**WEEK WISE LESSON PLAN, odd Semester 2022-23**

Name of the Assistant Professor: **ANJU TANWAR,**

Class & Section: **B.Sc. MEDICAL, Ist Sem,** Subject: **BOTANY**

**Month: September, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | - |
| **Week 2** | Syllabus discussion, suggest reading materials  Bacteria: Structure, Nutrition, |
| **Week 3** | Bacteria: reproduction and economic importance |
| **Week 4** | General account of Cyanobacteria  Algae: General characters and classification (upto classes) |
| **Week 5** | Important features of Chlorophyceae  Important features and life history of *Volvox*  Systematic position, occurrence, |

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**Month: October, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | *Volvox:* vegetative structureand Reproduction |
| **Week 2** | Important features and life history of *Oedogonium*  Systematic position, occurrence, vegetative structure, Reproduction, life cycle |
| **Week 3** | Important features of class Xanthophyceae  Important features and life history of *Vaucheria*  Systematic position, occurrence, vegetative structure |
| **Week 4** | *Vaucheria:* reproduction and life history |

**Month: November, 2022**

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| **Week** | **Topics** |
| **Week 1** | Important features of class Phaeophyceae  Important features and life history of *Ectocarpus* |
| **Week 2** | *Ectocarpus*: Systematic position, occurrence, vegetative structure and reproduction |
| **Week 3** | Important features of class Rhodophyceae  Class test / seminar/ audio-video demonstration |
| **Week 4** | Diwali vacations and test |
| **Week 5** | Important features and life history of *Polysiphonia*  Systematic position, occurrence, vegetative structure |

**Month: December, 2022**

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| **Week** | **Topics** |
| **Week 1** | *Polysiphonia*: reproduction |
| **Week 2** | General Account of Viruses |
| **Week 3** | General Account of Lichens |
| **Week 4** | Revision |
| **Week 5** | Examination |

**WEEK WISE LESSON PLAN, odd Semester 2022-23**

Name of the Assistant Professor: **ANJU TANWAR,**

Class & Section: **B.Sc. MEDICAL, VIth Sem,** Subject: **BOTANY**

**Month: September, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | - |
| **Week 2** | Plant water relations: Imbibition, Diffusion, Osmosis and Plasmolysis |
| **Week 3** | Transport of water: Ascent of sap,  Theories of ascent of sap |
| **Week 4** | Transpiration and its types (Physiology of stomata, Factors affecting transpiration, Importance of transpiration) |
| **Week 5** | Mechanism of mineral absorption: Passive transport & Active transport |

**Month: October, 2022**

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| **Weeks** | **Topics** |
| **Week 1** | Mechanism of phloem tansport: path of translocation, Mechanism of transport, Source and sink relationship |
| **Week 2** | Photosynthesis: definition, mechanism, historical aspect  Photosynthesis: photosynthetic pigments  Location and concept of two photosystems, |
| **Week 3** | Action and absorption spectrum  Photosynthesis: Z scheme, photo-phosphorylation/Light reaction (cyclic and non-cyclic) |
| **Week 4** | Photosynthesis: Dark reaction-Calvin cycle  Photosynthesis: C4 cycle |

**Month: November, 2022**

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| **Week** | **Topics** |
| **Week 1** | Photosynthesis: CAM plants  Photosynthesis: Photorespiration |
| **Week 2** | Respiration: definition, historical aspect, respiratory quotient  Respiratory substrates |
| **Week 3** | Class test / seminar/ audio-video demonstration Mineral nutrition |
| **Week 4** | Diwali vacations and test |
| **Week 5** | Mechanism of Anaerobic respiration  Glycolysis, Krebs cycle |

**Month: December, 2022**

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| **Week** | **Topics** |
| **Week 1** | Electron transport mechanism (chemiosmotic), ATP the biological currency, Pentose phosphate pathway |
| **Week 2** | Seed dormancy, Plant Movement  Photoperiodism Physiology of flowering |
| **Week 3** | Florigen concept Physiology of Senescence  Fruit ripening |
| **Week 4** | Revision |
| **Week 5** | Examination |