGY:
(ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY)**

	Marks Allotted
1) Written examination	80
Internal assessment	20
2) Practical:	50
Total:	150 Marks

**Paper 5 S-ZOOLOGY
(ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY)**

Max. Marks - 100 Total

Period - 75

UNIT I : Respiration:

Structure of respiratory organs: Gills and Lungs

Mechanism of respiration: regulation of ventilation in lungs, exchange of gases at respiratory surface, Respiratory pigments in animals: Haemoglobin, Haemocyanin, Haemerythrin, chlorocruorin. Transport of gases: O₂ and CO₂ transport, Neurophysiologic control of respiration,

Circulation:

Blood : Definition and its constituents, functions of blood. Heart: Structure of human heart, pace maker, Cardiac cycle. Blood coagulation factors, blood groups A, B, O system and Rh-factor.

UNIT II: Muscle Physiology:

Types of Muscles: striated, non-striated and cardiac muscles

E.M. Structure and **Chemical** Composition of striated muscle, Neuromuscular junction.

Mechanism of muscle contraction by Sliding filament theory

Physical and Chemical changes during muscle contraction: muscle twitch, tetanus, isometric and isotonic contraction, summation of Stimuli, all or none law, fatigue, rigor mortis.

UNIT III : Nerve Physiology: Neuron: E.M. Structure of neuron and Types : Myelinated and non-Myelinated nerve fibres.

Conduction of Nerve impulse, Resting potential, initiation and propagation of action potential, Saltatory transmission, Neurotransmitters (Acetylcholine, dopamine, GABA, Serotonin, Epinephrine, Nor-Epinephrine), Synapse and synaptic transmission

Chemical co-ordination: Endocrine system: Hormones and their physiological roles of-

Pituitary, Thyroid, Parathyroid, Adrenal, Islets of Langerhan's, Hormonal disorders: Dwarfism, Gigantism, Acromegaly, Goiter, Myxoedema, Cretinism, Osteoporosis,

UNIT IV : Reproductive Physiology: Estrous and menstrual cycle, hormonal control of reproduction in males and female, Structure and physiology of mammalian Placenta.

Homeostasis and conservative regulation: Osmoregulation and ionic regulation in aquatic animals. Osmoregulation in terrestrial animals Ammonotelism, ureotelism and uricotelism.

Thermoregulation in Poikilotherms and Homeotherms.

UNIT V : Agricultural Zoology: Economic importance of Insects

Beneficial insects - Spider, Mantis, Ladybugs, Damsel bug, Mealybug destroyer, Soldier beetle.

Green lacewing, Syrphid fly, Tachinid fly, Ichneumon wasp

and Trichogramma wasp.

Harmful Insects – Stored food grain pests, their injuries and control

Pests of, – Cotton, Sugarcane and Jowar. Damage and Control
Economic importance of Rodents, Snakes, Owls and Bats.
Apiculture - Sericulture -

Unit VI : **Aquaculture**

Aquaculture: definition, scope, importance and present status in India.

Fresh water fish culture: types of fish ponds: Nursery, rearing and stocking, design and construction of fish pond, fertilizers used for fish development.

Hatching Hapas, Chinese Circular Hatchery, CIFE, Mumbai, hatching model, Induced breeding and hypophysation, Modern drugs used in fish breeding.

Freshwater system: monoculture, polyculture, integrated aquaculture, cage culture, pen culture. Fish products and byproducts: Fish liver Oil, Fish body oil, Fish manure, Fish leather

Special Note : (Common for B.Sc.Sem-I & VI)

- (i) Use of animals for practical purpose in this curriculum is subject to the conditions, under the Wild Life (Protection) Act 1972 and should abide by the prevention of cruelty to animals Act 1960. No any scheduled animal species should be used in the laboratory.
- ii) The research based project on animals should strictly abide by the rule as mentioned in para-6 of U.G.C. Notification No.F.14-6/2014 (CPP-II), dated 1st August, 2014, which state that –
 - 6.1 All institutions of Higher Education shall constitute 'Dissection Monitoring Committees' (DMC) to ensure strict compliance of instructions relating to the use of animals for research purposes only;
 - 6.2 The Head of the concerned department shall be the Convener and Chairperson of DMC. Two Senior faculty members of the concerned department, one faculty member

of a related department from the same institution and one or two Faculty members of the concerned department from the neighboring institution(s) shall be members of DMC.

- 6.3 The tenure of DMC shall be two years and on expiry of a term, the DMC should be reconstituted wherein only the Convener and Chairperson (The Head of the Department) may continue for two or more terms if he/she happens to continue to be the Head of the Department. A vacancy arising during the tenure of DMC shall be filled with a faculty belonging to the respective category. The quorum for the meeting shall be 3 out of 6, where in at least one member from the neighboring institution must be present. The DMC shall meet at least once each semester/ half year and approve/ review alternative experimentation of animals for laboratory exercises.
- 6.4 It shall be the responsibility of the DMC to ensure that animals that are permitted to be used for dissections / experiments in the instructions herein are procured from ethical sources, and not removed from the wild, transported to the laboratory without stress or strain to the animals, if live, and anaesthetized appropriately if they are to be used in dissections.
- 6.5 The DMC shall ensure that the institution maintains appropriate records of procurement of animals, their transport, number of animals used, use of anesthesia/ euthanasia etc.
- 6.6 The DMC shall be different from the Institutional Animal Ethics Committee (IAEC), under the purview of Committee for purpose of care and supervision of experimental animals (CPCSEA), Department of Environment and Forest, Govt. of India. However, the DMC shall not have powers to overriding the powers of IAEC. For animals covered by the IAEC, with standard operating procedures (SOPS) for IAECs prescribed by CPCSEA will apply.

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

Prospectus No. 2015122

संत गाडगेबाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान विद्याशाखा
(FACULTY OF SCIENCE)

अभ्यासक्रमिका

विज्ञान स्नातक भाग-२

सत्र-३ व ४, परीक्षा

PROSPECTUS
OF

B.Sc. Part-II

Semester-III Examination Winter-2014, and

Semester-IV Examination Summer-2015



2014

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Semester IV

1) Paper-I:	Marks Allotted
Advanced Genetics and Animal Ecology.	
Written examination 3 3 ..	80
Internal assessment 3 3 .	20
2) Practical:	50
Total:	150 Marks

ZOOLOGY Paper 4S
ADVANCED GENETICS AND ANIMAL ECOLOGY

UNIT I : Concept of genes.

Mendel's laws of hereditary - Monohybrid - Laws of dominance, law of segregation. Dihybrid cross - Law of

independent assortment. Interactions of genes: , Supplementary factor, complementary factor, duplicates factor, inhibitory factors, and lethal factors - dominant and recessive.

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

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

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

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

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

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

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

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

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

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

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

Biotic factors:

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

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

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

Appendix – 'H'

**Syllabi for B.A. Part-II
Semester-III
Subject : Political Science
(Implemented From 2018-2019 Session)**

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I**
- Salient features of the Constitution of U.K.
 - Historical Background of Crown.
 - Powers of the Crown.
 - Prime Minister – Appointment, Role and Function.
 - Cabinet – Structure and Function

Unit-II Parliamentary System of U.K.

- House of Lords – Composition, Powers and Functions (with Reference to Constitutional Reforms Act-2005)
- House of Commons – Composition, Powers and Functions
- Role of Opposition and Shadow Cabinet.

- Unit-III**
- Salient features of the Constitution of U.S.A.
 - President – Election Process, Powers and Functions.
 - Cabinet – Structure and Functions.
 - Vice-President – Election Process, Powers and Functions.

Unit-IV Legislature of U.S.A. – Congress.

- Senate – Composition, Powers and Functions.
- House of Representative – Composition, Powers and Functions
- Supreme Court – Composition, Powers and Functions.

- Unit-V** South Asian Association for Regional Co-operation (SAARC)
- Objectives
 - Structure
 - Function.

Distribution of Internal Marks

- | | | |
|---------------------|-----|----------|
| i) Group Discussion | ... | 10 Marks |
| ii) Project | ... | 10 Marks |

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयाँ. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे- | चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

Semester-IV (B.A.-II)

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I** i) Salient features of the Constitution of China (1982).
ii) National People Congress (NPC) – Composition, Powers and Functions.
iii) Standing Committee – Composition, Powers and Functions.

- Unit-II** i) President of China – Appointment, Role and Functions
ii) State Council of China – Composition, Powers and Functions
iii) Prime Minister of China - Appointment, Role and Functions.
iv) Role of Communist Party in China.

- Unit-III United Nations Organization (UNO) :**
i) Charter
ii) Aims and Basic Principles.
iii) General Assembly of UNO – Composition and Functions.

- Unit-IV** i) Security - Council of UNO – Composition and Functions
ii) Secretary General – Appointment, Powers and Functions.
iii) International Court of Justice – Composition and Powers.

- Unit-V** Indo-China Relations – Major Issues :
i) Tibet Dispute.
ii) Role of China about India in UNO.
iii) Impact of Chinese goods and market on Indian Economy.

Distribution of Internal Marks

- | | | |
|---------------------|-----|----------|
| i) Group Discussion | ... | 10 Marks |
| ii) Project | ... | 10 Marks |

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयाँ. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे- | चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

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 - Shaugknessy, 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.

Appendix-H

Syllabi for B.A. Final

Semester-V

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

Marks : Theory - 80

In.Ass - 20

Unit-I Leadership :

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

Unit-II Reservation

- Meaning and Nature of Indian Reservation Policy.
- Reservation in Indian Parliament.
- Reservation and Politics in India.

Unit-III Nationalism

- Meaning and Nature of Nationalism.
- Factors of Nationalism
- Present Status of Indian Nationalism.

Unit-IV Communalism

- Meaning of Communalism.
- Role of Communalism in Indian Politics.
- Present Status of Communalism in India.

Unit-V Terrorism

- Meaning and Definition of Terrorism.
- Kinds of Terrorism
- The Acts for Prevention of Terrorism in India.

Internal Assessment of Marks (20 Marks)

- Group Discussion Related to Syllabus ... 10 Marks
- Paper Presentation OR P.P.T Presentation 10 Marks
Related to Syllabus

Books Recommended :

- पवार, प्रकाश - भारतीय राजकारण आणि नेतृत्वाची वाटचाल, डायमंड पब्लिकेशन, नारायणपेठ, पुणे, जानेवारी-२०१४
- देशमुख, सुधाकर - राष्ट्र आणि राष्ट्रवाद (संकल्पना आणि विकास), पद्मगंधा प्रकाशन, एरंडवन पुणे, मार्च - २००९.
- डॉ.पळशीकर, सुहास - समकालीन भारतीय राजकारण (काँग्रेस वर्चस्व ते हिंदू जमातवाद)
- मोदि, महावीरप्रसाद व डॉ. सरोज मोदि - भारतीय राजनीती की प्रकृतियों (Trends of Indian Politics) कॉलेज बुक डेपो प्रकाशन, जयपूर, १९९९.
- डॉ.जैन, पुखराज व डॉ. पडीयार, बी.एल. - भारतीय शासन एवं राजनीती, साहित्य भवन प्रकाशन, २०१२.
- त्रिपाठी, विपीनकुमार - जनमुखी राष्ट्रवाद, पद्मभाव मिशन प्रकाशन, नई दिल्ली, जुलाई-२००२.
- डॉ.शर्मा, हरिओम - ग्रामिण नेतृत्व के उभरते परिमाण, अर्जून पब्लिशिंग हाऊस, दरियागंज, नई, दिल्ली, प्रथम संस्करण - २००४.
- डॉ. भोळे, भास्कर लक्ष्मण- भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर, २००३.
- आंबेडकर, बाबासाहेब - पाकिस्तान अर्थात भारताची फाळणी, रघुवंशी प्रकाशन, पुणे.
- चव्हाण, प्रविण व दिवाकर, वैशाली - भारतीय राष्ट्रवाद : सिध्दांत आणि व्यवहार, प्रविण चव्हाण प्रकाशन, पुणे २०००.
- काणे, पा.वा. - धर्मशास्त्राचा इतिहास, सारांश ग्रंथ, महाराष्ट्र साहित्य मंडळ, मुंबई.
- डॉ.सुभाष गवई, डॉ. आर.एन. फुलारी, प्रा.विनय कोडापे - दहशतवादाचे विविध आयाम, वेदमुद्रा प्रकाशन, अमरावती.
- डॉ. के.एच.वासनिक (संपादक) - आंतकवाद के विविध आयाम, गायत्री प्रकाशन, रिवा (मध्यप्रदेश), २६ जानेवारी, २०११.

