

Name of the Subject teacher: Durgule Mayuri Madhukar (2021-2022)



Programme: B.Sc
Title of the Paper: Botany
SEMESTER: 1

Course: CBCS B.Sc
Paper No : II

| Month | Module / /Unit | Sub-Modules/Units Planned |
|---------------------|---|---|
| Month: October | Admission Process Bridge Course | Admission process |
| Periods Allotted : | | |
| Month: November | Introductory Session & Module - I (Bryophytes) | Introductory Session – Course Structure, Syllabus and Exam Pattern including PO's and CO's, Scope for Progression (H/V) |
| Periods Allotted: 8 | | General characters adaptation to land habit, Classification- Alternation of generation- Economic importance- |
| | | Morphology, anatomy and life cycle- Hepaticopsida- Riccia Bryopsida- Funaria Quick test-1 |
| Month: December | Module - II (Pteridophytes) | General characters- Classification- |
| Periods Allotted: 6 | | Morphology, anatomy and life cycle- a. Lycopsida- Selaginella b. Pteropsida- Pteris Heterospory and seed habitat |
| | | Quick Test -2 |
| Month: January | Module - III (Gymnosperm) | General character, classification, general character of each class with suitable example, Economic importance of Gymnosperm |
| | | Morphology, anatomy and life cycles:- Gnetopsida- Gnetum |

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| Periods Allotted: 4 | | Group discussion ,Guest lecture Assignment |
| Month: February | Module – IV Activities | Presentation, seminar, Field visit- Shivaji University Kolhapur |

Winter Break : Internship Programme

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Dr. B. N. Bhosale
 Principal,
 Prof. Sambhajirao Kadam College,
 Deur, Tal. Koregaon, Dist. Satara.

Annual Academic Plan (2021 - 2022)



Name of the Subject teacher: Durgule Mayuri Madhukar

Programme: B.Sc

Title of the Paper: Botany

SEMESTER: 2

Course: CBCS B.Sc

Paper No : IV

| Month | Module //Unit | Sub-Modules/Units Planned |
|----------------------|--|--|
| Month: April | Introductory Session & Module - I (Introduction Taxonomy, ICBN, Botanical Gardens) | Introduction, importance of Taxonomy Functions of Taxonomy Identifications, Nomenclature, Binomial Nomenclature, Salient features of International Code of Botanical Nomenclature (ICBN) |
| Periods Allotted: 8 | | Quick test-1 |
| Month : May | Module - II (Angiosperms And System of classification) | Herbarium Introduction, Role and Significance Botanical Garden : Introduction , Role and Significance. Study of Sir J.C.Bose Botanical Garden, culcutta Lead Botanical Garden , Shivaji University, Kolhapur |
| Periods Allotted: 12 | | Quick Test -2 |
| Month: June | Module - III (Angiosperms And System of classification) | Salient features of Angiosperms Types of Classification –Natural, Artificial. Phylogenetic Bentham And Hooker's System of classification |
| Periods Allotted: 11 | | Quick Test -3 |
| Month: July | Module – IV (Study of angiosperm families) | Study of Angiosperm Families Morphological Floral and distinguishing characters of following families with examples of plants of economic importance. |
| Periods Allotted: 11 | | 1 Caesalpiniaceae 2 Solanceae |

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| Month: August | (Study of angiosperm families) | 3 Nyctaginaceae 4 Liliaceae |
| Periods Allotted: 11 | | Group discussion ,Guest lecture Assignment |
| Month: September | | Exam preparation |

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Annual Academic Plan (2020 - 2021)



Name of the Subject teacher: Choudhari S.B.

