

**LESSON PLAN**  
**BIO-III.E-1: BASICS OF PLANT AND ANIMAL SCIENCES**

Lecture No	Unit	Sub Unit	Mandatory Reading	Optional Reading	Link to Lecture Notes/Videos
1	Introduction	Introduction to the plant and animal kingdom	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 3 - 7	-	<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
2		introduction to classification system			
3	Plant Kingdom	Study of the general characteristics of Algae	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 111 - 121, 133 - 138.		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
4		Study of the general characteristics of Fungi	Wiley, J., Sherwood, L., and Woolverton, C. (2008). Prescott, Harley, Klein's Microbiology (Seventh ed.). New york: Mc-graw Hill. Pg no: 637 - 639	-	
5		Study of the general characteristics of Lichens	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 217 - 220		
6		Study of the general characteristics of Bryophytes	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg. no: 228 - 232.	-	

7		Study of the general characteristics of Pteridophytes	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 252 - 259.		
8		Study of the general characteristics of Gymnosperms	Verma, V.(2010). Botany. (Ane's Students Edition). New Delhi:Ane Books Pvt. Ltd. Pg no: 269 - 279.		
9	Morphology and Anatomy in Angiosperms	Vegetative Morphology: Roots	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. 45 -52		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
10		Vegetative Morphology: Stem	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi, Pg no: 55 - 60	-	
11		Vegetative Morphology: Leaf	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 394 - 404.		
12		Reproductive Morphology: Flower	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 394 - 404.		
13		Reproductive Morphology : Inflorescence and Fruit	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 405 - 414.		

14		Comparative Anatomy of roots, stem and leaves in dicots	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 490 - 500.		
15		Secondary Growth in Angiosperms	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 501 - 509		
16	Economic Importance	Economic importance of each phylum of the Plant Kingdom	Verma, V.(2010). Botany. Ane's Students Edition. Ane Books Pvt. Ltd. New Delhi. Pg no: 631- 637.		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
17	Tutorials				
18	CA 1				
19	Animal Kingdom – Chordates and: Salient features of Chordates	Study of Habitat and General characteristics of: Protozoa	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 224 – 225.		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
20		Disease causing Protozoa			

21		Study of Habitat and General characteristics of: Porifera			
22		Circulation in Porifera	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New-Delhi. Pg no: 305 - 310.		
23		Study of Habitat and General characteristics of: Cnidaria			
24		Corals and Coral reefs	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New-Delhi. Pg no:415 – 420.		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
25		Study of Habitat and General characteristics of: Platyhelminthes			
26		Disease causing Platyhelminthes	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no:514 – 516		

27		Study of Habitat and General characteristics of: Aschelminthes	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 554 – 555		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
28		Disease causing nematodes (Aschelminthes),	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 527, 566.		
29		Excretion in Aschelminthes			
30		Study of Habitat and General characteristics of: Annelida,	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 789 – 790.		
31		Excretion in Annelida			

32		Study of Habitat and General characteristics of: Arthropoda	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 970 - 971.		
33		Metamorphosis in insects	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S. Chand & Company Pvt. Ltd. New- Delhi. Pg no: 1013 – 1015.		
34		Economic importance (Arthropoda)			
35		FEEDBACK ON CA 1			
36			Study of Habitat and General characteristics of: Mollusca	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi. Pg no: 693 - 694.	
37	Study of Habitat and General characteristics of: Echinodermata				

38		Circulation in Echinodermata	Jordon, E.L., Verma, P.S. (2009). Invertebrate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi. Pg no: 1056 – 1057.		
39	Animal Kingdom – Chordates and Salient features of Chordates	Study of Habitat and General characteristics of: Superclass Pisces, Economic importance of Pisces.	Jordon, E.L., Verma, P.S. (2009). Chordate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi. Pg no: 23 – 30		<a href="https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all">https://classroom.google.com/u/0/w/NDA4NjE4MzA4MjFa/t/all</a>
40		Study of Habitat and General characteristics of: Class Amphibia? Parental care in Amphibians	Jordon, E.L., Verma, P.S. (2009). Chordate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi. Pg no: 60 – 65.		
41		Study of Habitat and General characteristics of: Class Reptilia, Venemous and Non-venemous Reptiles	Jordon, E.L., Verma, P.S. (2009). Chordate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi. Pg no: 90 - 95.		
42		Study of Habitat and General characteristics of: Class Aves Migration in Birds	Jordon, E.L., Verma, P.S. (2009). Chordate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi.Pg no: 98 - 100.		
43		study of Habitat and General characteristics of: Class Mammalia, Dentition in mammals	Jordon, E.L., Verma, P.S. (2009). Chordate Zoology, S.Chand & Company Pvt. Ltd. New- Delhi.Pg no: 120 -		

			122.		
44	CA II				
45	SEE paper discussion, Course feedback				