- 14) Dr. Hegde, M.D. - Backward Class Movements in india, Jawahar Publishers, New Delhi First Edition- 2013.
 15) Dr. Sharma, Harish - Future Tense in Naxal Fight, Aarti Prakashan, New Delhi, 2011.
 16) Dr. Suryavanshi, P.H. - Recent Trends in Indian Politics, Gaurav Publication, Kanpur-2016.
 17) Asirvadani, E. - Political Theory, The Uper India Pub. House, Lucknow, 1961.
 18) Johari, J.C. - Principles of Modern Political Science, Sterling Pub., New Delhi-1989.
 19) Dr. Shriram Yerankar - Secularism in India, Theory and Practice, Adhyayan Pub., Delhi. 2006.

**Syllabi for B.A. Final
Semester-VI
Concepts of Western and Indian Thinkers**

Marks : Theory - 80
In.Ass - 20

Unit-I : Concept of State :

- a) Aristotle - Classification of State.
 b) M.K. Gandhi - Concept of Ramrajya.

Unit-II : Concept of Democracy :

- a) Walter Bagehot - Concept of Democracy
 b) Abraham Lincoln - Concept of Democracy
 c) Dr. B.R. Ambedkar - Parliamentary Democracy.

Unit-III : Concept of Nationalism :

- a) Niccolo Machiavelli - Concept of Nationalism
 b) Swami Vivekananda - Concept of Nationalism
 c) V.D. Sawarkar - Concept of Nationalism

Unit-IV : Concept of Socialism :

- a) Karl Marx - Concept of Socialism
 b) Pt. Jawaharlal Nehru - Concept of Socialism
 c) Ram Manohar Lohiya - Concept of Socialism

Unit-V : Concept of Behaviouralism and Sovereignty :

- a) David Easton - Concept of Behaviouralism
 b) Gabriel Almond - Concepts of Post Behaviouralism
 c) John Austin - Concept of Sovereignty.

Internal Assessment of Marks (20 Marks)

- | | | |
|---|-----|----------|
| 1) Bibliography Related to Syllabus | ... | 10 Marks |
| 2) Home Assignment (Any One)
Related to Syllabus | ü | 10 Marks |

Books Recommended :

- 1) Francis W. Coker - Recent Political Thought, The World Press Pvt. Ltd.
 2) George H. Sabine - A History of Political theory, George G. Harrap & Company Ltd. London.
 3) C.L. Wayer - Political Thought, S.T. Paul, Honce Warwick Lane London, Ec,4.
 4) V.D.Mahajan & R.R.Seth - Recent Political Thought, Premier Publishing Co. Delhi.
 5) Radhey Sham Chourasia - History of Western Political Thought - Volume I & II
 6) Suda, J.P. - History of Political Thought.
 7) श्रृंगारपुरे, प्रा. अरविंद - पाश्चिमात्य राजकीय विचारवंत, श्री मंगेश प्रकाशन, नागपूर

**Syllabi of B.A. Part-II
Semester-III & IV
(Implemented from 2018-2019 Session)
(History)**

Instructions for Both Semester I to IV of B.A. Part-I& Part-II

- (1) Students will have to Solve TWO (2) Long Questions from any Two of Five Units. Each of these Long Question carries SIXTEEN (16) Marks. Internal Choice is available from same unit.
- (2) Students will have to Solve EIGHT (8) Short Questions in all choosing four questions from each of Two units out of Total Five Units. Each of these Short Question Carries FOUR (4) Marks. Internal Choice is available from same unit.
- (3) Students will have to Solve SIXTEEN (16) Multiple Type Questions from all the Five Units. Each of these Short Question Carries ONE (1) Mark. No Internal Choice is available.

Distribution of Internal 20 Marks

- (1) TEN (10) Marks to be awarded by the Teacher concerned on ASSIGNMENT submitted by the Student. ASSIGNMENT is based on the syllabus.
- (2) TEN (10) Marks to be awarded by the Teacher concerned on student's performance in VIVA-VOCE which is based on the syllabus.

**B.A.Part-II
Semester-III
(History of India From 1526 A.D. to 1756 A.D.)
(Implemented from 2018-2019 Session)**

Time : 3 Hours)

Marks : 80

Int.Ass. : 20

Unit-I

1. Survey of the Sources of Medieval India :

- 1.1 Archaeological, Epigraphic and Numismatic Materials and Monuments.
- 1.2. Literary Sources-Persian, Sanskrit and Regional Languages.

2. Establishment and Consolidation of Mughal Empire :

- 2.1 Babar
- 2.2 Akbar
- 2.3 Shershaha Suri
- 2.4 Aurangzeb

3. Mughal Polity :

- 3.1 Administrative Structure
- 3.2 Manasabdari
- 3.3 Jagirdari

Unit-II

1. Mughal Ruling Classes :

- 1.1 Ulema
- 1.2 Nobility
- 1.3 Jamindar

2. Mughal's Relation with Indian Power :

- 2.1. Mughal's Relation with Rajput with special reference to Akbar and Aurangzeb

3. Decline of Mughal Empire :

- 3.1 Political, Administrative Causes
- 3.2 Social, Economic and Religious Causes
- 3.4 Effects of Decline of Mughal Empire

Unit-III

1. Mughal Economy :

- 1.1 Agricultural Production and Management of Water Recourses
- 1.2 Trade and Commerce, Urban Centers and Industries
- 1.3 Monetary System

2. Mughal Society :

- 2.1 The Village Community and Peasantry , Agricultural Labor and Slaves
- 2.2 Urban Social Structure , Merchants, Bankers, Artisans, Craftsmen and Laborers
- 2.3 Status of Women and their Rights, Parda, Dasi, Sati

3. Religion :

- 3.1 Sufis, Sant Tradition
- 3.2 Sikh, Kabirpanthis, Vaishnava Bhakti

4. Cultural Life :

- 4.1 Education in Mughal period
- 4.2 Literature- Persian, Sanskrit and Regional Language

Unit-IV

1. Sources of Maratha History

- 1.1 Archaeological, Epigraphic and Numismatic Materials and Monuments.
- 1.2. Literary Sources-Bakhars,Adnyapatra,Shakavali

2. Emergence of Maratha Power

- 2.1 Political, Social, Religious and Economic Condition before rise of Maratha
- 2.2 Causes of Rise of Maratha Power

3. Maratha Power Under Shivaji

- 3.1 .Shivaji's Relations with Adilshahi
- 3.2. Shivaji's Relations with the Mughals
- 3.3. Significance of Shivaji's Coronation

4. Maratha Power Under Sambhaji

- 4.1 .Sambhaji's Relations with the Portuguese
- 4.2. Sambhaji's Relations with the Siddis of Janjira
- 4.3. Sambhaji's Relations with the Mughals

5. The Maratha War of Independence

- 5.1. The Maratha War of Independence under Rajaram
- 5.2. The Maratha War of Independence under Tarabai

Unit-V

1. Political Administration Under Maratha

- 1.1 Central Administration, Ashta Pradhan Mandal
- 1.2 Provincial and Village Administration

2. Military System Under Maratha

- 2.1 Infantry, Cavalry, Navy
- 2.2 Secret Intelligence System of Shivaji

3. Judicial Administration Under Maratha

- 3.1 Judicial Structure and Procedure
- 3.2 Crimes and Punishment

4. Fiscal Administration of Maratha

- 4.1. Public Income
- 4.2. Public Expenditure

5. Religious Policy of Maratha

- 5.1. Religious Policy of Shivaji
- 5.2. Religious Policy of Sambhaji

Reference Books :

- 1. Chaudhari K.N. - An Economic History from Rise of Islam to 1750
- 2. Chitnis K.N. - Socio-Economic aspects of Medieval India
- 3. Chopra P.N. - A Socio-Economic and cultural History of Medieval India
- 4. Habibullah - Foundation of Muslim rule in India
- 5. Hussaini S.A.O. - Administration under the Mughals
- 6. Moreland W.H. - Agrarian System of Muslim India
- 7. Sarkar Sir J.N. - Mughal Administration
- 8. Singh Meera - Medieval History of India.
- 9. Ghosh A. - Indian Economy
- 10. Singh V.B. - The Economic History of India
- ११. चिटणीसकु.ना. - मध्ययुगीन भारतीय संकल्पना व संस्था

- | | |
|--|--------------------------------|
| १२. पगडी सेतु माधवराव | - सुफी संप्रदाय |
| १३. गैरोला वाचस्पती | - भारतीय संस्कृती औरकला |
| १४. इरफान हबीब | - मध्यकालीन भारत भाग १ ते ५ |
| १५. श्रीवास्तव आशिर्वादीलाल | - मुगले भारत |
| १६. महाजन विद्याधर | - मध्ययुगीन भारत |
| १७. नि.सी. विश्वित | -भारतचाइतिहास (वगळण्यात आले) |
| १८. डॉ.दांडगे मनोरमा | - भारताचाइतिहास (१५२६ ते १९४७) |
| १९. आचार्य धनंजय | -भारताचाइतिहास (१५२६ ते १९४७) |
| २०. वैद्यडॉ. रविंद्र व गद्रेडॉ.प्रभाकर | - मोगल सम्राट औरंगजेब |
| २१. भोरजारडॉ.अशोक व गद्रेडॉ.प्रभाकर | - मोगल सम्राट अकबर |

**B.A. Part-II
Semester-IV
(History of India From 1757 A.D. to 1947 A.D.)**

Time : 3 Hours)

Marks : 80
Int.Ass. : 20

Unit-I

1. Advent of European Powers :

- 1.1 Portuguese
- 1.2 French
- 1.3 British

2. Tools of Expansion of British Dominion in India :

- 2.1 Subsidiary Alliance
- 2.2 Doctrine of Lapse

3. Economic Changes

- 3.1 Land Revenue Statements - Permanent Settlement, Ryotwari, Mahalwari
- 3.2 Commercialization of Agriculture and it's Effects
- 3.3 Decline of Indian Industries, Major Modern Industries

Unit-II

1. Revolt of 1857 :

- 1.1 Causes of Revolt, Nature, Results
- 1.2 Queen's Proclamation

2. Socio- Religious Movements:

- 2.1 BrahmoSamaj
- 2.2 AryaSamaj
- 2.3 Ramkrishna Mission
- 2.4 SatyashodhakSamaj

3. Modern Education :

- 3.1 Rise and Growth of Modern Education
- 3.2 Effects of Modern Education

Unit-III

1. Nationalism :

- 1.1 Rise of Nationalism – Causes
- 1.2 Formation of Indian National Congress

2. Indian National Congress (Early Phase) :

- 2.1 Role of Moderates
- 2.2 Rise of Extremists– Causes
- 2.3. Partition of Bengal
- 2.4Swadeshi and Boycott Movement

3. Indian National Congress (Later Phase) :

- 3.1 Emerging communal Trends – Muslim League Formation
- 3.2. Home –Rule Movement

