Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous) Structured Work Plan for Teaching (2021-22)

Details of Classes to be taught

| Sr. No. | Class | Name of Assit. Prof. | Subject | Paper |
|---------|----------------------|----------------------|---------|-------------------------------|
| 1 | M.Sc.I | D.S.Chavan | Botany | Paper VII :Plant Physiology & |
| | ummows of I are a DI | | | Metabolism |

Summary of Lesson Plan
Name of Teacher D.S.Chavan

Class: M.Sc.I (II semester)

| Sr. No. | Subject | Unit and Chapter to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test / Assignment with topic and date |
|------------|--|---|----------------------------|--------------------|-------------------------------------|--|
| 1 | Credit: I Transport and translocation mechanism: (15L) | Solute transport and photoassimilates translocation Uptake, transport and translocation of water, ions, solutes and macromolecules from soil, through cells, across membranes, through xylem and phloem, nutrient uptake through root microbe interaction; membrane transport proteins. Nitrogen metabolism:, Root nodulation and nitrogen fixation. | 02-02-22 To 18-02-22 | 07 | | Assignment-I |

| | | 2 Nitrogon untoko | · · · · · · · · · · · · · · · · · · · | | | |
|---|----------------------------|---|---------------------------------------|----|------------|---------------|
| | | 2. Nitrogen uptake | | | | |
| | | 3. NOD factor | | | | |
| | Credit: II Stress | 1 Stress physiology: - Responses of | 21-02-22 | 07 | Students | |
| | physiology and | plants to biotic (pathogen and insects) | То | | Seminars | |
| | Senescence (15L) | and abiotic (water, temperature and | 10-03-22 | | | |
| | | salt) stresses. | | | | |
| | | 2.Senescence: Mechanism, physiology | | 08 | | |
| | | of senescence; role of hormones, | | | 3 | |
| | | biochemical aspects, significance in fruit | | | | |
| | | ripening. | | | | |
| | | Photosynthesis: Evolution of | | 05 | | |
| | Credit: III Photosynthesis | photosynthetic apparatus, | | | | |
| | (15L) | photoxidation of water, Hills reaction, | 11-03-22 | | | |
| | | two-pigment system, mechanism of | To 29-03-22 | | Class Oviz | Accient |
| | - | electron and proton H+ transport. | 27-03-22 | 05 | Class Quiz | Assignment-II |
| | | Carbon assimilation pathways in C3, C4 | | | | |
| Ì | | and CAM plants. Photosynthetic | ` | | | |
| | | productivity in these plants, and | | | | |
| | | significance. | | | | |
| | | Photorespiration: Glycolate pathway, Glyoxylate pathway, biochemical basis of photorespiration, significance. | | 05 | | |

| Credit: IV Plant | Secondary metabolites - | | 08 | |
|------------------|--|----------------|----|--|
| Metabolism (15L) | Biosynthesis of terpenes, phenols and | | | |
| | nitrogenous compounds and their roles. | 30-03-22 | | |
| | Phytohormones: Biosynthesis and | To 13-04-22 | 07 | |
| | mechanism of action of Phytohormones auxin, gibberellin, cytokinin, ethylene and ABA. Brassinosteriods, Jasmonic | 13-04-22 | 07 | |
| | acids, Polyamines, salicylic acid | | | |

Bhavan Teacher

Head

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya
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