Programme: Zoology

Course: B.Sc-1 & 2

Title of the Paper: Animal Diversity-I & Animal Diversity II

Paper No.: 1 & 5

SEMESTER: 1

| Month | Module // Unit | Sub-Modules/Units Planned |
|---------------------|--|---|
| Month: June | Admission Process Bridge Course | Admission process |
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| Periods Allotted:15 | | |
| Month: July | Introductory Session & Module - I Paper I-(Study of non-chordates) | Introductory Session – Course Structure, Syllabus and Exam Pattern including PO's and CO's. Scope for Progression (H/V) |
| | | Kingdom-protista,phylum-porifera,phylum-cnidaria |
| Periods Allotted:20 | Paper V- (Protochordates ,Agnatha) | General characters and Classification of Protochordata. |
| | | General characters of Agnatha and Classification of cyclostomes up to classes. |
| | | Quick Test / Unit Test |
| Month: August | Module - II Paper I-(phylum-platyhelminthes, Aschehelminthes) | General characters.classification.life history,parasitic adaptations of Taenia solium |
| | | General characters.classification.life history,parasitic adaptations of Ascaris |
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| Periods Allotted: 20 | Paper V- (Pices,Amphibia) | Quick Test / Unit Test / Mid Term Exam General characters and Classification up to orders: Respiration in Fishes. General features and Classification up to orders: Parental care. |
| Month: September | Module - III Paper I (Phylum-Arthropoda. Phylum-Annelida.phylum-mollusca.echinoder mata) Paper V-(Reptiles & Aves.Mammals) | General characters.classification.vision in arthropoda. Metamorphosis in insects.tortion in gastropods.water vascular system in Asteroidea General characters and Classification Venomous and non-venomous snakes. Biting mechanism in snakes. General characters and Classification up to orders; Digestive and Respiratory systems. General characters and Classification. Circulatory of mammals. |
| Periods Allotted:20 | | Quick Test / Unit Test Group discussion Classroom Seminars / Group Projects |
| Month: October | | Revision of syllabus Complition of journals & practicals Project Work (wherever assigned) |
| Periods Allotted:15 | Module - IV Exam Preparatory Session | Quick Test / Unit Test Remedial Coaching for Slow Learners and Backlog Students Term End University Examination |

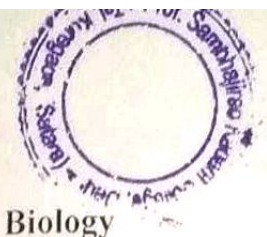
Winter Break : Internship Programme

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Title of the Paper: Cell Biology & Evolutionary Biology, Reproductive Biology

Paper No.: 3 & 7

SEMESTER: II



| Month | Module // Unit | Sub-Modules/Units Planned |
|----------------------|---|---|
| Month: November | Introductory Session | Introductory Session – Course Structure, Syllabus and Exam Pattern including PO's and CO's. Scope for Progression (H/V) |
| | | Introduction to cell biology & evolutionary biology |
| | | Introduction to Genetics |
| Periods Allotted: 15 | | |
| Month: December | Module - I Paper III-(Cell structure) Paper VII-(Functional anatomy of female reproduction) | Cell theory & diversity in cell size and shape, structure of nucleus, structure of chromosome, morphology & organization, polytene chromosome |
| | | Introduction, Outline and histological structure of female reproductive system in rat and human. |
| | | Quick Test / Unit Test |
| Month: January | Module - II Paper III-(Ultrastructure & | Introduction of cell organelles, plasma membrane, mitochondria, |
| | | Endoplasmic reticulum, Golgi complex, Lysosome |

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| Periods Allotted: 20 | functions of the following) Paper VII- (Functional anatomy of male reproduction) | Outline and histology of male reproductive system in human Quick Test / Unit Test / Mid Term Exam |
| Month: February | Module - III Paper III-(History of life) Paper VII- (Reproductive Health) | Major events in history of life.Lamarckism.Darwinism.Neo-Darwinism Types of fossils,Incompleteness of fossil record.Dating of fossils Infertility in male and female: causes, diagnosis and management Quick Test / Unit Test Group discussion Classroom Seminars / Group Projects |
| Periods Allotted:20 | | Mass extinction.Role of extinction in evolution |
| Month: March | Module - IV Paper III- (Extinction) Paper VII- (Reproductive Health) | Assisted Reproductive Technology: sex selection, sperm banks, frozen embryos, in vitro fertilization, ET, EFT, IUT, ZIFT, GIFT, ICSI, PROST; Modern contraceptive technologies. Revision of syllabus Completion of practicals & journals Project Work (wherever assigned) Quick Test / Unit Test |
| Periods Allotted:15 | | |
| Month: April | Exam Preparatory Session | Remedial Coaching for Slow Learners and Backlog Students Term End University Examination |
| Periods Allotted:15 | | |

Summer Break : Internship Programme

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