LESSON PLAN

Ms NISHA YADAV assistant professor

BSc medical pass course

BOTANY 4TH SEMESTER

BIOLOGY &DIVERSITY OF SEED PLANT II

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| Week 1  Unit 1 Taxonomy and systematics |
| Assignments |
| Week 1 ,day 1,1/1/18   * 1.1.1 introduction of taxonomy |
| Week 1 ,day 2,2/1/18   * 1.1.2 different components of taxonomy |
| Week 1 ,day 3,3/1/18   * 1.1.3 identification ,classification. |
| Week 1 ,day 4,4/1/18   * 1.1.4 description and nomenclature in taxonomy |
| Week 1 ,day 5,5/1/18   * 1.1.5 phylogeny of taxonomy |
| Week 1 ,day 6,6/1/18   * 1.2.1 roles of chemotaxonomy |
| Week 2  Unit 1 cytotaxonomy |
| Assignments |
| Week 2, day 1, 8/1/18   * 1.3.1 taximetrics in relation to taxonomy |
| Week 2, day 2, 9/1/18   * 1.5.1 botanical naming |
| Week 2, day 3, 10/1/18   * 1.1.6 nomenclature of plant species * 1.6.1rules of nomenclature |
| Week 2, day 4, 11/1/18   * 1.6.2 principles of nomenclature * 1.6.3 priorties of nomenclature |
| Week 2, day 5, 12/1/18   * 1.6.4 type concept for taxonomy |
| Week 2, day 6, 13/1/18   * 1.7.1 taxonomic ranks,flower and types of inflorescence |
| Week 3,  Unit 2 angiosperms |
| Assignments |
| Week 3, day 1,15/1/18   * 2.1.1 general characters of angiosperms * 2.1.2 classification of bentham hooker classification |
| Week 3, day 2,16/1/18   * 2.2.1 diversity of flowering plants * 2.2.2 diagnostic features of different families |
| Week 3, day 3,17/1/18   * 2.3.1 malvaceae * 2.3.2 euphorbiaceae |
| Week 3, day 4,18/1/18   * 2.3.3 rutaceae * 2.3.4 leguminosae |
| Week 3, day 5,19/1/18   * 2.3.5 apiaceae * 2.3.6 asclepiadaceae |
| Week 3, day 6,20/1/18   * 2.4.1 lamiaceae |
| Week 4,  Unit 2 solanaceae |
| Assignments |
| Week 4,day 1, 22/1/18   * 2.4.2.asteraceae |
| Week 4,day 2, 23/1/18   * 2.4.3 liliaceae |
| Week 4,day 3, 24/1/18   * 2.5.1poaceae |
| Week 4,day 4, 25/1/18   * 2.5.2 infloroscence |
| Week 4,day 5, 26/1/18   * Republic day |
| Week 4,day 6, 27/1/18   * 2.6.1 economic importance of angiosoerms |
| Week 5  Unit 2 economic importance of ranunculaceae and its salient features |
| Assignments |
| Week 5, day1 , 29/1/18   * 2.6.2 economic importance and salient features of brassicaceae |
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| Week 5, day3 , 31/1/18   * 2.8.1 economic importance of malvaceae |
| Week 5, day4 , 1/2/18   * 2.8.2 economic importance of euphorbiaceae |
| Week 5, day5 , 2/2/18   * 2.8.3 economic importance of rutaceae |
| Week 5, day6 , 3/2/18   * Economic importance of leguminosae |
| Week 6  Unit 3 economic importance of apiaceae |
| Assignments |
| Week 6, day 1, 5/2/18   * 3.1.1 economic importance of asclepiadaceae * 3.1.2 economic importance of lamiaceae |
| Week 6, day 2, 6/2/18   * 3.1.3 economic importance of solanaceae |
| Week 6, day 3, 7/2/18   * 3.2.1 economic importance of asteraceae * 3.2.2 economic importance of liliaceae |
| Week 6, day 4, 8/2/18   * 3.2.3 economic importance of poaceae |
| Week 6, day 5, 9/2/18   * 3.3.1 rivision of angiospermic plants * 3.3.2 rivision ofdiversity of angiospermic plants |
| Week 6, day 6, 10/2/18   * 3.4.1 rivision of taxonomy of pants |
| Week 7  Unit3 |
| Assignments |
| Week 7 ,day 1,12/2/18   * 3.5.1 different taxonomic ranks * 3.5.2 species |
| Week 7 ,day 2,13/2/18   * 3.6.1 genus * 3.6.2 family |
