


Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Akhilesh Kumar Sem...IInd.....

Class and Section: B.Sc. (I) Subject: Botany (2.1 & 2.2)

Month	Topics
31 st January 2023	General chr. & classification of <u>Bryophyta</u>
<u>Paper-2.1</u> 01 st February to 28 th February 2023	(I) <u>Bryophyta</u> : Alternation of generation ----- Economic importance <u>unit-I</u> (II) <u>Bryophyta</u> : - structure & Reproduction of <u>Marchantia, Anthoceros & Funaria</u> - <u>unit-II</u>
1 st March to 31 st October 2023	(I) <u>Pteridophyta</u> : - General characters, classification ----- General account of stealer evo. <u>unit-III</u> (II) <u>Pteridophyta</u> : - structure & Reproduction of <u>Rhynia, Selaginella, Equisetum & Pteris</u> <u>unit-IV</u>
<u>Paper-2.2</u> 1 st April to 30 th April 2023	(I) <u>Genetic material</u> : DNA - The genetic material DNA str. ----- Repetitive DNA - <u>unit I</u> (II) <u>Genetic Inheritance</u> : Mendelism: Law of <u>Segregation</u> ----- Allelic and non-allelic interactions - <u>unit II</u>
1 st May to 08 th May 2023	(I) <u>Extranuclear Inheritance</u> : <u>Mutations</u> : <u>spontaneous</u> <u>and induced</u> ----- <u>DNA damage & repair</u> (II) Genetic variations: (I) <u>Extranuclear Inheritance & Genetic variations</u> <u>unit III</u> (II) <u>Gene expression</u> - <u>unit IV</u>


Teacher's Signature

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Name of the Assistant/ Associate Professor: Dr. Akhilesh Kr. Sem. IVth

Class and Section: ... B.Sc. (U) ... Subject: ... Botany (U-1 & U-2)

Paper 4.1

Month	Topics
17 th January to 31 st January 2023	Taxonomy & Systematics, Fundamental components Key to identification of plants - <u>unit-I</u>
01 st February to 28 th February 2023	Type concept, taxonomic rank - Types of Inflorescence - <u>unit. II</u> Diversity of flowering plants and Economic importance of the following families - Ranunculaceae & Brassicaceae - <u>unit III</u>
1 st March to 31 st October 2023	Malvaceae, Euphorbiaceae, Rutaceae, Fabaceae, & Cucurbitaceae. - <u>unit - III</u> Diversity of flowering plants: Diagnostic feature and economic importance of the families Apiaceae, Asclepiadaceae, Lamiaceae, Solanaceae, Asteraceae, Liliaceae & Poaceae - <u>Unit IV</u>
1 st April to 30 April 2023	Flower - a modified shoot... dehiscence mechanism Microsporogenesis - pollen wall structure <u>unit - I</u> Pollen germination (microgametogenesis) ... Pollination types and agencies - <u>unit - II</u> Structure of megasporangium ... its Biological imp. <u>unit III</u>
1 st May to 08 th May 2023	Embryogenesis in Dicot and Monocot - Dispersal mechanism in fruits and seeds - <u>unit IV</u>

Paper 4.2


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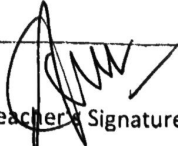
Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Akhilesh Kumar Sem...V.Ith

Class and Section: B.Sc. (I)

Subject: Botany

Month	Topics
17 th January to 31 st January 2023	<u>Basics of Enzymology - Discovery</u> <u>Mechanism of action</u> <u>u-I</u>
01 st February to 28 th February 2023	<u>Respiration - ATP</u> <u>PPP pathways</u> <u>u-II</u> <u>Lipid Metabolism - Storage & function of lipid</u> <u>β-oxidation</u> <u>u-III</u>
1 st March to 31 st October 2023	<u>Lipid Metabolism - Saturated & unsaturated fatty acids</u> <u>Mobilization of fatty acids</u> <u>u-III</u> <u>Nitrogen Metabolism - Biology of nitrogen</u> <u>Ammonium assimilation</u>
1 st April to 30 April 2023	<u>Genetic Engineering and Biotechnology</u> <u>Tools & Techniques</u> <u>differentiation and morphogenesis</u>
1 st May to 08 th May 2023	<u>Genetic Engineering and Biotechnology</u> <u>Biology of Agrobacterium</u> <u>marker genes</u>


Teacher's Signature

P-6.1