

DANTULURI NARAYANA RAJU COLLEGE(AUTONOMOUS)

(A College with Potential for Excellence)

Bhimavaram, W.G.Dist, A.P

Syllabus for the Academic Year 2013-14

Department:Botany Paper:IA-Evolution of Life & Diversity of Microbes,Algae and Fungi Class-
IBZC Semester-I

Topics to be covered
Teaching Modal Paper&Syllabus.
Origin and Evolution of Life – an outline
Viruses: Structure, replication and transmission;
Plant diseases caused by Viruses and their Control.
Bacteria: Structure, nutrition, reproduction and economic importance
Plant Diseases of Important Crop Plants caused by Bacteria and their Control.
Cyanobacteria: General account of Cell, Bio-fertilizers
Structure and Life history of Oscillatoria,Nostoc and Anabaena.
Algae: General account thallus organization, structure, Reproduction.
Classification&Economic Importance of Algae.
Structure, reproduction, life history and systematic position of Oedogonium
Coleochaete, Chara, Ectocarpus and Polysiphonia.
Fungi: General characters, classification and economic importance.
Structure, reproduction and life history of Albugo. Saccharomyces
Penicillium, Puccinia, Alternaria
General account of plant diseases caused by Fungi and their control.
Lichens: Structure and reproduction; ecological and economic importance.

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Syllabus for the Academic Year 2013-14

Department :Botany Paper:IB-Bryophyta,Pteridophyta,Gymnosperms&Paleobotany Class-IBZC
Semester-II

Teaching Modal Paper&Syllabus.
Bryophytes: General Characters, classification and alternation of generations
Structure, reproduction, life history and systematic position of Marchantia
Anthoceros and Polytrichum
Pteridophytes: General Characters, classification, Alternation of Generations
Evolution of Sporophyte.
Structure, reproduction, Life History and systematic position of Rhynia,
Lycopodium, Equisetum and Marsilea.
Evolution of stele, heterospory and seed habit in Pteridophytes.
Gymnosperms: General Characters, Structure, Reproduction and classification
Morphology of Vegetative and Reproductive parts, systematic position, life history of Pinus,Gnetum.
Palaeobotany: Introduction, Fossils and Fossilization
Geological Time scale, importance of Fossils.
Bennetitales: General account

DANTULURI NARAYANA RAJU COLLEGE(AUTONOMOUS)

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Bhimavaram, W.G.Dist, A.P

Syllabus for the Academic Year 2014-15

Department: Botany Paper: IA-Evolution of Life & Diversity of Microbes, Algae and Fungi
Class-IBZC Semester-I

Teaching Modal Paper&Syllabus.
Origin and Evolution of Life – an outline
Viruses: Structure, replication and transmission;
Plant diseases caused by Viruses and their Control.
Bacteria: Structure, nutrition, reproduction and economic importance
Plant Diseases of Important Crop Plants caused by Bacteria and their Control.
Cyanobacteria: General account of Cell, Bio-fertilizers
. Structure and Life history of Oscillatoria, Nostoc and Anabaena.
Algae: General account thallus organization, structure, Reproduction.
Classification&Economic Importance of Algae.
Structure, reproduction, life history and systematic position of Oedogonium
Coleochaete, Chara, Ectocarpus and Polysiphonia.
Fungi: General characters, classification and economic importance.
Structure, reproduction and life history of Albugo. Saccharomyces
Penicillium, Puccinia, Alternaria
General account of plant diseases caused by Fungi and their control.
Lichens: Structure and reproduction; ecological and economic importance.

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Syllabus for the Academic Year 2014-15

Department :Botany Paper:IB-Bryophyta,Pteridophyta,Gymnosperms&Paleobotany Class-IBZC
Semester-II

Teaching Modal Paper&Syllabus.
Bryophytes: General Characters, classification and alternation of generations
Structure, reproduction, life history and systematic position of Marchantia
Anthoceros and Polytrichum
Pteridophytes: General Characters, classification, Alternation of Generations
Evolution of Sporophyte.
Structure, reproduction, Life History and systematic position of Rhynia,
Lycopodium, Equisetum and Marsilea.
Evolution of stele, heterospory and seed habit in Pteridophytes.
Gymnosperms: General Characters, Structure, Reproduction and classification
Morphology of Vegetative and Reproductive parts, systematic position, life history of Pinus.Gnetum
Palaeobotany: Introduction, Fossils and Fossilization
Geological Time scale, importance of Fossils.

DANTULURI NARAYANA RAJU COLLEGE(AUTONOMOUS)

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Bhimavaram, W.G.Dist, A.P

Syllabus for the Academic Year 2015-16

Department: Botany Paper: IA-Evolution of Life & Diversity of Microbes, Algae and Fungi Class
IBZC Semester-I

Teaching Modal Paper&Syllabus.
Origin and Evolution of Life – an outline
Viruses: Structure, replication and transmission;
Plant diseases caused by Viruses and their Control.
Bacteria: Structure, nutrition, reproduction and economic importance
Plant Diseases of Important Crop Plants caused by Bacteria and their Control.
Cyanobacteria: General account of Cell, Bio-fertilizers
. Structure and Life history of Oscillatoria, Nostoc and Anabaena.
Algae: General account thallus organization, structure, Reproduction.
Classification&Economic Importance of Algae.
Structure, reproduction, life history and systematic position of Oedogonium
Coleochaete, Chara, Ectocarpus and Polysiphonia.
Fungi: General characters, classification and economic importance.
Structure, reproduction and life history of Albugo. Saccharomyces
Penicillium, Puccinia, Alternaria
. General account of plant diseases caused by Fungi and their control.
. Lichens: Structure and reproduction; ecological and economic importance.