Unit-IV

1. Early Gandhian Programmes :

- 1.1 Satyagraha, Ahimsa, Hartal
- 1.2 Early Struggle – Champaran Satyagraha, Ahmadabad Mill Strike, hed Satyagrahya
- 1.3 Rowlatt Act- Jaliyawala Bagh Massacre

2. Non Co-operation Movement :

- 2.1 Causes, Nature, Effects
- 2.2. Khilapat Movement

3. Civil Disobedience Movement :

- 3.1 Causes, Nature, Effects
- 3.2. Gandhi - Irwin Pact
- 3.3 Round Table Conferences
- 3.4 Poona Pact

4. Quite India Movement :

- 4.1 Causes, Nature, Effects
- 4.2 Second World War and Indian National Movement

Unit-V

1. Constitutional Development :

- 1.1 Act of 1909 & 1919
- 1.2. Act of 1935

2. Revolutionary Movement :

- 2.1 Vasudeo Balwant Phadake, Chafekar brothers, V.D. Sawarkar
- 2.2. Lahor, Kakori and Chittgong Conspiracy

3. Subhash Chandra Bose and Azad Hind Army :

- 3.1 Foundation of Azad- Hind Army
- 3.2. Role of Subhash Chandra Bose in Azad Hind Army

4. India Towards Independence :

- 4.1 Cripps Plan
- 4.2 Cabinet Mission
- 4.3 Mounbattan Plan, Act of Independence

Reference Books :

1. Bipan Chandra - Communalism in Modern India
2. Desai A.R. - Peasant Struggles in India
3. Mujumdar R.C. - History of Freedom Movement in India
4. Sarkar S.C. & Gupta K.K. - Modern Indian History
5. Ranade M.G. - Religious and Social Reforms
6. Shrinivas M.N. - Social Change in Modern India.
7. Heimsath C.M. - Indian Nationalism and Hindu Social Reforms
8. Ghosh A. - Indian Economy
9. Singh V.B. - The Economic History of India
१०. जावडेकर आचार्य - आधुनिक भारत
११. डॉ. वैद्य सुमन, डॉ. कोटेकर शांता - आधुनिक भारताचा इतिहास
१२. कोलारकर ष.गो. - आधुनिक भारताचा इतिहास
१३. ढवळे, बारगळ - अर्वाचीन भारत
१४. गैरोला वाचस्पती - भारतीय संस्कृती और कला
१५. नि.सी. विशीत - भारताचा इतिहास (वगळण्यात आले)
१६. डॉ. दांडगे मनोरमा - भारताचा इतिहास (१५२६ ते १९४७)
१७. आचार्य धनंजय - भारताचा इतिहास (१५२६ ते १९४७)

**Syllabi of B.A. Final
Semester-V & VI
(Implemented from 2019-2020 Session)**

Instructions for Both Semester V & VI of B.A. Final

- (1) Students will have to Solve TWO (2) Long Questions from any Two of Five Units. Each of these Long Question carries SIXTEEN (16) Marks. Internal Choice is available from same unit.
- (2) Students will have to Solve EIGHT (8) Short Questions in all choosing four questions from each of Two units out of Total Five Units. Each of these Short Question Carries FOUR (4) Marks. Internal Choice is available from same unit.
- (3) Students will have to Solve SIXTEEN (16) Multiple Type Questions from all the Five Units. Each of these Short Question Carries ONE (1) Mark. No Internal Choice is available.

Distribution of Internal 20 Marks

- (1) TEN (10) Marks to be awarded by the Teacher concerned on ASSIGNMENT submitted by the Student. ASSIGNMENT is based on the syllabus.
- (2) TEN (10) Marks to be awarded by the Teacher concerned on student's performance in VIVA-VOCE which is based on the syllabus.

**Syllabi of B.A. Final
Semester-V
History of Modern World
(From 1780 to 1920 AD)**

Time : 3 Hours)

Marks : 80
Int.Ass. :20

Objectives –

The students should have an integrated view of the process of change in the Society, Economy and Civilization in the context of Political Developments.

- Notes :** 1) One Question or a set of Questions from each unit will have to be answered.
2) Five Periods per week shall be provided for instructions.
3) Facilities of excursion tours to students are made available once a year, preferably in Diwali Vacation. The Financial Burden shall be borne by the students only.

Unit-I

1. **French Revolution** -Crisis of the ancient regime, Intellectual currents, Participation of Social Classes.
2. Emergence of Napoleon Bonaparte - Expansion, Consolidation and downfall.
3. Congress of Vienna (1815 AD).

Unit-II

1. Making of the Nations - States of Italy and Germany.
2. Foreign Policy of Germany under Bismark.
3. Germany under Kaiser William II.

Unit-III

1. Triple Entente (1907 AD).
2. Russo - Japanese War (1904 - 05 AD)
3. First World War - Causes and Effects.
A) The Fourteen Points of President Wilson.

Unit-IV

1. The Entry of the U.S.A. into First World War.
2. Concept of Communism, Capitalism, Socialism.
3. The Russian Revolution (1917 AD) - Causes and Effects

Unit-V

1. Paris Peace Conference
2. Versailles Treaty - (i) Sent German Treaty Newline Treaty, (ii) Treaty of Versailles & (iii) Sevres Treaty.
3. The League of Nations - Aims, Objectives, Structure, Achievement and Failure.

Books Recommended :-

- | | |
|---|--------------------------|
| 1. Europe since Napoleon | - Thomson David |
| 2. Bismarck | - Robertson G. |
| 3. From Bismarck to the world war | - Brandenburg E. |
| 4. The Struggle for Mastery of Europe 1848-1948 | - Taylor A.J.P. |
| 5. European History since 1870 | - Benns |
| 6. Contemporary Europe | - Hughes H.S. |
| 7. The first world war | - Taylor A.J.P. |
| 8. Europe M. 19 th & 20 th Century (Hindi also) | - Lipsons. E. |
| 9. Europe since 1870 | - Zable S.H. |
| 10. The Rise of Modern Europe | - Langer, William (ed) |
| 11. History of the league of Nations | - Walters F.P. |
| 12. Europe between the World War | - Carr. E.H. |
| 13. Europe since 1919 | - Langsam |
| 14. International Relations (Between the two wars 1920-1939) | - Carr. E.H. |
| 15. Fascism M. Gtaly | - Trannanbaum. E. |
| 16. History of the United States | - Current, W. |
| 17. Origins of the cold war | - Fleruing D.G. |
| 18. Soviet Foreign Policy after Stalin | - Dallm D.J. |
| 19. International Politics | - Schuman |
| 20. International Politics | - Paimer&Parkins. |
| 21. Europe in Nineteenth Century | - E. Lipson |
| २२. आधुनिक युरोप का इतिहास | - गुच जी.पी. |
| २३. आधुनिक युरोप | - साउथगेट जी.पी. |
| २४. आधुनिक काल का इतिहास | - केटलबी. |
| २५. आधुनिक काल का इतिहास | - शर्मा, डॉ. मथुरालाल |
| २६. आधुनिक काल का इतिहास | - विद्यालंकार सत्यकेतु |
| २७. आधुनिक युरोप | - शर्मा बी.एस. |
| २८. आधुनिक जगाचा इतिहास | - ए.एस. अल्सेकर |
| २९. आधुनिक जगाचा इतिहास | - कोलारकर, झ.गो. |
| ३०. अर्वाचिन युरोप | - केशट्टीवार |
| ३१. अमेरिकेचा इतिहास | - वक्काणी, डॉ. नि.आ. |
| ३२. आधुनिक जगाचा इतिहास | - गायकवाड, कदम आणि थोरात |
| ३३. विश्व का इतिहास | - खुराणी डॉ. के.एल. |
| ३४. आधुनिक युरोप | - मेहता, डॉ. बी.एन. |
| ३५. आधुनिक युरोप का इतिहास | - महाजन व्ही.डी. |
| ३६. आधुनिक जग भाग १, २, ३ | - डॉ. सुमन वैद्य |
| ३७. युद्धोत्तर जग | - य.ना. कदम |
| ३८. आधुनिक जग | - पी.जी. जोशी |

**Syllabi of B.A. Final
Semester-VI
History of Modern World
(From 1921 to 1965 AD)**

Time : 3 Hours)

Marks : 80
Int.Ass. : 20

Objectives –

The students should have an integrated view of the process of change in the Society, Economy and Civilization in the contest of Political Developments.

- Notes :** 1) One Question or a set of Questions from each unit will have to be answered.
2) Five Periods per week shall be provided for instructions.
3) Facilities of excursion tours to students are made available once a year, preferably in Diwali Vacation. The Financial Burden shall be borne by the students only.
-

Unit-I

1. Rise of Fascism in Italy –
Musolini and his Internal & Foreign Policies.
2. Rise of Nazism in Germany –
Hitler and his Internal & Foreign Policies
3. Rise of Stalin in Russia – Internal Policies of Stalin.
4. The Great Economic Depression (1929 A.D.) and its impact.

Unit-II

1. Causes and Result of the Second World War.
2. Entry of the U.S.A. into the Second World War.
3. Diplomatic Conferences during the War Period (1935-1945 A.D.)

Unit-III

1. United Nations Organization :- Aims, Structure, Achievement and Failure.
2. The Emergence of the U.S.A. as World Power, Causes and Effects.
3. The Emergence of the U.S.S.R. as World Power, Causes and Effects.

Unit-IV

1. Post War World - The Cold War – Causes and effect, Origins and Meaning
2. Truman Doctrine, The Marshal Plan, Point Four Programme.
3. Military Alliances – The NATO and Warsaw Pact, the SEATO, The CENTO.

Unit-V

1. The Suez Crisis - The Eisenhower Doctrine,
2. European Unity and Disunity, European Common Market – The Common Wealth of Nations –
The Berlin Crisis of 1958, Cuba Crisis.

Books Recommended :-

- | | |
|---|------------------------|
| 1. Europe since Napoleon | - Thomson David |
| 2. Bismark | - Robertson G. |
| 3. From Bismark to the world war | - Brandenhurg E. |
| 4. The Struggle for Mastery of Europe
1848-1948 | - Taylor A.J.P. |
| 5. European History since 1870 | - Bennis |
| 6. Contemporary Europe | - Hughes H.S. |
| 7. The first world war | - Taylor A.J.P. |
| 8. Europe M. 19 th & 20 th Century (Hmdi also | - Lipsons. E. |
| 9. Europe since 1870 | - Zable S.H. |
| 10. The Rise of Modern Europe | - Langer, William (ed) |
| 11. History of the league of Nations | - Walters F.P. |
| 12. Europe between th World War | - Carr. E.H. |
| 13. Europe since 1919 | - Langsam |
| 14. International Relations (Between the
two wars 1920-1939 | - Carr. E.H. |

