Lesson Plan

Name of the Assistant professor: Ms. Jyotsana Chahal

Class and Section: B.Sc. (Medical) 2nd year (4th semester)

Subject: Botany

Lesson Plan: 17 weeks of (Lesson Plan Format lesson: January 2018 to April

2018)

Week 1

Chapter 1: Flower as modified shoot

Assignments

Week 1, Monday, 1 January 2018

- 1.1.1. Angiosperms taxonomy
- 1.1.2 system of classification

Week 1, Tuesday, 2 January 2018

• 1.1.4. systematic: aims and fundamental components

Week 1, Wednesday, 3 January 2018

• 1.2.1 modern trends in plant taxonomy-chemotaxonomy

Week 1, Thursday, 4 January 2018

- 1.3.1. cytotaxonomy –numerical taxonomy
- Week 1, Saturday, 6 January 2018
- 1.4.1. binomial nomenclature-principles and rule

Week 2

Chapter 2: Modern trends in plant taxonomy

Week 2, Monday, 8 January 2018

- 2.1.1 biological keys
- 2.1.2. herbarium botanical garden, literature

Week 2, Tuesday, 9 January 2018

- 2.1.3. indented keys
- 2.1.4. bracketed keys

Week 2, Wednesday, 10 January 2018

• 2.2.1. phylogeny of angiosperms- evidences

Week 2, Thursday, 11 January 2018

• 2.2.2. possible ancestors of angiosperms

Week 2, Friday, 12 January 2018

• 3.1.1. flower terminology

Week 2, Saturday, 13 January 2018

• 3.1.1. flower terminology
Week 3
Chapter3: Inflorescence
Week 3, Monday, 15 January 2018
• 3.1.2. placentation-types
Week 3, Tuesday, 16 January 2018
• 3.1.3. inflorescence-types
Week 3, Wednesday, 17 January 2018
• 3.1.4. special types of inflorescence
Week 3, Thursday, 18 January 2018
 4.1.1. Bentham and Hooker system of classification
Week 3, Friday, 19 January 2018
• 4.1.2. Engler and Prante of classification
Week 3, Saturday, 20 January 2018
5.1.1 Description of an angiospermic plant
Week 4
Chapter 5: Important Families of Angiosperms
Week 4, Tuesday, 23 January 2018
• 5.1.2. Ranunculaceae
Week 4, Wednesday, 24 January 2018
• 5.1.3. Brassicaceae
Week 4, Thursday, 25 January 2018
• 5.1.4. Malvaceae
Week 4, Saturday, 27 January 2018
• 5.1.5. Rutaceae
Week 5
Chapter 6: description of families
Week 5, Monday, 29 January 2018
• 6.1.1. Fabaceae
Week 5, Tuesday, 30 January 2018
• 6.1.2. Apiaceae
Week 5, Thursday, 1 February 2018
• 6.1.3. Asteraceae
Week 5, Friday, 2 February 2018
6.1.4. Asclepiadaceae
Week 5, Saturday, 3 February 2018
6.1.5. Solanaceae
Week 6

Chapter 6: description of families
Week 6, Monday, 5 February 2018
6.1.6. Laminaceae
Week 6, Tuesday, 6 February 2018
6.1.7. Euphorbiaceae
Week 6, Wednesday, 7 February 2018
6.1.8. Liliaceae
Week 6, Thursday, 8 February 2018
6.1.6. Poaceaceae
Week 6, Friday, 9 February 2018
6.2.1. Economic importance of families
Week 7
Chapter 7: Type studies of families
Week 7, Monday, 12 February 2018
7.1.1 Type study of family Brassicaceae
Week 7, Wednesday, 14 February 2018
7.1.2 Type study of family Malvaceae
Week 7, Thursday, 15 February 2018
7.1.3 Type study of family Solanaceae
Week 7, Friday, 16 February 2018
 7.1.4 Type study of family fabaceae
Week 7, Saturday, 17 February 2018
 7.1.4 Type study of family fabaceae
Week 8
Chapter 7: Type studies of families
Week 8, Monday, 19 February 2018
 7.1.5 Type study of family Euphorbiaceae
Week 8, Tuesday, 20 February 2018
 7.1.6 Type study of family compositae
Week 8, Wednesday, 21 February 2018
7.1.7 Type study of family Liliaceae
Week 8, Thursday, 22 February 2018
7.1.8 Type study of family Apiaceae
Week 8, Friday, 23 February 2018
7.1.9 Type study of family Solanaceae
Week 8, Saturday, 24 February 2018
1.1.1. Floral formula and diagrams concept
Week 9
unit test of paper 1

