



Indraprastha College for Women

University of Delhi

Course Name:	B. A(H)/B.Sc.(H)/BAP
Paper Title:	SEC-Viewing and Capturing Diversity in Nature
Unique Paper Code:	2186000005
Semester:	III
Faculty(s):	Arvind Kumar Negi
Year:	2nd

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
1st Aug - 10th Aug	1	Introduction to Digital Photography	Study the parts of a digital camera
12th Aug - 17th Aug	1	Understanding Camera Technology	Principle and working of digital camera/smartphone camera
19th Aug - 24th Aug	1	Microscopic Photography	Study of plant forms through microscopic lens (Single-celled, colonial forms, filamentous forms, multicellular and complex forms)
26th Aug - 7th Sep	1	Photography Techniques	Techniques of capturing shots (using light and lenses effectively, macro and micro photography, wide angle and close-ups)
9th Sep - 14th Sep	1	Plant Adaptations Photography	Study of plant adaptations through photographs (Aquatic and desert plants)
16th Sep - 21st Sep	2	Ecological Photography	Capture and understand the Ecological Interactions
23rd Sep - 28th Sep	2	Identification through Photography	Identification of different plant life forms through online available tools/search engines
30th Sep - 12th Oct	2	Outdoor Photography	Outdoor/Campus Photography: Plants, Environment, Landscapes, and Cityscape
14th Oct - 19th Oct	2	Microscopic Exploration	Foldscope: The domestic microscope. Use the Foldscope to explore microscopic organisms in pond water
21st Oct - 26th Oct	3	Project Work	Project Work: To make a portfolio of diverse landscaping

			patterns/selected themes through outdoor visits
28th Oct - 2nd Nov		Mid-Semester Break	
4th Nov - 9th Nov	3	Review and Feedback	Practical/Exercises/Doubt Clearing
11th Nov - 23rd Nov 16th Nov	3	Review and Feedback	Practical/Exercises/Doubt Clearing
25th Nov - 27th Nov	3	Final Review and Assessment	Final review of project work and practical exercises
28th Nov			

Unit	TOPICS
1	To study the parts of a digital camera.
2	To study the principle and working of digital camera/ smartphone camera.
3	Working and handling of light microscopes (Dissection and Compound).
4	Study of plant forms through microscopic lens
5	To study techniques of capturing shots (using light and lenses effectively, macro and micro photography, wide angle and close-ups).
6	Study of plant adaptations through photographs (Aquatic and desert plants).
7	To capture and understand the Ecological Interactions.
8	Identification of different plant life forms through online available tools/ search engines
9	Outdoor/ Campus Photography: Plants, Environment, Landscapes and Cityscape.
10	Foldscope: The domestic microscope. Use the Foldscope to explore microscopic organisms in pond water.
11	Project Work: To make a portfolio of diverse landscaping patterns/ selected themes through outdoor visits.

S. No.	Name of Authors/Books/Publishers
1.	Ang., T. (2008). Fundamentals of modern Photography. London, Mitchell.
2.	Sharma P.D. (2008) Ecology and Environment. Rastogi Publishers.