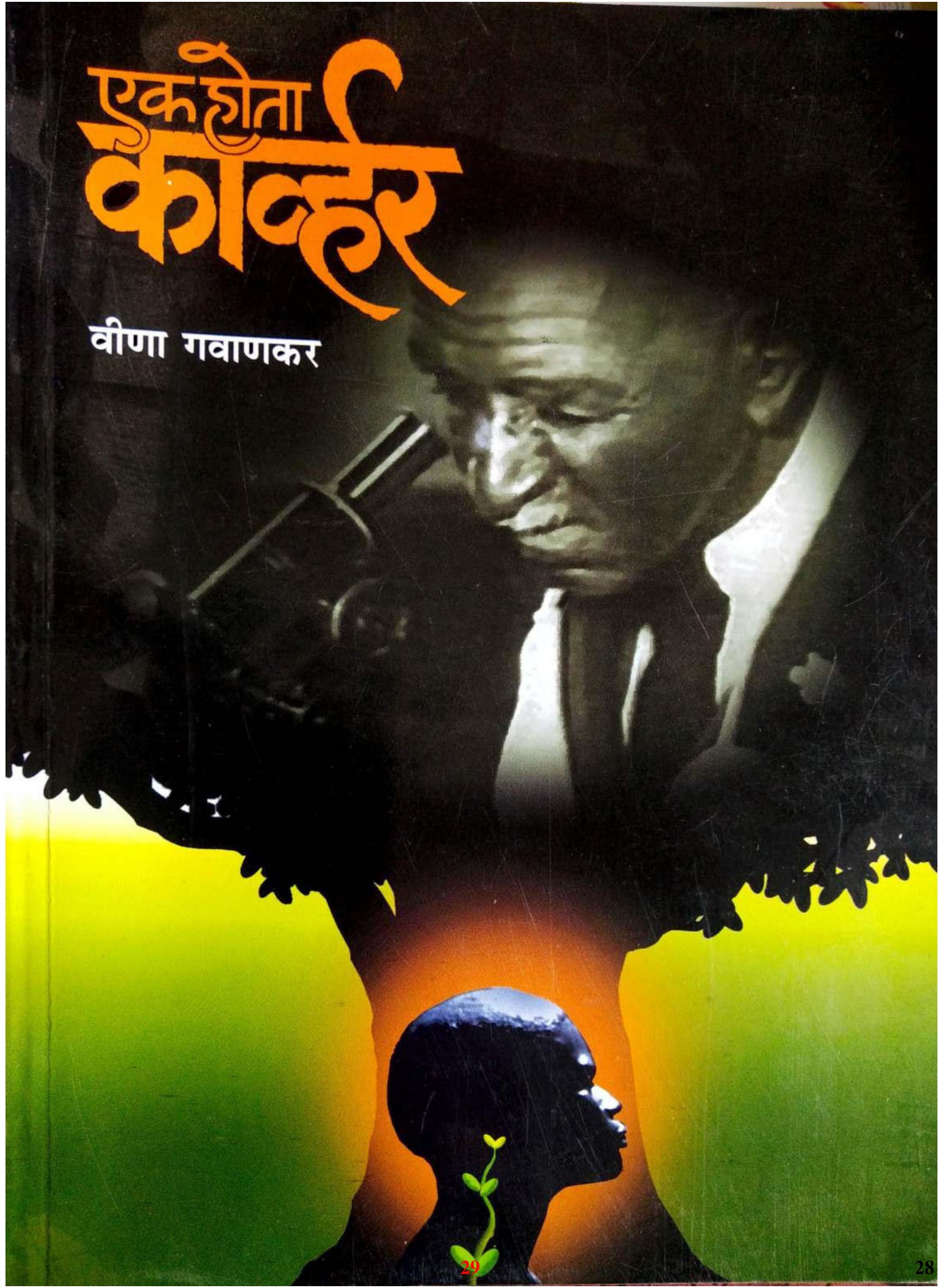
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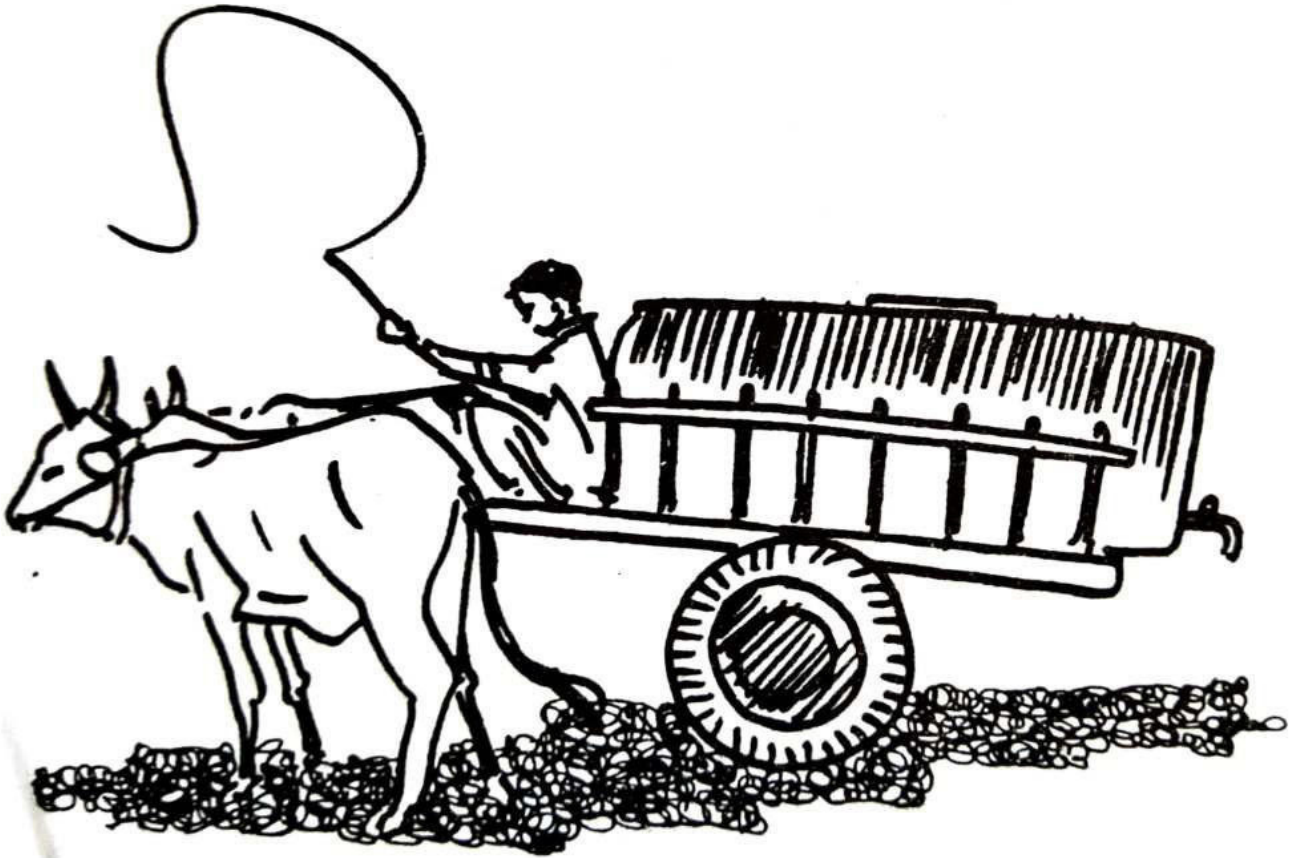
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कादंबरी



सदानंद देशमुख



INDIAN ECONOMY

भारतीय

अर्थव्यवस्था १

१९८० पासून



#startupindia



मपवेरैव



प्रा. (डॉ.) एन. एल. चव्हाण

SAI JYOTI

व्यावसायिक पर्यावरण

बी.कॉम. सत्र पाचवे

डॉ. सुनील नामदेवराव ढेरे
प्रा. अमोल सतीश राऊत



SAI JYOTI
PUBLICATION
The way of Light

लोकसंख्याशास्त्र

... — ...

DEMOGRAPHY



डॉ. महादेव रिठे
डॉ. संतोष कुटे

Activities conducted for Professional Ethics

One Day Workshop on IPR: IQAC organized one day national workshop on IPR on 30/11/2021 to imbibe professional ethics in students as well as teachers. Resource person explained about patent, plagiarism and copyrights in research and writings.



Shri Shivaji Education Society, Amravati's

**Shri Pundlik Maharaj
Mahavidyalaya, Nandura (Rly)
Dist. Buldana**

**ONE DAY NATIONAL WORKSHOP
On
IPR (INTELLECTUAL PROPERTY
RIGHTS)**

**Organized
by
IQAC**

30th NOVEMBER 2021
Time - 12:00 P.M. - 01:30 P.M.

RESOURCE PERSON



Dr. Rajesh N. Gacche
Professor
Dept. of Biotechnology
Savitribai Phule Pune University, Pune

About Society:
The Shri Shivaji Education Society, Amravati a venture established with the aim of providing a high-quality education to the downtrodden and last person of society through catering unbiased and conducive learning environment. It is a premier educational institution of Central India with branches in all the districts of Vidarbha in Maharashtra. Its founder President was the late Dr. Panjabrao alias Bhausaheb Deshmukh, one of the greatest educationists, agriculturist and reformist who established this society in 1931 with a single school which has expanded today into various schools, colleges, hostels and other teaching and technical institutions.

The society has not kept its services limited to traditional education only, it offers education in the fields like Agriculture, Commerce, Arts, Education, Engineering, Fine Arts, Law, Management, Physical Education, Science & Information Technology. Along with the education, the society serves in the field of health sector by establishing medical and nursing colleges as well as hospital and medical research centre. Numerous workshops, extension services, printing press, Gymnasias, Health clubs and a host of other facilities totalling about 132 in the services of the community too are sectors of services provided by the society.

Our Society's services are duly recognised and rewarded by the Govt. of Maharashtra from time to time for its distinguished work and devotion. The Govt. of Maharashtra awarded the "Dr. Babasaheb Ambedkar Dalit Mitra Award" in the year 1993-94. The Society was awarded by the Gadge Maharaj Memorial Award in the year 1999-2000. The Govt. of Maharashtra declared Shri. Shivaji Education Society as the best administered Society in the State on 5th Sept 2000.

About College:
With the motto of serving deprived section of community, Shri Shivaji Education Society, Amravati was established. The very same objectives were put forth while establishing Shri Pundlik Maharaj Mahavidyalaya, Nandura. The institute was established in 1983, with very meagre facilities and manpower. The Institute has a clear vision and mission for achieving excellence in the field of education. The dedication of our society has fruition today into a centre of knowledge with education in all the three faculties viz, Arts, Commerce and Science. Recently the institute has started three vocational courses in Agriculture, Food processing and Automobile, approved by UGC.

The institute is spanned over a land of more than 2 acres with required infrastructure including classrooms, laboratories, library and playground. The institute is NAAC reaccredited and also has 2 (f) & 12 (B) status of UGC, New Delhi.

Chief Patron



Shri. Harshvardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati



Shri. Nareshchandra P. Thakre
Vice-President
Shri Shivaji Education Society, Amravati

- President**
Dr. Alka A. Mankar
Principal
- Convener**
Dr. Smita Tarale
IQAC Co-ordinator and Head, Dept. of Chemistry
- Co-convener**
Dr. Ravikumar B. Shinde
IQAC Co-coordinator, Dept. of Zoology
- Co-ordinator**
Mr. Shantaram Bhoje
Assistant Professor, Dept. of Zoology
Contact No: 9637210628
- Ms. Supriya Gedam**
Assistant Professor, Dept. of Botany
Contact No: 8806048773

Registration Link



- No Registration Fee
- Workshop will be conducted on Zoom Platform

Criterion 1 – Curricular Aspects (QIM 1.3.1)

Screenshots of IPR

(e) a substance obtained by a mere admixture resulting only in the aggregation of the properties of the components thereof or a process for producing such substance;

(f) the mere arrangement or re-arrangement or duplication of known devices each functioning independently of one another in a known way;

(h) a method of agriculture or horticulture;

(i) any process for the medicinal, surgical, curative, prophylactic ²³ [diagnostic, therapeutic] or other treatment of human beings or any process for a similar treatment of animals ²⁴ [***] to render them free of disease or to increase their economic value or that of their products.

²⁵ [(j) plants and animals in whole or any part thereof other than micro-organisms but including seeds, varieties and species and essentially biological processes for production or propagation of plants and animals;

(k) a mathematical or business method or a computer programme per se or algorithms; (As per Sec. 3 (k) of the Patent Act, 2002, **computer program cannot be patented per se**. However, a software patented if it is attached to an invention and that it is a component of such invention.)

(l) a literary, dramatic, musical or artistic work or any other aesthetic creation whatsoever including cinematographic works and television productions;

(m) a mere scheme or rule or method of performing mental act or method of playing game

(n) a presentation of information

(o) topography of integrated circuits;

(p) an invention which in effect, is traditional knowledge or which is an aggregation or duplication of known properties of traditionally known component or components.]

