## **Lesson Plan**

Name of the Assistant professor: Dr. Brahmanand Dahiya

Class and Section: B.Sc.( Medical) 1<sup>st</sup> year (2<sup>nd</sup> semester)

Subject: Botany

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

2018)

## Week 1

Chapter 1: Bryophytes

## **Assignments**

Week 1, Monday, 1 January 2018

- 1.1.1. Bryophytes- general introduction
- 1.1.2. characteristics
- 1.1.3. Reproduction

Week 1, Tuesday, 2 January 2018

• 1.1.4. classification

Week 1, Wednesday, 3 January 2018

• 1.1.5. economics importance

Week 1, Thursday, 4 January 2018

- 1.2.1. Hepaticopsida- silent features
- Week 1, Saturday, 6 January 2018
- 1.2.1. Marchantia-characteristics
- 1.2.2. Morphology

## Week 2

Chapter 1: Bryophytes

Week 2, Monday, 8 January 2018

- 1.2.3. Marchantia- Asexual Reproduction
- 1.2.4. sexual Reproduction

Week 2, Tuesday, 9 January 2018

• 1.2.5. sporophyte

Week 2, Wednesday, 10January 2018

• 1.3.1. Anthocerotopsida- Introduction

Week 2, Thursday, 11 January 2018

• 1.3.2. Anthoceros- Morphology

Week 2, Friday, 12 January 2018

• 1.3.3. Reproduction

Week 2, Saturday, 13 January 2018  • 1.3.4. sporophyte and life cycle  Week 3 Chapter 1: Bryophytes  Week 3, Monday, 15 January 2018  • 1.4.1. Bryopsida-Introduction  Week 3, Tuesday, 16 January 2018  • 1.4.2. Funeria-characteristics  Week 3, Wednesday, 17 January 2018  • 1.4.3. Morphology  Week 3, Thursday, 18 January 2018  • 1.4.5. Sporophyte and life cycle  Week 3, Friday, 19 January 2018  • 2.1.5. Pteridophytes-introduction  Week 3, Saturday, 20 January 2018  • 2.1.1. Pteridophytes-introduction  Week 4 Chapter 2: Pteridophytes-introduction  Week 4, Tuesday, 23 January 2018  • 2.1.2. Pteridophytes -Introduction  • 2.1.3. characteristics  Week 4, Wednesday, 24 January 2018  • 2.1.4. Pteridophytes Classification  Week 4, Thursday, 25 January 2018  • 2.1.5. Pteridophytes life cycle  Week 4, Saturday, 27 January 2018  • 2.1.6. Pteridophytes stellar system  Week 5  Chapter 2: Pteridophytes stellar system  Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018  • 2.3.2. Selaginella – Introduction	
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Week 4, Wednesday, 24 January 2018  • 2.1.4. Pteridophytes Classification  Week 4, Thursday, 25 January 2018  • 2.1.5. Pteridophytes life cycle  Week 4, Saturday, 27 January 2018  • 2.1.6. Pteridophytes stellar system  Week 5  Chapter 2: Pteridophytes  Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	2.1.2. Pteridophytes –Introduction
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Week 4, Thursday, 25 January 2018  • 2.1.5. Pteridophytes life cycle  Week 4, Saturday, 27 January 2018  • 2.1.6. Pteridophytes stellar system  Week 5  Chapter 2: Pteridophytes  Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 4, Wednesday, 24 January 2018
<ul> <li>2.1.5. Pteridophytes life cycle</li> <li>Week 4, Saturday, 27 January 2018</li> <li>2.1.6. Pteridophytes stellar system</li> <li>Week 5</li> <li>Chapter 2: Pteridophytes</li> <li>Week 5, Monday, 29 January 2018</li> <li>2.2.1. Psilopsida- silent features</li> <li>Week 5, Tuesday, 30 January 2018</li> <li>2.2.2. Rhynia – introduction and morphology</li> <li>Week 5, Thursday, 1 February 2018</li> <li>2.3.1. Lycopsida – silent features</li> <li>Week 5, Friday, 2 February 2018</li> <li>2.3.2. Selaginella – Introduction</li> <li>Week 5, Saturday, 3 February 2018</li> </ul>	2.1.4. Pteridophytes Classification
Week 4, Saturday, 27 January 2018  • 2.1.6. Pteridophytes stellar system  Week 5 Chapter 2: Pteridophytes  Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 4, Thursday, 25 January 2018
<ul> <li>2.1.6. Pteridophytes stellar system</li> <li>Week 5</li> <li>Chapter 2: Pteridophytes</li> <li>Week 5, Monday, 29 January 2018 <ul> <li>2.2.1. Psilopsida- silent features</li> </ul> </li> <li>Week 5, Tuesday, 30 January 2018 <ul> <li>2.2.2. Rhynia – introduction and morphology</li> </ul> </li> <li>Week 5, Thursday, 1 February 2018 <ul> <li>2.3.1. Lycopsida – silent features</li> </ul> </li> <li>Week 5, Friday, 2 February 2018 <ul> <li>2.3.2. Selaginella – Introduction</li> </ul> </li> <li>Week 5, Saturday, 3 February 2018</li> </ul>	2.1.5. Pteridophytes life cycle
Week 5 Chapter 2: Pteridophytes  Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 4, Saturday, 27 January 2018
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Week 5, Monday, 29 January 2018  • 2.2.1. Psilopsida- silent features  Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 5
<ul> <li>2.2.1. Psilopsida- silent features</li> <li>Week 5, Tuesday, 30 January 2018</li> <li>2.2.2. Rhynia – introduction and morphology</li> <li>Week 5, Thursday, 1 February 2018</li> <li>2.3.1. Lycopsida – silent features</li> <li>Week 5, Friday, 2 February 2018</li> <li>2.3.2. Selaginella – Introduction</li> <li>Week 5, Saturday, 3 February 2018</li> </ul>	Chapter 2: Pteridophytes
Week 5, Tuesday, 30 January 2018  • 2.2.2. Rhynia – introduction and morphology  Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 5, Monday, 29 January 2018
<ul> <li>2.2.2. Rhynia – introduction and morphology</li> <li>Week 5, Thursday, 1 February 2018</li> <li>2.3.1. Lycopsida – silent features</li> <li>Week 5, Friday, 2 February 2018</li> <li>2.3.2. Selaginella – Introduction</li> <li>Week 5, Saturday, 3 February 2018</li> </ul>	2.2.1. Psilopsida- silent features
Week 5, Thursday, 1 February 2018  • 2.3.1. Lycopsida – silent features  Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 5, Tuesday, 30 January 2018
<ul> <li>2.3.1. Lycopsida – silent features</li> <li>Week 5, Friday, 2 February 2018</li> <li>2.3.2. Selaginella – Introduction</li> <li>Week 5, Saturday, 3 February 2018</li> </ul>	2.2.2. Rhynia – introduction and morphology
Week 5, Friday, 2 February 2018  • 2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	Week 5, Thursday, 1 February 2018
2.3.2. Selaginella – Introduction  Week 5, Saturday, 3 February 2018	2.3.1. Lycopsida – silent features
Week 5, Saturday, 3 February 2018	Week 5, Friday, 2 February 2018
	2.3.2. Selaginella – Introduction
2.3.2. Selaginella – morphology	Week 5, Saturday, 3 February 2018
	2.3.2. Selaginella – morphology