Week 9, Monday, 26 February 2018 Unit test Week 9, Tuesday, 27 February 2018 Discussions of topics of test Week 10 Chapter 1 Flower Week 10, Monday, 05 march 2018 Phylogeny, modern taxonomy and chemotexonomy Week 10, Tuesday, 06 march 2018 Unit test paper I assignments Week 10, Wednesday, 07 march 2018 • 1.2.1.flower structure terminology Week 10, Thursday, 08 march 2018 • 1.3.1. inflorescence and its type • 1.3.2. classification Week 10, Friday, 09 march 2018 • 1.4.1. Bentham and Hooker system Week 10, Saturday, 10 march 2018 • 1.4.2. merits and demerits of Bentham and Hooker system Week 11 Chapter 2: Endosperm Week 11, Monday, 12 march 2018 • 2.1.1. Microsporophyll structure. • 2.2.1. Microsporogenesis Week 11, Tuesday, 13 march 2018 • 2.3.1. Structure of pollen grain Week 11, Wednesday, 14 march 2018 • 2.3.2. Male gametophytes Week 11, Thursday, 15 march 2018 • 2.4.1. pollination – self and cross pollination Week 11, Friday, 16 march 2018 • 2.4.2. Anemophily • 2.4.3. Hydrophily Week 11, Saturday, 17 march 2018 • 2.4.4. Entomophily • 2.4.5. Ornithophily Week 12 Chapter 3: Embryogenesis Week 12, Monday, 19 march 2018

 3.1.1. Megasporophyll, ovule structure and types
Week 12, Tuesday, 20 march 2018
• 3.2.2. Female gametophytes
Week 12, Wednesday, 21march 2018
• 3.2.3. types of embryo sac
Week 12, Thursday, 22 march 2018
• 3.5.4. fertilization
Week 12, Friday, 23 march 2018
3.2.5. Self Incompatibility
Week 12, Saturday, 24 march 2018
3.2.6. pollen-pistil interaction
3.2.7. Double fertilization
Week 13
Chapter 4: The Fruit
Week 13, Monday, 26 march 2018
 4.1.1. endosperm- formation and types
Week 13, Tuesday, 27 march 2018
 4.1.2. embryogenesis- Dicot embryo
Week 13, Wednesday, 28 march 2018
 4.1.3. embryogenesis- Monocot embryo
Week 13, Thursday, 29 march 2018
 4.2.1. Fruit: its classification
Week 13, Friday, 31 march 2018
4.2.1. Fruit: its classification
Week 14
Chapter 5: The Seed structure and germination
Week 14, Monday, 2 April 2018
 5.1.1. Seed- structure, formation and types
Week 14, Tuesday, 3 April 2018
• 5.1.2. Seed- germination
Week 14, Wednesday, 4 April 2018
 5.1.3. Dispersal of fruit and seed
Week 14, Thursday, 5 April 2018
• 5.2.1. Types of embryo sac
Week 14, Friday, 6 April 2018
 5.2.2. Endosperm- formation and types
Week 14, Saturday, 7 April 2018
• 5.2.3. types of ovules
Week 15

Chapter 5: Dispersal in fruits and seeds
Week 15, Monday, 9 April 2018
Unit test –II (Paper II)
Week 15, Tuesday, 10 April 2018
Question discussion in unit test
Week 15, Wednesday, 11 April 2018
6.1.1. flower a modified shoot
Week 15, Thursday, 12 April 2018
• 6.1.2. microsporangium
Week 15, Friday, 13 April 2018
• 6.1.3. pollen- pistil interaction
Week 16
Chapter 6: : Dispersal in fruits and seeds
Week 16, Monday, 16 April 2018
• 6.2.1. Megasporangium
Week 16, Tuesday, 17 April 2018
• 6.3.2. Female gametophye
Week 16, Wednesday, 18 April 2018
6.3.3. Double fertilisation
Week 16, Thursday, 19 April 2018
• 6.4.1. embryogenesis
Week 16, Friday, 20 April 2018
6.5.1. Dicot and monocot seed
Week 16, Saturday, 21 April 2018
• 6.6.1. Fruit Types
Week 17
Dicussions
Week 17, Monday, 23 April 2018
Discussions on Dispersal of fruit and seed
Week 17, Tuesday, 24 April 2018
Discussions on topic of paper I
Week 17, Wednesday, 25 April 2018
Discussions on topic of paper I
Week 17, Thursday, 26 April 2018
Discussions on topic of paper II
Week 17, Friday, 27 April 2018
Discussions on topic of paper II
Week 17, Saturday, 28 April 2018
Doubts related to complete syllabus