Unmute My Audio (Alt+A). Or you can simply press and hold the space bar to temporarily unmute.

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

Criterion 1 – Curricular Aspects (QIM 1.3.1)



Shri Shivaji Education Society, Amravati's
Shri Pundlik Maharaj
Mahavidyalaya, Nandura (Rly)
Dist. Buldana

ONE DAY NATIONAL WORKSHOP
On
RESEARCH METHODOLOGY
(Understanding the Research Process)

Organized by
Research Promotion Cell (RPC)
and
Dept. of Library
Friday, 24th December 2021
Time - 12:00 P.M.

RESOURCE PERSON



Dr. Sankunni Mohan Karuppayil
Prof and Head,
Dept of SCRM and Medical
Biotechnology,
DY Patil University, Kolhapur

About College:
With the motto of serving deprived section of community, Shri Shivaji Education Society, Amravati was established. The very same objectives were put forth while establishing Shri Pundlik Maharaj Mahavidyalaya, Nandura. The institute was established in 1983, with very meagre facilities and manpower. The Institute has a clear vision and mission for achieving excellence in the field of education. The dedication of our society has fruition today into a centre of knowledge with education in all the three faculties viz, Arts, Commerce and Science. Recently the institute has started three vocational courses in Agriculture, Food processing and Automobile, approved by UGC.
The institute is spanned over a land of more than 2 acres with required infrastructure including classrooms, laboratories, library and playground. The institute is NAAC reaccredited and also has 2 (f) & 12 (B) status of UGC, New Delhi.






Chief Patron



Shri. Harshvardhan P. Deshmukh
President
Shri Shivaji Education Society, Amravati



Shri. Nareshchandra P. Thakre
Vice-President
Shri Shivaji Education Society, Amravati

- President**
Dr. Alka A. Mankar
Principal
- Convenor**
Dr. Pratibha Atram
Librarian

Organizing Secretary

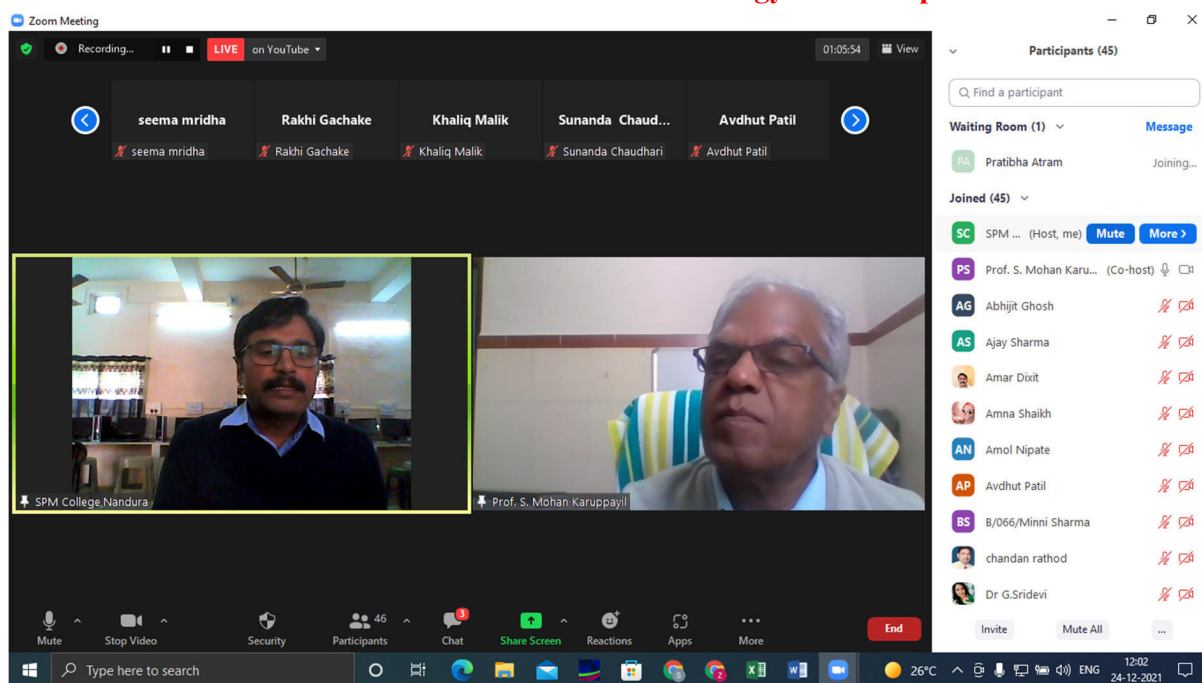
- Ms. Sunanda Dekate**
Assistant Professor, Dept. of Botany
Contact No: 9673629666
- Mr. Sachin Jadhav**
Assistant Professor, Dept. of Zoology
Contact No: 9172249095

Registration Link **Zoom Link**

 **Click Here**  **Click Here**

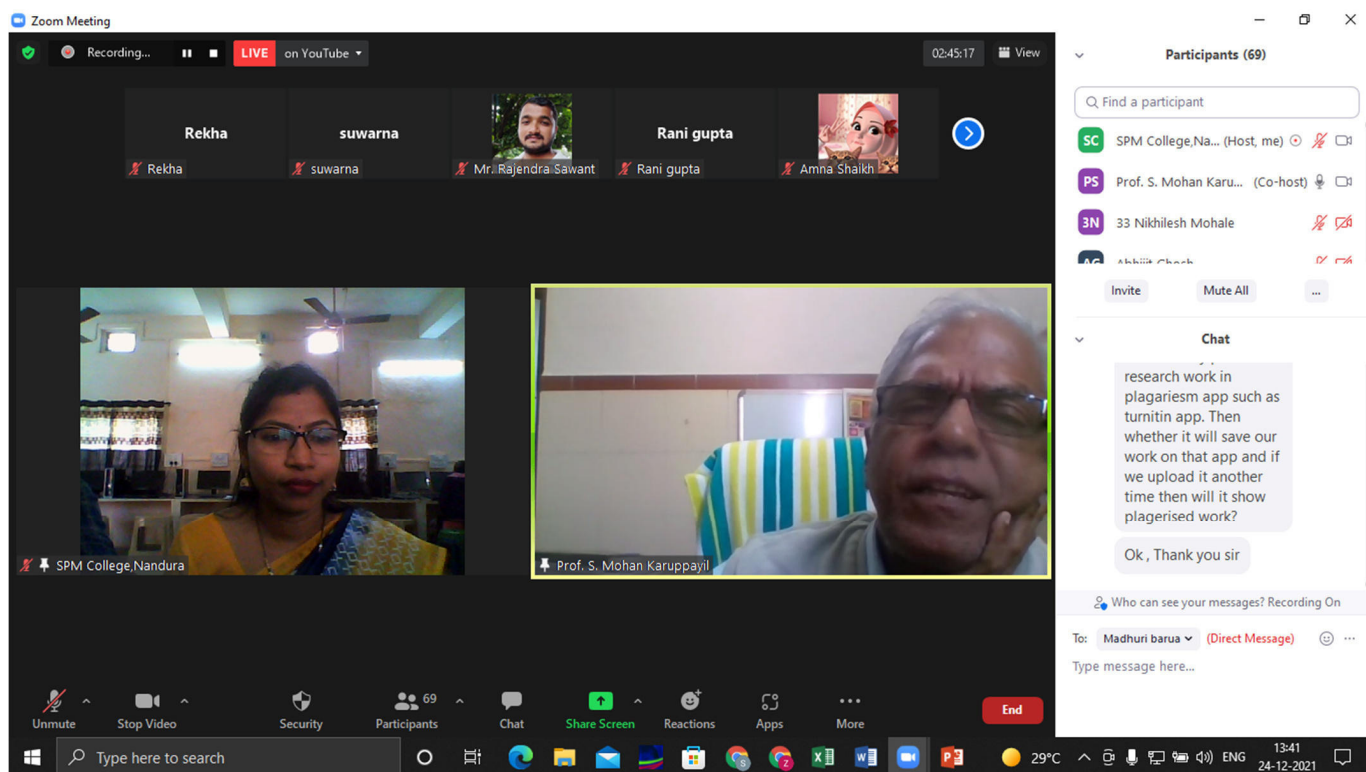
- No Registration Fee
- Workshop will be conducted on Zoom Platform

Screenshots on Research Methodology Workshop



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

Criterion 1 – Curricular Aspects (QIM 1.3.1)



One Day Workshop on IPR: Department of Chemistry organized One Day Workshop on IPR on 29/01/2020. Resource person explained how to file patent and how to follow ethical policies. He focused on exploitation of inventions, trademarks, designs, creative content or other intangible assets.

One Day Workshop on IPR



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

Criterion 1 – Curricular Aspects (QIM 1.3.1)

Activities Conducted for Gender Issues

One Day Health Check Up Camp: To address the gender issues, and for women health and counseling internal complaint committee organized one day health check up camp on 12/4/2022 in collaboration with Indian Medical Association branch Nandura.

One Day Health Checkup Camp



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

News on Health Checkup Camp

बुलडाणा, गुरुवार,
१४ एप्रिल २०२२

पुंडलिक महाराज महाविद्यालयात विद्यार्थिनींची वैद्यकीय तपासणी

मातृभूमि वृत्तसेवा

। नांदुरा, दि. १३।

इंडियन मेडिकल असोसिएशन व लायन्स क्लब ज्ञानगंगा द्वारा श्री पुंडलिक महाराज महाविद्यालय येथे १२ एप्रिल रोजी महाविद्यालयीन विद्यार्थिनींची वैद्यकीय तपासणी करण्यात आली. यामध्ये सुमारे ७५ मुलींची हिमोग्लोबिन तपासणी सुद्धा करण्यात आली. ज्या मुलींचे हिमोग्लोबिन १० ग्रॅम पेक्षा कमी आहे. त्यांचे रक्ताचे प्रमाण वाढविण्यासाठी पिक मिशनच्या माध्यमातून प्रयत्न केले जातील असे डॉक्टरांनी सांगितले. या कार्यक्रमाचे प्रास्तविक डॉ.स्मिता तराळे मॅडम यांनी केले. यावेळी सर्वप्रथम इंडियन मेडिकल असोसिएशनचे अध्यक्ष डॉ.राजेंद्र गोठी व सचिव डॉ.संदीप डवंगे यांनी उपस्थित विद्यार्थिनींना मार्गदर्शन केले. डॉ. सुरेखा डवंगे व डॉ. सरला गोठी



यांनी मुलींच्या समस्येविषयी सखोल माहिती दिली. प्राचार्य डॉ. अलका मानकर यांच्या प्रमुख उपस्थितीमध्ये डॉ. सुरेखा डवंगे, डॉ. सरला गोठी, डॉ. माधुरी बोरसे, डॉ. जया हरगुनाणी, डॉ. संजीवनी नांदुरकर यांनी सर्व विद्यार्थिनींची वैद्यकीय तपासणी करून सल्ला दिला. नांदुरा शहर व परिसरातील स्त्रियांसाठी सुद्धा पिक मिशन च्या माध्यमातून वेगवेगळी शिबिरे आयोजित

करून हिमोग्लोबिन चे प्रमाण १० ग्रॅम पर्यंत राहण्यासाठी प्रयत्न करण्याचा मानस यावेळी सर्व सेवा देणाऱ्या डॉक्टर मंडळींनी व्यक्त केला. सदर कार्यक्रमाच्या यशस्वीतेसाठी डॉ. सुप्रिया गेडाम, डॉ.प्रतिभा आत्राम, डॉ.सचिन जाधव, डॉ. सुनंदा काटे, डॉ.सुचिता डिघे यांनी परिश्रम घेतले. संचालन व आभार कु. निकिता गावंडे हिने केले.

