Assignment Titles for Fourth Semester- 2022-2024 Batch

Roll No.	Name	Assignment Titles
2022023460001	DAISY A	4.1.a. Plant genome organization: Nucleus, Chloroplast and Mitochondria. 4.1.b. Structural features of a typical plant gene. 4.2. Non probability sampling techniques and random sampling techniques. 4.3. Water irrigation; advanced irrigation system such as drip, microtube and sprinkler systems.
2022023460002	VISHNU PRIYA R	4.1.a. Molecular markers – STS, Microsatellites, RAPD, SCAR and AFLP. 4.1.b. Tagging, mapping and cloning of plant genes 4.2. Measures of central tendency: Mean - median - mode 4.3. Vegetative propagation using stem, leaf and root cuttings
2022023460003	SIVASANKARI A	4.1.a. Mitochondrial genome and Cytoplasmic male sterility 4.1.b. Regulation of gene expression in plant development 4.2. Measures of dispersion: Range - mean deviation - standard deviation. 4.3. Propagation by division and layering, bulbs, corms, tubers and rhizomes-budding and grafting
2022023460004	SELVA JOTHI R	4.1.a. Classification and functions of Seed storage proteins. 4.1.b. Plant hormones and Plant transposons 4.2. Test of significance: Null hypothesis - alternate hypothesis 4.3. Indoor gardening: Foliage plants, flowering plants, hanging basket, Bonsai plants - Training and pruning.
2022023460005	BAKIA LAKSHMI B	4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and FlavrSavr® 4.2. Data base searches - FASTA, BLAST - PSI BLAST 4.3. Principles and methods of designing outdoor garden - hedges, edges, fences, trees, climbers, rockeries, arches, terrace garden
2022023460006	DIVYA BHARATHY G	4.1.a. Direct Plant transformation techniques. 4.1.b. Selectable markers: Types and their role in plant transformation. 4.2. PHYLODRAW- Phylogenetic tree. 4.3. Production of seeds, their certification, storage and germplasm collection
2022023460007	HAMEEDHA BANU O	4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia 4.1.b. Reporter genes: Types and role in optimizing transformation 4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices 4.3. Micropropagation – Introduction, stages and types of explants for commercial propagation, importance and applications of micropropagation

Assignment Titles for Fourth Semester- 2022-2024 Batch

2022023460008	FEMINA D	4.1.a. In-Direct plant transformation technique. 4.1.b. Plant genetic engineering for herbicide resistance 4.2. Laws of Thermodynamics and Energy transductions in biological systems. 4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications
2022023460009	SHOBHA R	4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia 4.1.b. Reporter genes: Types and role in optimizing transformation. 4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices 4.3. Layout for a model college garden
2022023460010	RAMYA A S	4.1.a. Direct Plant transformation techniques. 4.1.b. Selectable markers: Types and their role in plant transformation. 4.2. Data base searches - FASTA, BLAST - PSI BLAST 4.3. Lawn making and maintenance
2022023460011	SELVI R	4.1.a. Plant genetic engineering for Virus resistance (Antisense RNA approach, Cross protection Satellite RNA, Ribozymes and Coat protein mediated protection). 4.1.b. Promoters used in plant vectors. 4.2. Photobiology: Dual nature of light, characteristics of solar radiation, solar energy. 4.3. Native and synthetic hormones and other growth regulators- their importance in horticulture, gardening and landscaping
2022023460012	BOOMINATHAN A	4.1.a. In-Direct plant transformation technique. 4.1.b. Plant genetic engineering for herbicide resistance 4.2. Laws of Thermodynamics and Energy transductions in biological systems. 4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications
2022023460013	GURU LEXMI K	4.1.a. Direct Plant transformation techniques. 4.1.b. Selectable markers: Types and their role in plant transformation. 4.2. PHYLODRAW- Phylogenetic tree. 4.3. Production of seeds, their certification, storage and germplasm collection
2022023460014	KANIPRIYA V	4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia 4.1.b. Reporter genes: Types and role in optimizing transformation. 4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices 4.3. Layout for a model college garden

Assignment Titles for Fourth Semester- 2022-2024 Batch

2022023460015	DIVYA BHARATHI T	4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and FlavrSavr® 4.2. Data base searches - FASTA, BLAST - PSI BLAST 4.3. Principles and methods of designing outdoor garden - hedges, edges, fences, trees, climbers, rockeries, arches, terrace garden
2022023460016	REGHA N	4.1.a. Plant genome organization: Nucleus, Chloroplast and Mitochondria. 4.1.b. Structural features of a typical plant gene. 4.2. Non probability sampling techniques and random sampling techniques. 4.3. Water irrigation; advanced irrigation system such as drip, microtube and sprinkler systems.
2022023460017	JOTHI LAKSHMI R	4.1.a. Plant genome organization: Nucleus, Chloroplast and Mitochondria. 4.1.b. Structural features of a typical plant gene. 4.2. Non probability sampling techniques and random sampling techniques. 4.3. Water irrigation; advanced irrigation system such as drip, microtube and sprinkler systems.
2022023460018	SUGANTHI S	4.1.a. Molecular markers – STS, Microsatellites, RAPD, SCAR and AFLP. 4.1.b. Tagging, mapping and cloning of plant genes 4.2. Measures of central tendency: Mean - median - mode 4.3. Vegetative propagation using stem, leaf and root cuttings
2022023460019	AMALORPAVA ESKALIN VINNOLI X	4.1.a. Mitochondrial genome and Cytoplasmic male sterility 4.1.b. Regulation of gene expression in plant development 4.2. Measures of dispersion: Range - mean deviation - standard deviation. 4.3. Propagation by division and layering, bulbs, corms, tubers and rhizomes-budding and grafting
2022023460020	VIGNESWARI S	4.1.a. Classification and functions of Seed storage proteins. 4.1.b. Plant hormones and Plant transposons 4.2. Test of significance: Null hypothesis - alternate hypothesis 4.3. Indoor gardening: Foliage plants, flowering plants, hanging basket, Bonsai plants - Training and pruning.
2022023460021	SASI REKHA T	4.1.a. Direct Plant transformation techniques. 4.1.b. Selectable markers: Types and their role in plant transformation. 4.2. PHYLODRAW- Phylogenetic tree. 4.3. Production of seeds, their certification, storage and germplasm collection

Assignment Titles for Fourth Semester- 2022-2024 Batch

2022023460022	DEVA AARO VINCY A	4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia 4.1.b. Reporter genes: Types and role in optimizing transformation. 4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices 4.3. Layout for a model college garden
2022023460023	PREETHI J G	4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and FlavrSavr® 4.2. Data base searches - FASTA, BLAST - PSI BLAST 4.3. Principles and methods of designing outdoor garden - hedges, edges, fences, trees, climbers, rockeries, arches, terrace garden
2022023460024	JAYALAKSHMI K	4.1.a. Plant genome organization: Nucleus, Chloroplast and Mitochondria. 4.1.b. Structural features of a typical plant gene. 4.2. Non probability sampling techniques and random sampling techniques. 4.3. Water irrigation; advanced irrigation system such as drip, microtube and sprinkler systems.

Last Date for Submission of Assignments: 8th April, 2024 10:00 a.m.

Hard Copies of the Assignments should reach the following address on or before the Last Date mentioned above:

Dr. E. KANNAPIRAN
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Professor& Director
Centre for Distance and Online Education
Alagappa University
Karaikudi- 630 003