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Syllabus for the Academic Year 2015-16

Department :Botany Paper:IB-Bryophyta,Pteridophyta,Gymnosperms&Paleobotany Class-IBZC
Semester-II

Teaching Modal Paper&Syllabus.
Bryophytes: General Characters, classification and alternation of generations
Structure, reproduction, life history and systematic position of Marchantia
Anthoceros and Polytrichum
Pteridophytes: General Characters, classification, Alternation of Generations
Evolution of Sporophyte.
Structure, reproduction, Life History and systematic position of Rhynia,
Lycopodium, Equisetum and Marsilea.
Evolution of stele, heterospory and seed habit in Pteridophytes.
Gymnosperms: General Characters, Structure, Reproduction and classification
Morphology of Vegetative and Reproductive parts, systematic position, life history of Pinus,Gnetum.
Palaeobotany: Introduction, Fossils and Fossilization
Geological Time scale, importance of Fossils.
Bennetitales: General account

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Syllabus for the Academic Year 2016-17

Department :Botany Paper :I A-Microbial Diversity and Algae,Fungi Class:I BZC Semester:I

Teaching Modal Paper&Syllabus.
Origin and Evolution of Life – an outline
Viruses: Structure, replication and transmission;
Plant diseases caused by Viruses and their Control.
Bacteria: Structure, nutrition, reproduction and economic importance
Plant Diseases of Important Crop Plants caused by Bacteria and their Control.
Cyanobacteria: General account of Cell, Bio-fertilizers
Structure and Life history of Oscillatoria,Nostoc and Anabaena.
Algae: General account thallus organization, structure, Reproduction.
Classification&Economic Importance of Algae.
Structure, reproduction, life history and systematic position of Oedogonium
Coleochaete, Chara, Ectocarpus and Polysiphonia.
Fungi: General characters, classification and economic importance.
Structure, reproduction and life history of Rizopous, Penicillium, Puccinia.
General account of plant diseases caused by Fungi and their control.
Lichens: Structure and reproduction; ecological and economic importance.

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Syllabus for the Academic Year 2016-17

Department :Botany Paper IB: Diversity of Archaeogoniates &Plant Anatomy Class:I BZC Semester:II

Teaching Modal Paper&Syllabus.
Bryophytes: General Characters, classification and alternation of generations
Structure, reproduction, life history and systematic position of Marchantia
Anthoceros and Polytrichum
Pteridophytes: General Characters, classification, Alternation of Generations
Evolution of Sporophyte.
Structure, reproduction, Life History and systematic position of Rhynia,
Lycopodium, Equisetum and Marsilea.
Evolution of stele, heterospory and seed habit in Pteridophytes.
Gymnosperms: General Characters, Structure, Reproduction and classification
Morphology of Vegetative and Reproductive parts, systematic position, life history of Pinus,Gnetum.
Meristems: Types, Histological organization of shoot and root apices and theories
Primary shoot in Dicots and Monocts, Tissues and Tissue systems; simple and complex
Anomalous secondary growth – general account. - Achyranthes, Boerhavia, Dracaena

DANTULURI NARAYANA RAJU COLLEGE(AUTONOMOUS)
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Bhimavaram, W.G.Dist, A.P
Syllabus for the Academic Year 2018-19

Department :Botany Paper : IA-Microbial Diversity&Algae,Fungi Class:I BZC Semester:I

Teaching Modal Paper&Syllabus.
Origin and Evolution of Life – an outline
Viruses: Structure, replication and transmission;
Plant diseases caused by Viruses and their Control.
Bacteria: Structure, nutrition, reproduction and economic importance
Plant Diseases of Important Crop Plants caused by Bacteria and their Control.
Cyanobacteria: General account of Cell, Bio-fertilizers
. Structure and Life history of Oscillatoria, Nostoc and Anabaena.
Algae: General account thallus organization, structure, Reproduction.
Classification&Economic Importance of Algae.
Structure, reproduction, life history and systematic position of Oedogonium
Coleochaete, Chara, Ectocarpus and Polysiphonia.
Fungi: General characters, classification and economic importance.
Structure, reproduction and life history of Rizopous, Penicillium, Puccinia
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Syllabus for the Academic Year 2018-19

Department :Botany Paper 1B: Diversity of Archaeogoniates &Plant Anatomy Class:I BZC Semester:II

Teaching Modal Paper&Syllabus.
Bryophytes: General Characters, classification and alternation of generations
Structure, reproduction, life history and systematic position of Marchantia
Anthoceros and Polytrichum
Pteridophytes: General Characters, classification, Alternation of Generations
Evolution of Sporophyte.
Structure, reproduction, Life History and systematic position of Lycopodium
Equisetum and Marsilea.
Evolution of stele, heterospory and seed habit in Pteridophytes.
Gymnosperms: General Characters, Structure, Reproduction and classification
Morphology of Vegetative and Reproductive parts, systematic position, life history of Pinus, Gnetum.
Meristems: Types, Histological organization of shoot and root apices and theories
Primary shoot in Dicots and Monocots, Tissues and Tissue systems; simple and complex
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