Health Checkup Camp During One Week NSS Camp



Azimuth: 110° (E)
Pitch: -8.7° (-2.2°)
Time: 03-13-2022 10:21
Note: NSS Camp by S.P.M. College, Nandura

Powered by AngleCam

Criterion 1 – Curricular Aspects (QIM 1.3.1)

International Women's Day: Every year institute organizes women's day. The celebration of the day is with objectives of sensitizing students to gender equality and empowerment of girls. Also to spread the messages like 'Beti Bachao Beti padhao' which is the need of hour. Various activities like food festival, different competitions, rallies, self defense trainings etc are organized on this occasion.

Self Defense Training



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

Criterion 1 – Curricular Aspects (QIM 1.3.1)



International Women's Day



Latitude: 20.824351
Longitude: 76.451518
Elevation: 326.5±48 m
Accuracy: 3.9 m
Azimuth: 285° (W)
Pitch: -9.2° (-0.6°)
Time: 03-08-2022 15:37
Note:
mahila din 8 March 2022

Powered by AngleCam

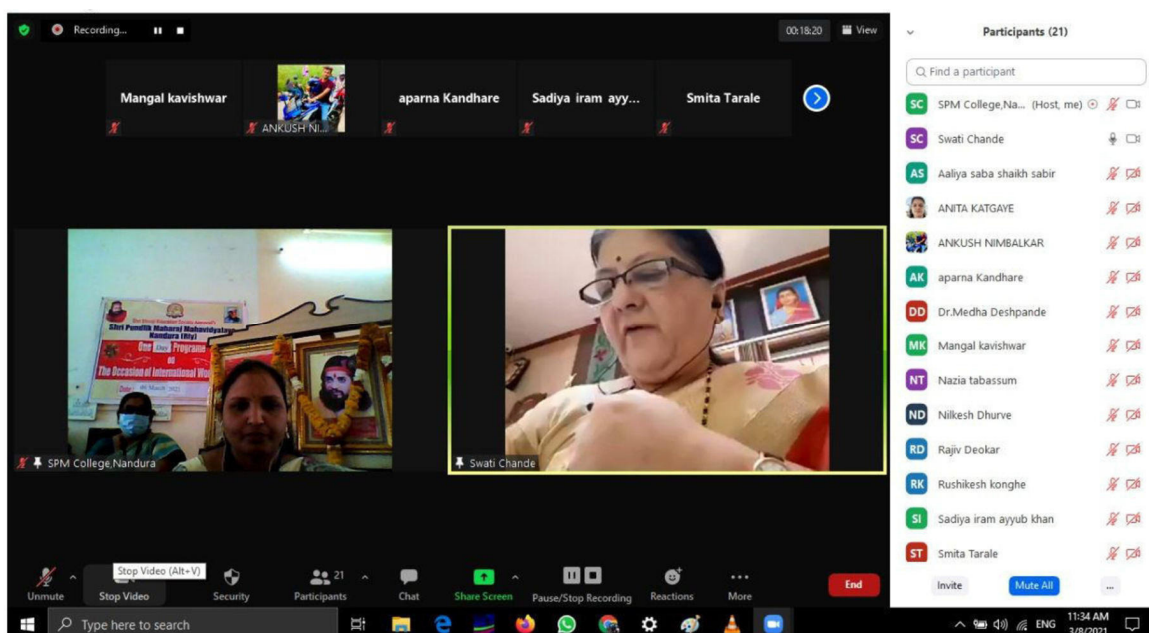
1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Criterion 1 – Curricular Aspects (QIM 1.3.1)

Food Festival During International Women's Day



International Women's Day (Inspiring Change Through Women Empowerment)



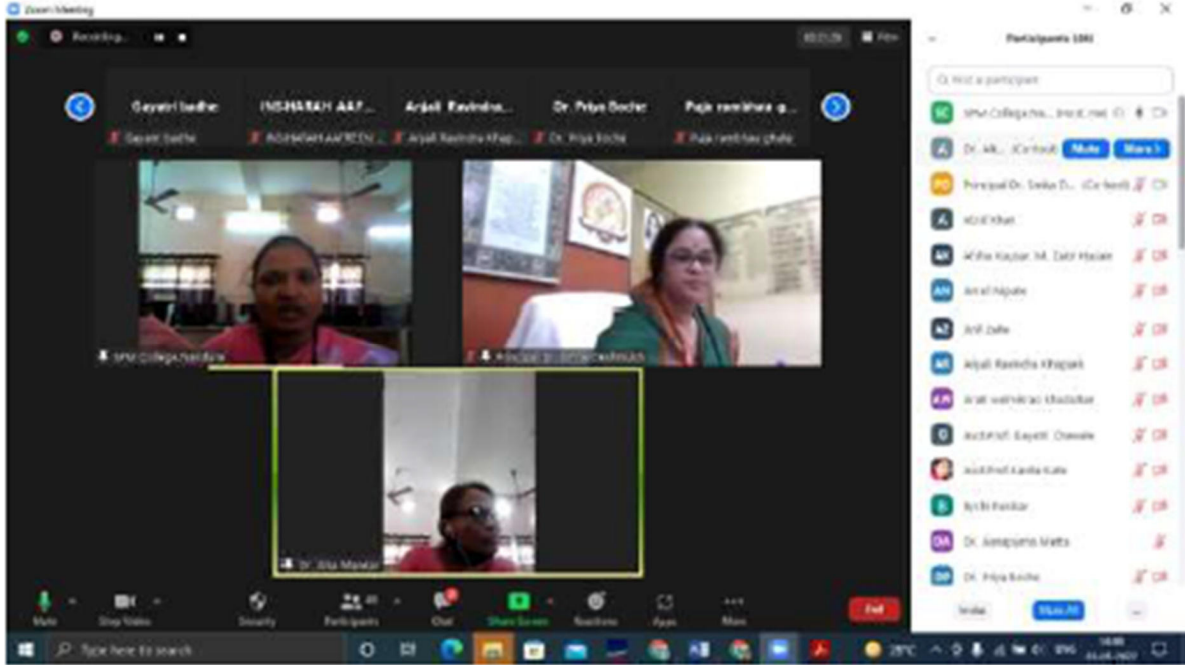
1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Fancy Dress Competition on Women's Day



One Day Workshop on Women Empowerment





News Cutting on Women Empowerment workshop

श्री पुंडलिक महाराज महाविद्यालयात क्रांतिज्योती सावित्रीबाई फुले यांच्या जयंतीदिनी कार्यशाळेचे आयोजन

नांदुरा (दिशप्रेरणा वृत्त) - स्थानिक श्री पुंडलिक महाराज महाविद्यालय येथील महिला तक्रार निवारण समिती(आयसीसी) आणि अर्थशास्त्र विभागातर्फे क्रांतिज्योती सावित्रीबाई फुले जयंती निमित्त महिला सक्षमीकरण विषयावर ऑनलाईन पद्धतीने एक दिवसीय राष्ट्रीय कार्यशाळेचे आयोजन करण्यात आले. या कार्यक्रमास डॉ.स्मिता देशमुख प्राचार्या, मातोश्री विमलाबाई देशमुख महाविद्यालय, अमरावती प्रमुख मार्गदर्शक म्हणून लाभल्या. यावेळी बोलताना डॉ. स्मिता देशमुख म्हणाल्या की शिक्षण हीच सामाजिक क्रांतीचा पाया आहे, म्हणून फुले दांपत्यांनी जो पाया रचला तो

सामाजिक आणि शैक्षणिक परिवर्तनाचा वसा आपण जपलो, तरच सूर्या अर्थीने जयंती साजरी करण्याला अर्थ आहे. त्या म्हणाल्या की महिलांना अनेक अडचणींना सामोरे जावे लागते, परंतु नेहमी सकारात्मक विचार ठेऊन, न डगमगता त्यातून मार्ग काढावयास पाहिजे. चूल आणि मूल यातच

मर्यादित न राहता आपले श्रेष्ठ वाढवायला पाहिजे तरच त्या स्वतःची आणि समाजाची प्रगती करू शकतात. असे सांगून त्यांनी सर्वाना नवीन वर्षाच्या आणि सावित्रीबाई फुले जयंती च्या शुभेच्छा दिल्या. कार्यक्रमाच्या अध्यक्ष म्हणून महाविद्यालयाच्या प्राचार्या डॉ.अलका मानकर लाभल्या व महिला सक्षमीकरणावर विचार बक्त केले. प्रा. सुप्रिया गेडाम यांनी सूत्रसंचालन केले. कार्यशाळेला मोठ्या संख्येने प्राध्यापक आणि विद्यार्थी सहभागी झाले होते. प्रा. सचिन जाधव यांनी कार्यशाळा व्यवस्थितीत पार पाडावी म्हणून प्रयत्न केले तर प्रा. प्रतिभा आत्राम यांनी आभार प्रदर्शन केले.

Activities Conducted for Environment and Sustainability

World Environment Day: To spread awareness about environment protection Department of Botany celebrated world environment day by organizing workshop on seed ball preparation. This technique helps in developing greenery in barren lands. The workshop was organized with the motive of inducing students for conservation of forests and protection of environment.

Workshop on Seed ball preparation



श्री पुंडलिक महाराज महाविद्यालयात विद्यार्थ्यांना बीज गोळे तयार करण्याचे प्रशिक्षण

बुलडाणा (प्रतिनिधी)
श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित श्री पुंडलिक महाराज महाविद्यालय नांदुरा येथे जागतिक पर्यावरण दिनाचे औचित्य साधून महाविद्यालयाच्या प्राचार्य डॉ. अलका मानकर व वनस्पतीशास्त्र विभागाच्या वतीने विद्यार्थ्यांना बीज गोळे तयार करण्याचे प्रशिक्षण देण्यात आले. बीज गोळे तयार करून ते रस्त्याच्या शेताच्या कडेला, अभयारण्यात फेकून त्यापासून नवीन रोपे तयार होतील असा पर्यावरण पूरक उपक्रम राबविण्यात आला.

कडुनिंब, साग, वेल, करंजी, मुंगणा, चिंच, सीताफळ यासारख्या विविध प्रकारच्या झाडांच्या बियांचा बीज गोळे तयार करण्यासाठी वापर करण्यात आला. यावेळी वनस्पतीशास्त्र विभागप्रमुख डॉ. सुचिता दिचे, डॉ. अनिता काटगाये, प्रा. सुप्रिया गेडाम, प्रा. सुनंदा डेकाटे यांचे मार्गदर्शन लाभले. अशाप्रकारे पर्यावरण संवर्धनाचा संदेश श्री पुंडलिक महाराज महाविद्यालय नांदुरा येथील विद्यार्थ्यांनी दिला आहे.

One day workshop on Plant Grafting: The workshop on Plant grafting was organized by Department of Botany. There were two main objectives of the workshop; the technique helps in conservation of plant species mainly which are endangered or on the verge of extinction and this could be a tool for developing ornamental plants for landscaping.

Workshop on Plant Grafting



World Wetland Day:

Department of Botany celebrates World Wetland Day. Several thought provoking activities for students are organized on this occasion. A drawing competition with the theme of environment sustainability was organized for students. Importance of different ecosystems was highlighted through this competition.

Ecofriendly Holi Celebration





To raise awareness and protect the house sparrows, every year on March 20 World Sparrow Day is observed. The first World Sparrow Day was organised in 2010.

The house sparrow is one of the first birds that most of us recall from our childhood days. They used to reside in colonies in nearly every house in the neighbourhood, as well as public locations like bus bays and railway stations, surviving on food grains and tiny worms. For many of us, the house sparrow evokes many wonderful memories. Unfortunately, these birds are fast becoming extinct, and their populations are rapidly declining.