Week 6
Chapter 2: Pteridophytes
Week 6, Monday, 5 February 2018
2.3.3. Selaginella – Asexual reproduction
Week 6, Tuesday, 6 February 2018
• 2.3.4. Selaginella – sexual reproduction
Week 6, Wednesday, 7 February 2018
• 2.4.1. Sphenopsida – silent features
Week 6, Thursday, 8 February 2018
• 2.4.1. Equisetum – characteristics
2.4.2. morphology
Week 6, Friday, 9 February 2018
2.4.3. Equisetum – Anatomy
Week 7
Chapter 2: Pteridophytes
Week 7, Monday, 12 February 2018
2.4.4. Equisetum – reproduction by spores
Week 7, Wednesday, 14 February 2018
2.4.5. Equisetum – reproduction by gametophytes
Week 7, Thursday, 15 February 2018
2.4.6. Equisetum – life cycle
Week 7, Friday, 16 February 2018
2.5.1. Pteripsida – silent features
Week 7, Saturday, 17 February 2018
2.5.2. pteris – general characteristics
Week 8
Chapter 2: Pteridophytes
Week 8, Monday, 19 February 2018
2.5.3. pteris – external features
Week 8, Tuesday, 20 February 2018
2.5.4. pteris – internal features
Week 8, Wednesday, 21 February 2018
2.5.5. pteris – reproduction- sporophytic
Week 8, Thursday, 22 February 2018
2.5.6. pteris – reproduction- gametophytic
Week 8, Friday, 23 February 2018
2.5.7. pteris – life cycle
Week 8, Saturday, 24 February 2018
Discussion class

