**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 materialsBacteria: 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 pigmentsLocation 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 cyclePhotosynthesis: 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 MovementPhotoperiodism Physiology of flowering |
| **Week 3** | Florigen concept Physiology of SenescenceFruit ripening |
| **Week 4** | Revision |
| **Week 5** | Examination |