Shri Shivaji Education Society, Amravati's
**Shri Pundlik Maharaj Mahavidyalaya,
Nandura (Rly) Dist. Buldana**

Dept. of Zoology
Organizes
Zoo Carnival

20 March - 27 March 2022









**On the occasion of
World Sparrow day**

World Sparrow Day: To raise awareness and protect the house sparrows, every year on March 20 World Sparrow Day is observed.

This WorldSparrowDay, let us celebrate the ecological significance of sparrows and pledge to protect and conserve the bird which is now on the verge of extinction.




Organizing Committee

- Asst.Prof. Sachin Jadhav
- Asst.Prof. Shantaram Bhoje
- Asst.Prof. Dr. Ravikumar Shinde

Head
Asst. Prof. Tejaswini Marakwad

Principal
Dr. Alka. A. Mankar

Model Competition





Shri Shivaji Education Society, Amravati's

**SHRI PUNDLIK MAHARAJ
MAHAVIDYALAYA, NANDURA(RLY).
DIST. BULDANA**

WORLD WILDLIFE WEEK 2021



Organized By
**DEPARTMENT OF
ZOOLOGY**



Wildlife Week is annually celebrated across India between 2nd to 8th October with an aim to protect and preserve the flora and fauna of India.

Wildlife plays a significant role in maintaining the ecological equilibrium of nature.

Make yourself and others aware about the conservation and protection of the wildlife.

Organizing Committee

- Asst.Prof. Sachin Jadhav
- Asst.Prof. Shantaram Bhoje
- Asst.Prof. Dr. Ravikumar Shinde

Head
Asst. Prof. Tejaswini Marakwad

Principal
Dr. G. V. Korpe

Guidelines

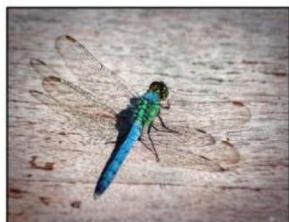
- The registration is compulsory for all the participants
- Each participant can participate in one or all the competition given below
- Competition is open for UG and PG Students only
- E-certificate will be given to all the participants
- Participants have to complete the registration to participate in the following competition by clicking on the following links

For Contact:

spmzoology@gmail.com

 9172249095
9637210628

Wildlife Photography Competition



Green initiative by Tree plantation: Department of Zoology organized a tree plantation and conservation activity. Students were motivated to participate in tree plantation and conservation activity. They enthusiastically volunteered in the activity.

Criterion 1 – Curricular Aspects (QIM 1.3.1)



Celebration of Constitution Day



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

Criterion 1 – Curricular Aspects (QIM 1.3.1)

One Week NSS Camp



Cleanliness Drive



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

Tree Plantation



Motivational Program for Youth



News Gallery of Environment Sustainability and Human Values

News Cutting of NSS Foundation Day

एसपीएम कॉलेजमध्ये राष्ट्रीय सेवा योजना दिन साजरा

नांदुरा (प्रतिनिधी) : स्थानिक एस पी एम कॉलेज मध्ये दि.२४ सप्टेंबर रोजी राष्ट्रीय सेवा योजना स्थापना दिवस साजरा करण्यात आला. या स्थापना दिनानिमित्त महाविद्यालयात राष्ट्रीय सेवा योजनेचे कार्य आणि महत्व या विषयावर मार्गदर्शन कार्यशाळा महाविद्यालयाचे प्राचार्य डॉ. दिलीप हांडे यांच्या अध्यक्षतेखाली संपन्न झाली. यावेळी समाजसेवक, सालईबनचे संस्थापक मनजीतसिंग हे प्रमुख मार्गदर्शक म्हणून उपस्थित होते. त्यांनी राष्ट्र निर्मितीसाठी राष्ट्रीय सेवा योजनेच्या स्वयंसेवकांची भूमिका महत्वाची असल्याचे सांगितले. कार्यक्रमाचे प्रास्ताविक प्रा. शांताराम भोये व संचलन प्रा. सुनंदा डेकारे तर आभार प्रदर्शन प्रा. अमोल निपटे यांनी केले. कार्यक्रमाला महाविद्यालयातील राज्यशास



विभागप्रमुख प्रा. डॉ. गजानन विरकर, प्रा. डि. एम. गायकवाड, प्रा. डॉ. महेश विद्यार्थी व रा. से. यो. चे सर्व स्वयंसेवक मराठी विभागप्रमुख प्रा. डॉ. सुनंदा रेवसे, मुळक, प्रा. डॉ. सचिन मुखमाले तसेच मोठ्या संख्येने उपस्थित होते.

योगदान शिवाजीराज महाराज महाविद्यालयातील गणेश मंडळाने

News Cutting For Environmental Cleanliness

श्री.पुंडलिक महाराज महाविद्यालयातील रासेयोच्या वतीने निर्माल्य संकलन



मातृभूमि वृत्तसेवा

। नांदुरा, दि. १०।

श्री शिवाजी शिक्षण संस्था, अमरावती द्वारा संचालित श्री पुंडलिक महाराज महाविद्यालय, नांदुरा रेल्वे येथे राष्ट्रीय सेवा योजना विभागाच्या वतीने गणेशोत्सवानिमित्त “निर्माल्य संकलन” उपक्रम राबविण्यात आला. नांदुरा शहरातील सर्व गणपती मंडळांना निर्माल्य एकत्रित गोळा करण्यास सांगून नांदुरा नगरपरिषदेच्या सहकार्याने

स्वयंसेवकांनी प्रत्येक गणेश मंडळाने एकत्रित गोळा केलेले निर्माल्य संकलित केले. गणेशोत्सव काळात होणारे जलप्रदूषण टाळून जलसंवर्धन करण्यात येणार आहे. निर्माल्य संकलनासाठी नांदुरा नगरपरिषदेच्या अधिकाऱ्यांचे सहकार्य लाभले. महाविद्यालयाचे सन्माननीय प्राचार्य डॉ. दिलीपजी हांडे यांच्या मार्गदर्शनाखाली रा. से. यो. कार्यक्रम अधिकारी प्रा. शांताराम भोये व रासेयो. महिला कार्यक्रम अधिकारी प्रा. सुनंदा डेकारे यांनी स्वयंसेवकांच्या मदतीने निर्माल्य संकलन केले.

News Cutting on Constitution Day

मातृपूजा चरणा आभार कळत. त्या सव महान वसाकार उपास्यता हवा.

श्री पुंडलिक महाराज महाविद्यालयात संविधान दिन साजरा

नांदुरा देशप्रेरणा वृत्त - श्री शिवाजी शिक्षण संस्था, अमरावती द्वारे संचालित श्री पुंडलिक महाराज महाविद्यालय, नांदुरा येथे शनिवार दि. 27 नोव्हेंबर 2021 रोजी राज्यशास्त्र विभाग व राष्ट्रीय सेवा योजना यांच्या संयुक्त

कार्यक्रमात शकुंतलाबाई धाबेकर महाविद्यालयाचे प्राचार्य डॉ. सुभाष गवई हे प्रमुख पाहुणे म्हणून ठाबले होते.

तसेच महाविद्यालयाच्या गुणवत्ता शास्त्रातील कक्ष समन्वयक प्रा. डॉ. स्मिता तराळे

करण्यात आले. या वेळी कार्यक्रमाचे प्रमुख पाहुणे प्राचार्य डॉ. सुभाष गवई यांनी संविधानाची गरज, कायदा व सुव्यवस्था राखण्यासाठी संविधानाचे महत्त्व याविषयी माहिती दिली. अध्यक्षीय भाषणात महाविद्यालयाच्या प्राचार्या डॉ. अतका मानकर यांनी दैनंदिन जीवनात, तसेच देशाची जडणघडण व विकासामध्ये संविधानाचे कार्य, महत्त्व स्पष्ट केले. कार्यक्रमाच्या शेवटी भारतीय राज्यघटनेच्या संराम्याचे सामुहिक वाचन करण्यात आले. या कार्यक्रमासाठी मोठ्या संख्येने विद्यार्थी हजर होते. प्रास्ताविक राज्यशास्त्र विभाग प्रमुख डॉ. विरकर सर यांनी केले, तर आभार प्रदर्शन राष्ट्रीय सेवा योजना समन्वयक प्रा. डॉ. सचिन मुखमाते यांनी केले. कार्यक्रमाच्या यशस्वीतेसाठी महाविद्यालयातील राष्ट्रीय सेवा योजना पथक, तसेच सर्व प्राध्यापक शिक्षक व शिक्षकेतर कर्मचारी आणि रा. से. यो. चे स्वयंसेवक यांनी सहकार्य केले.



विद्येमाने 'संविधान दिवस' उत्साहात साजरा करण्यात आला. या निमित्त एक विशेष कार्यक्रमाचे आयोजन करण्यात आले होते. या कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्या डॉ. अतका मानकर होत्या. या

उपस्थित होत्या. कार्यक्रमाची सुरुवात श्री. पुंडलिक महाराज, डॉ. बाबासाहेब आंबेडकर आणि डॉ. भाऊसाहेब देशमुख यांच्या प्रतिमेचे पूजन करून करण्यात आली. कार्यक्रमाच्या सुरुवातीला स्वागत गीत तसेच राष्ट्रगान सादर

News Cutting on Essay Competition on Swach Sarvekshan

लोकमत समाचार

स्वच्छ सर्वेक्षण पर निबंध प्रतियोगिता

बुलढाणा : केंद्र शासन पुरस्कृत स्वच्छ सर्वेक्षण 2023 और महाराष्ट्र शासन पर्यावरण एवं जलवायू परिवर्तन विभाग की मार्गदर्शन सूचना के अनुसार नांदुरा नगर परिषद द्वारा शहर सभी शाला एवं विद्यालयों में छमेरी वसुंधरा अभियानह अंतर्गत स्वच्छ सर्वेक्षण 2023 के तहत निबंध प्रतियोगिता का का आयोजन किया गया था. इस निबंध प्रतियोगिता में शहर की शाला एवं विद्यालयों के सैकड़ों छात्रों ने भाग लिया.

बता दें कि, स्वच्छता जनजागृति हेतु केंद्र शासन पुरस्कृत स्वच्छ सर्वेक्षण 2023 और महाराष्ट्र शासन पर्यावरण एवं जलवायू परिवर्तन विभाग की मार्गदर्शक सूचना के अनुसार नांदुरा

नगर परिषद के मुख्याधिकारी अशिश बोबडे के मार्गदर्शन में निबंध प्रतियोगिता का आयोजन किया गया था. इस निबंध प्रतियोगिता में संत पुंडलिक महाराज महाविद्यालय, कोठारी प्राथमिक, कोठारी हाईस्कूल व माध्यमिक कन्या विद्यालय, संत जंगली महाराज इंजलिश स्कूल, भारतीय ज्ञानपीठ हाईस्कूल व नगर परिषद प्राथमिक, मराठी कन्या उर्दू आदि शालाओं के 358 छात्र छात्रों ने भाग लिया. निबंध प्रतियोगिता में नगर परिषद नांदुरा मुख्याधिकारी आशीष बोबडे, उप अभियंता नीरज नाफडे, स्वास्थ्य निरीक्षक महादेव हिंगणकर, नगर समन्वयक रवि सूर्यवंशी, नीलेश सोनोने नीति खंडारे और सभी प्रतिभागी स्कूलों के शिक्षक उपस्थित थे.

इन विषयों पर हुई निबंध प्रतियोगिता

स्वच्छ सर्वेक्षण 2023 अंतर्गत नांदुरा नगर परिषद द्वारा शहर की सभी शाला एवं विद्यालयों में निबंध प्रतियोगिता का आयोजन किया गया था. छात्रों को निबंध लिखने हेतु निम्न लिखित विषय दिए गए थे. इनमें पर्यावरण और मानव जीवन, पर्यावरण शिक्षा और जल सुरक्षा, वृक्षारोपण समय की जरूरत, पर्यावरण सुरक्षा और प्रकृति का संतुलन, हमारा पर्यावरण और वर्तमान स्थिति, कचरे से होने वाले दुष्परिणाम आदि विषयों पर निबंध प्रतियोगिता का आयोजन किया गया था.