Week 9
unit test conduction
Week 9, Monday, 26 February 2018
Unit test of paper 1
Week 9, Tuesday, 27 February 2018
Presentation on Assignment of paper 1
Week 10
Chapter 1: DNA as genetic material
Week 10, Monday, 05 march 2018
1.1.1. DNA as genetic material: general introduction
Week 10, Tuesday, 06 march 2018
1.1.2. Identification of DNA as genetic material
Week 10, Wednesday, 07 march 2018
1.1.3. Molecular structure of DNA
Week 10, Thursday, 08 march 2018
1.1.4. Double helix structure of DNA
• 1.1.5. Properties of DNA
• 1.1.6. Types of DNA
Week 10, Friday, 09 march 2018
• 1.2.1. DNA-Protein Interaction
Week 10, Saturday, 10 march 2018
2.1.1.Replication of DNA-Introduction
Week 11
Chapter 2: Replication of DNA
Week 11, Monday, 12 march 2018
2.1.2.Replication of DNA-mechanism
Week 11, Tuesday, 13 march 2018
2.1.3. Genetic code
Week 11, Wednesday, 14 march 2018
3.1.1. Genetic Inheritance: Introduction
Week 11, Thursday, 15 march 2018
3.1.2. Genetic Inheritance: Mendel's experiments
Week 11, Friday, 16 march 2018
3.1.3. Genetic Inheritance: Mendel's law of inheritance
Week 11, Saturday, 17 march 2018
3.1.4. Genetic Inheritance: importance of mendelism
Week 12
Chapter 4: Linkage
Week 12, Monday, 19 march 2018
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• 4.1.1. Linkage: Introduction
Week 12, Tuesday, 20 march 2018
<ul> <li>4.1.2. Linkage: chromosomal theory of linkage</li> </ul>
Week 12, Wednesday, 21march 2018
<ul> <li>4.1.3. Linkage :linkage groups and linkage maps</li> </ul>
Week 12, Thursday, 22 march 2018
<ul> <li>5.1.1 Gene interactions: introduction</li> </ul>
• 5.1.2. Polygenes
Week 12, Friday, 23 march 2018
<ul> <li>5.1.3. Inter allelic interactions</li> </ul>
Week 12, Saturday, 24 march 2018
• 5.1.4. Codominance
Week 13
Chapter 5: Gene interactions
Week 13, Monday, 26 march 2018
• 5.1.5. Lethal genes
Week 13, Tuesday, 27 march 2018
<ul> <li>5.1.6.Non- allelic interactions</li> </ul>
Week 13, Wednesday, 28 march 2018
• 5.1.5. Epistasis
Week 13, Thursday, 29 march 2018
• 5.1.5. duplicate genes
Week 13, Friday, 31 march 2018
<ul> <li>6.1.1. Genetic variations: introduction</li> </ul>
Week 14
Chapter 6: Genetic variation
Week 14, Monday, 2 April 2018
• 6.1.1. mutations
Week 14, Tuesday, 3 April 2018
6.1.2. Molecular basis of mutations
Week 14, Wednesday, 4 April 2018
6.1.3. mutagens
Week 14, Thursday, 5 April 2018
6.2.1. Transposable elements
Week 14, Friday, 6 April 2018
6.3.1. DNA repair systems
Week 14, Saturday, 7 April 2018
<ul> <li>7.1.1. RNA and Ribosomes: introduction</li> </ul>
Week 15

Charatan 7, DNA and Dibasansa
Chapter 7: RNA and Ribosomes
Week 15, Monday, 9 April 2018
7.1.1. RNA and Ribosomes: Types of RNA
Week 15, Tuesday, 10 April 2018
7.2.1. RNA and Ribosomes: Ribosomes
Week 15, Wednesday, 11 April 2018
8.1.1. Gene Expression: flow of genetic material
Week 15, Thursday, 12 April 2018
8.2.1. Gene Expression: Transcription
Week 15, Friday, 13 April 2018
8.2.2. post Transcription modification
Week 16
Chapter 8: Gene Expression
Week 16, Monday, 16 April 2018
8.3.1. Translation
Week 16, Tuesday, 17 April 2018
8.3.1. Post Translation Modification
Week 16, Wednesday, 18 April 2018
<ul> <li>8.4.1. Difference between Transcription and Translation</li> </ul>
Week 16, Thursday, 19 April 2018
<ul> <li>9.1.1. regulation of gene expression: Introduction</li> </ul>
Week 16, Friday, 20 April 2018
<ul> <li>9.1.2. regulation of gene expression: Prokaryotes</li> </ul>
Week 16, Saturday, 21 April 2018
<ul> <li>9.1.3. regulation of gene expression: Eukaryotes</li> </ul>
Week 17
Chapter 10: Proteins
Week 17, Monday, 23 April 2018
10.1.1. proteins: structure
Week 17, Tuesday, 24 April 2018
• 10.1.2. proteins: classification
Week 17, Wednesday, 25 April 2018
11.1.1. Extra nuclear genome: introduction
Week 17, Thursday, 26 April 2018
• 11.2.1. chloroplast DNA
Week 17, Friday, 27 April 2018
11.3.1. mitochondrial DNA
Week 17, Saturday, 28 April 2018
• 11.3.1. Plasmid

Week 18

Chapter 10: assignments and unit test