| Week 7 ,day 3,14/2/18   * 3.6.3 order |
| Week 7 ,day 4,15/2/18   * 3.6.4 class * 3.6.5 series |
| Week 7 ,day 5,16/2/18   * 3.6.6 sub class |
| Week 7 ,day 6,17/2/18   * 3.6.7 division |
| Week 8  Unit 4 |
| Week 8, day 1, 19/2/18   * 4.1.1 floral diagrams of angiosoerms |
| Week 8, day 2, 20/2/18   * 4.1.2 bracts |
| Week 8, day 3, 21/2/18   * 4.1.3 bracteolate |
| Week 8, day 4, 22/2/18   * 4.1.4 sepals |
| Week 8, day 5, 23/2/18   * 4.1.5 petals |
| Week 8, day 6, 24/2/18   * 4.1.6 carpels |
| Week 9  Unit 4 gynoecium |
| Week 9,day 1,26/2/18   * 4.2.1 androgonium |
| Week 9,day 2,27/2/18   * 4.2.2 presence of ovary in flowers |
| Week 9,day 3,28/2/18   * 4.2.3 superior and inferior ovary |
| Week 9,day 4,1/3/18   * 4.2.4 fusion of different floral parts |
| Week 9,day 5,2/3/18   * 4.2.5 floral diagrams |
| Week 9,day 6,3/3/18   * 4.2.6 floral formula |
| Week 10  Sessional 1 for ppr 1 5/3/18 to 10/3/18 |
| Week 11  **Ppr 2 , plant embryology(4.2)**  **Unit 1** |
| Assignments |
| Week 11,day1, 12/3/18   * 1.1.1 |
| Week 11,day2, 13/3/18   * 1.2.1 flower-a modified shoot * 1.2.2 different parts of flower(sepls petls carpels ovary) |
| Week 11,day3, 14/3/18   * 1.2.3 functions of different floral parts |
| Week 11,day4, 15/3/18   * 1.2.4 microsporangium |
| Week 11,day5, 16/3/18   * 1.2.6 its wall |
| Week 11,day6, 17/3/18   * 1.2.7 mechanism of dehiscence |
| Week 12 |
| Assignments |
| Week 12,day 1, 19/3/18   * 1.2.1 microsporogenesis * 1.2.2 pollen grains |
| Week 12,day 2, 21/3/18   * 1.2.3 its structure * 2.2.4 male gametophyte |
| Week 12,day 3, 22/3/18   * 2.2.5 endosperm types and biological importance * 2.2.6 ovule structure |
| Week 12,day 4, 23/3/18   * 2..3.1megasporogenesis * 2.3.2 megagametogenesis |
| Week 12,day 5, 24/3/18   * 2.3.3 female gametophyte * 2.3.4 mono bi tetrasporic gametophyte |
| Week 12,day6,, 25/3/18   * 2.3.5 self incompatibility * 2.3.6 double fertilisation |
| Week 13 |
| Assignments |
| Week 13, day1,27/3/18   * 2.3.7 embryyogenesis * 2.3.8 polyembryony |
| Week 13, day2,28/3/18   * 3.1.1 difference between polyembryony and embryogenesis |
| Week 13, day3,29/3/18   * 3.1.2 embryogenesis(str of embryo and how it occurs) |
| Week 13, day4,30/3/18   * 3.1.3 embryogenesis in dicot |
| Week 13, day5,31/3/18   * 3.1.4 different steps of embryogenesis in dicot |
| Week 13, day6,1/4/18   * 3.2.1 embryogenesis in monocot |
| Week 14  Unit 3 |
| Assignment |
| Week 14, day1,3/4/18   * 3.2.2 different steps of embryogenesis in monocots |
| Week 14, day2,4/4/18   * 3.2.3 difference in monocot and dicot embryogenesis |
| Week 14, day3,5/4/18   * 3.2.4structure of seed |
| Week 14, day4,6/4/18   * 3.2.5 sructure of monocot seed |
| Week 14, day5,7/4/18   * 3.2.6 structure of dicot seed |
| Week 14, day6,8/4/18   * 3.2.7 difference between dicot and monocot seed |
| Week 15  Unit 4 |
| Assignments |
| Week 15, day1,10/4/18   * 4.1.1 fruit types |
| Week 15, day2,11/4/18   * 4.1.2 dispersal mechanism |
| Week 15, day3,12/4/18   * 4.2.1 dispersal mechanism in fruits |
| Week 15, day4,13/4/18   * 4.3.1 dispersal mechanism in seeds |
| Week 15, day5,14/4/18   * 4. 4.1 different modes of dehisce seeds |
| Week 15, day6,15/4/18   * 4. 4.2 different modes of dehisce fruits |
| 16/4/18 to 18/4/18  Revision |
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BOTANY 2nd SEMESTER