News cutting on HIV/AIDS Day

श्री पुंडलिक महाराज महाविद्यालयात जागतिक एचआयव्ही एड्स दिन साजरा

मातृभूमि वृत्तसेवा

। नांदुरा, दि. २ ।

श्री शिवाजी शिक्षण संस्था, अमरावती द्वारा संचालित, श्री पुंडलिक महाराज महाविद्यालय, नांदुरा रेल्वे, जिल्हा-बुलडाणा येथे राष्ट्रीय सेवा योजना व रेड रिबन क्लब, नांदुरा यांच्या संयुक्त विद्यमाने "जागतिक एड्स दिना" चे औचित्य साधून एच. आय. व्ही. (एड्स) व टीबी या आजारबादल विद्यार्थ्यांना मार्गदर्शन करण्यात आले. या कार्यक्रमाला अध्यक्ष म्हणून महाविद्यालयाचे सन्माननीय प्राचार्य डॉ. दिलीप हांडे हे होते. तसेच प्रमुख पाहुणे व वक्ते म्हणून ग्रामीण रुग्णालयाचे जिल्हा समुपदेशक गजानन देशमुख यांचे मार्गदर्शन लाभले. यावेळी व्यासपीठावर नांदुरा ग्रामीण रुग्णालय रेड रिबन क्लबचे अधिकारी संदीप गोंड, सतीश डाबरे, रासेयो कार्यक्रम अधिकारी प्रा. शांताराम भोये, रासेयो महिला कार्यक्रम अधिकारी प्रा. सुनंदा डेकाटे, प्रा. सचिन



जाधव उपस्थित होते. यावेळी गजानन देशमुख यांनी उपस्थित विद्यार्थ्यांना मार्गदर्शन करताना एच. आय. व्ही. (एड्स) बाबत अत्यंत उपयुक्त माहिती दिली. हा आजार बाधित किंवा एका पेक्षा जास्त व्यक्ती सोबत असुरक्षित शारीरिक संबंध ठेवल्याने, बाधित सुई किंवा इंजेक्शन, बाधित व्यक्तीचे रक्त व रक्तघटक घेतल्याने आणि संसर्गित आई-वडीलापासून त्यांच्या होणाऱ्या बाळाला, या चार कारणातूनच हा आजार होत असल्याचे सांगितले. अशक्तपणा, थकवा, अंगावर पुरळ किंवा नागीण येणे, रोज रात्री हलकासा ताप, खोकला वगैरे ही लक्षणे या आजाराची असून, अशी काही लक्षणे आढळल्यास जवळच्या शासकीय रुग्णालयात

जाऊन आपली एच. आय. व्ही. तपासणी मोफत करून घ्यावी, असे सांगितले. एकमेकांसोबत राहिल्याने, एकमेकांचे कपडे, अथरून पांघरूण वापरल्याने, एकच संडास किंवा भांडे वापरल्यामुळे हा आजार होत नाही, त्यामुळेच बाधित व्यक्तीला आपल्यापासून दूर करू नका, त्याला प्रेम, माया द्या, त्याला समाजात सन्मानाने जगू द्या, असे सांगितले. हा आजार होऊ नये म्हणून असुरक्षित शारीरिक संबंध टाळावे, नेहमी निरोधचा वापर करावा, रक्त किंवा रक्तघटक घेताना ते शासकीय रक्त पेढीतूनच किंवा योग्य तपासणी करूनच रक्त घ्यावे, आईवडिलांना असेल तर त्यांना वेळीच योग्य औषधोपचार चालू करून त्यांच्या होणाऱ्या

बाळाला या आजारापासून वाचवण्याचे प्रयत्न करावे, तसेच या आजारावर आजपर्यंत कुठलीही लस किंवा औषध उपलब्ध नसून ए. आर. टी. औषधोपचार घेतल्यास रुग्ण चांगल्या प्रकारे आपले जीवनमान जगू शकतो. महाविद्यालयीन युवकांनी जास्तीत जास्त संख्येने आपली एच. आय. व्ही. तपासणी करून घ्यावी, लग्नाअगोदर मुलगा किंवा मुलगी दोघांनी मिळून एच. आय. व्ही. तपासणी करून घ्यावी, व या आजाराला निर्बंध घालावा, असे प्रतिपादन केले. प्रा. सचिन जाधव यांनी या रोगाविषयी असणारे समज गैरसमज, एच. आय. व्ही. होण्याचे कारणे, याविषयी मुलांशी संवाद साधला. महाविद्यालयाचे प्राचार्य, डॉ. दिलीप हांडे यांनी अध्यक्षीय मनोगत व्यक्त केले. कार्यक्रमाचे प्रास्ताविक प्रा. शांताराम भोये यांनी केले. प्रा. सुनंदा डेकाटे यांनी सूत्रसंचालन व आभार मानले. तसेच या कार्यक्रमाप्रसंगी महाविद्यालयातील प्राध्यापक, शिक्षक व विद्यार्थी मोठ्या संख्येने उपस्थित होते.

पेठण, नगर परिषद कॉम्प्लेक्स, एसडीओ ऑफिससमोर खामगाव ४४४३०३ येथे प्रसिद्ध केले. संपादक विप्लव गोपीकिशन बाजोरीया, भ्रमणध्वनी क्र.९४२२८८३५४९, कार्यकारी संपादक प्रशांत देशमुख काशनास बा पुन:मुद्रणास मनाई. सर्पक-पीआरओ ७७९८८८७८९९, जाहिरात-७३७८३३६६९९, यवतमाळ-९३७२६१०३०६, अमरावती- ०७२१-२५५०८५०, वाशिम-९३२५८४३७८१



News Cutting on Celebration of Birth Anniversary of Mahatma Gandhi

श्री पुंडलिक महाराज महाविद्यालयात महात्मा गांधी व शास्त्री जयंती साजरी



नांदुरा। श्री शिवाजी शिक्षण संस्था, अमरावती द्वारा संचालीत, श्री पुंडलिक महाराज महाविद्यालय, नांदुरा येथे राष्ट्रीय सेवा योजना आणि सांस्कृतिक विभाग यांच्या संयुक्त विद्यमाने महाविद्यालयाचे प्राचार्य डॉ. दिलीप हांडे यांच्या उपस्थितीत अहिंसेचे पुजारी राष्ट्रपिता महात्मा गांधी व जय जवान, जय किसान हा नारा देणारे भारताचे माजी पंतप्रधान स्व.लालबहादूर शास्त्री यांची संयुक्त जयंती साजरी करण्यात आली. महाविद्यालयाचे प्राचार्य डॉ. दिलीप हांडे यांनी राष्ट्रपिता महात्मा गांधी आणि लालबहादूर शास्त्री यांच्या प्रतिमेला पुष्पहार अर्पण करून अभिवादन केले. तसेच त्यांच्या कार्याचा उलगडा केला. कार्यक्रमाचे आयोजन प्रा. डॉ. अनिता काटगाये, प्रा. अतुल इंदाने, रा. से. यो. कार्यक्रम अधिकारी प्रा. शांताराम भोये व रा. से. यो. महिला कार्यक्रम अधिकारी प्रा.सुनंदा डेकारे यांनी केले. संचालन व आभार प्रा.अतुल इंदाने यांनी केले.

News Cutting on Cleanliness Drive

श्री पुंडलिक महाराज महाविद्यालयात स्वच्छता मोहीम

मातृभूमि वृत्तसेवा

। नांदुरा, दि. १९।

श्री शिवाजी शिक्षण संस्था, अमरावती द्वारा संचालीत, श्री पुंडलिक महाराज महाविद्यालय, नांदुरा रेल्वे येथील राष्ट्रीय सेवा योजना पथकाच्या वतीने केंद्र शासन तसेच महाराष्ट्र शासन यांच्या १८ ऑक्टोबर २०२२ च्या परिपत्रकानुसार महाविद्यालयात मिशन क्लीन इंडिया अंतर्गत स्वच्छता मोहीम राबविण्यात आली.

या उपक्रमाचे आयोजन महाविद्यालयाचे सन्माननीय प्राचार्य डॉ. दिलीपजी हांडे



यांच्या मार्गदर्शनाखाली रा. से. यो. कार्यक्रम अधिकारी प्रा. शांताराम भोये व महिला कार्यक्रम अधिकारी प्रा. सुनंदा डेकारे यांच्या उपस्थितीत महाविद्यालयातील राष्ट्रीय सेवा योजना पथकाच्या माध्यमातून बुधवार दि. १९ ऑक्टोबर २०२२ रोजी सकाळी १०.०० ते १२.०० या कालावधीत

प्लास्टिक निर्मूलन मोहीम राबविण्यात आली. या मोहीमेमध्ये महाविद्यालयातील प्रांगण स्वच्छ केले व महाविद्यालयाच्या परिसरातील दूर पसरलेले प्लास्टिक गोळा करून त्याचे निर्मूलन करण्यात आले. या मोहिमेत साधारणतः २० किलोग्रॅम प्लास्टिक गोळा करून त्याची योग्यरित्या

विल्हेवाट लावण्यात आली. या उपक्रमात महाविद्यालयातील प्रा. डॉ. गजानन विरकर, प्रा. डी. एम. गायकवाड, प्रा. डॉ. सचिन मुखमाले, प्रा. अमोल निपटे, प्रा. सुनील चव्हाण, प्रा. निलकेश धुर्वे तसेच जास्तीत जास्त रासेयोच्या स्वयंसेवकांनी उपस्थित राहून आपला सहभाग नोंदविला.

श्री.पुंडलिक महाराज महाविद्यालय, नांदुरा येथे रा. से. यो. च्यावतीने स्वच्छता अभियान संपन्न



नांदुरा : श्री.पुंडलिक महाराज महाविद्यालय, नांदुरा रेल्वे येथे बुधवार दि. ०/०/२० रोजी राष्ट्रीय सेवा योजनेच्या वतीने वा आझादी का अमृत महोत्सव व हर घर तिरंगा या निमित्ताने महाविद्यालय परिसरामध्ये राष्ट्रीय सेवा योजनेच्या वतीने स्वच्छता अभियान राबविले व महाविद्यालय परिसरातील गवत निर्मूलन स्वच्छता, झाडांचे पडलेली पाने, प्लास्टिक

मुक्तता परिसर केला. या कार्यक्रमाचे आयोजन महाविद्यालयाचे प्राचार्य आदरणीय ड. दिलीपजी हांडे यांच्या मार्गदर्शनाखाली तसेच अर्थशास्त्र विभाग प्रमुख प्रा. ड. अलका मानकर, रा. से. यो. चे कार्यक्रम अधिकारी प्रा. शांताराम भोये व रा. से. यो. महिला कार्यक्रम अधिकारी प्रा. सुनंदा डेकाटे यांनी केले. हा कार्यक्रम यशस्वी करण्यासाठी प्रा. ड. सचिन मुखमाले, प्रा. सुनिल चव्हाण, प्रा. ड. अनिता काटगाये, प्रा. ड. प्रतिभा आत्राम, प्रा. ड. गजानन विरकर प्रा. ड. स्मिता तराळे, प्रा. ड. रवीकुमार शिंदे, प्रा. ड. सुचिता दिघे, प्रा. अमोल निपटे, प्रा. निलकेश धुर्वे, प्रा. सचिन जाधव, प्रा. सुप्रिया गेडाम, प्रा. स्वाती कदम, महाविद्यालयातील सर्व शिक्षक व शिक्षकेत्तर कर्मचारी, तसेच विद्यार्थ्यांनी परिश्रम घेतले.

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