GENETICS (2.1) PPR 1

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| Week 1  Unit 1 |
| Assignments |
| Week 1 ,day 1, 1/1/18   * 1.1.1 general characters of bryophyte |
| Week 1 ,day 2, 2/1/18   * 1.1.2 general life history patterns |
| Week 1 ,day 5, 5/1/18   * 1.2.1 reproduction in bryophytes in general |
| Week 2  Unit 1: |
| Assignments |
| Week 2 ,day 1, 8/1/18   * 1.2.2 classification |
| Week 2 ,day 2, 9/1/18   * 1.2.3 different classifications of bryophytes |
| Week 2 ,day 5, 12/1/18   * 1.2.4 classification upto class of bryophytes |
| Week 3  Unit 1 alternation of generations |
| Assignments |
| Week 3,,day 1, 15/1/18   * 1.3.1 gametophyte and sporophytic plant body of bryophytes |
| Week 3 ,day 2, 16/1/18   * 1.3.2 haplontic life history pattern |
| Week 3,,day 5, 19/1/18   * 1.4.1 diplohapontic life history pattern of life cycle |
| Week 4  Unit 1 |
| Assignments |
| Week 4 ,day 1,22/1/18   * 1.4.2 reproduction ;asexual |
| Week 4 ,day 2,23/1/18   * 1.5.1 sexual reproduction |
| Week 4 ,day 5,26/1/18   * 1.5.2 development of gametophytic plant body |
| Week 5 ,  Unit 2:general characters of hepaticopsida |
| Assignments |
| Week 5,day1,29/1/18   * 2.1.1 marchantia;generalntia characters,distribution,existing species |
| Week 5,day2,30/1/18   * Republic day |
| Week 5,day5,2/2/18   * 2.1.2reproduction (sexual) |
| Week 6  Unit 2:gametophytic plant body |
| Assignments |
| Week 6 ,day 1,5/2/18   * 2.2.1 foot seta neck differentiation |
| Week 6,,day 6/2/18   * 2.2.2 capsule of marchantia |
| Week 6 ,day 5,9/2/18   * 2.2.3gametophyte life cycle |
| Week 7  Unit 2: |
| Assignments |
| Week 7 ,day 1,12/2/18   * 2.3.1 anthoceratopsida general characters |
| Week 7 ,day 2,13/2/18   * 2.3.2 anthoceros |
| Week 7 ,day 5,16/2/18   * 2.3.4 anthoceros plant body |
| Week 8  Unit 2: |
| Assignments |
| Week 8 ,day 1,19/2/18   * 2.4.1 external characters * 2.4.2 morphology |
| Week 8 ,day 2, 20/2/18   * 2.4.3 anatomy |
| Week 8 ,day 5,23/2/18   * 2.4.4 foot seta neck  |  | | --- | |  | |
| Week 9  Unit 3: |
| Assignments |
| Week 9,day1, 26/2/18   * 3.1.1 life history patterns of anthoceros |
| Week 9,day2, 27/2/18   * 3.1.2 reprpduction |
| Week 9,day5, 2/3/18   * 3.1.3 gametophyte |
| Week 10  Unit 3 |
| Assignments |
| Week 10, day 1, 5/3/18   * 3.2.1 general characters of bryopsida * 3.2.2 funaria general characters |
| Week 10, day 2, 6/3/18   * 3.2.3 foot seta neck differentiation * 3.2.4 capsule structure |
| Week 10, day 5, 9/3/18   * 3.2.5 gametophyte |
| Week 11  Unit 3:life cycle |
| Assignments |
| Week 11, day 1, 12/3/18   * 3.3.1 reproduction in funaria |
| Week 11, day 2, 13/3/18   * 3.4.1general characters of pteridophytes |
| Week 11, day 5, 15/3/18   * 3.4.2 rhynia |
| Week 12  Unit 4: |
| Assignments |
| Week 12 ,day1,19/3/18   * 4.1.1 selaginella |
| Week 12 ,day2,20/3/18   * 4.2.1 equisetum * 4.2.2 plant body |
| Week 12 ,day5,23/3/18   * 4.3.1 internal characters |
| Week 13  Unit 4:external morohology |
| Assignment |
| Week 13,day 1, 26/3/18   * 4.4.1reproduction |
| Week 13,day 2, 27/3/18   * 4.4.2 sexual |
| Week 13,day 5,30 /3/18   * 4.5.1 life history |
| Week 14  Unit 4 |
| Assignments |
| Week 14,day 1, 2/4/18   * 4.5.2 general characters of pteropsida |
| Week 14,day 2, 3/4/18   * 4.5.3 general characters of pteris |
| Week 14,day 5, 6/4/18   * 4.5.4 plant body |
| Week 15  Unit 4: |
| Assignments |
| Week 15,day 1,9/4/18   * 4.6.1external morphology |
| Week 15,day 1,10/4/18   * 4.7.1 internal anatomy |
| Week 15,day 1,13/4/18   * 4.7.2 life cycle |
| Week 16 revision |
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