

No.: UHF/EVS/3-63/2024/-2356
Department of Environmental Science -cum-Work Centre IGNOU
Dr. YS Parmar University of Horticulture & Forestry,
Nauni-173 230, Distt. Solan (H.P.)

Proposed schedule for conducting practical Examination for the course MEVL 011, Lab course-1, Environmental Science w.e.f 18th March, 2024 to 31st March 2024

(First Batch)

Venue: Department of Environmental Science, Dr YSP UHF, Nauni, Solan

Day	Date	Practical exercise	Theory	Hand on Exercises/ Lab Practical
1	18/03/2024	✓ Determination of minimum size of the quadrat by 'species-area-curve' method	Morning Session (9:30 am -1:30 pm)	Evening Session (2:00 -6:00 pm)
2	19/03/2024	✓ Determination of frequency of species by line transect method and point frame method ✓ Determination of Relative Density, Frequency and Abundance of different species present in community and calculation of IVI		
3	20/03/2024	✓ Measures of central tendency, dispersion, skewness and kurtosis ✓ Correlation and regression analysis; analysis of variance		
4	21/03/2024	✓ Determination of standing crop and biomass in Terrestrial ecosystem		
5	22/03/2024	✓ Study on the abiotic and biotic components of an aquatic ecosystem		
6	23/03/2024	✓ Estimation of net primary productivity by harvest method in grassland ecosystem		
7	24/03/2024	✓ Estimation of net primary productivity using light and dark bottle method in aquatic ecosystem		
8	25/03/2024	✓ Estimation of biodiversity indices ✓ Weather monitoring and data analysis		
9	26/03/2024	✓ Study on soil profile and physical characteristics of soil		
10	27/03/2024	✓ Determination of soil organic carbon		
11	28/03/2024	✓ Determination of available Nitrogen in soil		
12	29/03/2024	✓ Preparation of climatic maps and diagram ✓ Identification of Igneous, Sedimentary and Metamorphic rocks		
13	30/03/2024	✓ Determination of soil moisture content ✓ Determination of soil pH and electrical conductivity		
14	31/03/2024	✓ Preparation of station based wind rose ✓ Arial photographs interpretations		

Proposed schedule for conducting practical Examination for the course MEVL 012, Lab course-2, Environmental Science w.e.f 1st April, 2024 to 14th April, 2024

(First Batch)

Venue: Department of Environmental Science, Dr YSP UHF, Nauni, Solan

Day	Date	Practical Exercise	Theory	Hand on Exercises/ Lab Practical
1	01/04/2024	✓ Determination of Electrical Conductance of a Water Sample	Morning Session (9:30 am -1:30 pm)	Evening Session (2:00 -6:00 pm)
2	02/04/2024	✓ Determination of pH of a Water Sample		
3	03/04/2024	✓ Determination of Turbidity in Water		
4	04/04/2024	✓ Determination of Total Solids and Total Dissolved Solids in Water ✓ Determination of Hardness in Water Sample		
5	05/04/2024	✓ Determination of Biological Oxygen Demand in Water		
6	06/04/2024	✓ Determination of Dissolved Oxygen in Water		
7	07/04/2024	✓ Determination of Chemical Oxygen Demand in Water		
8	08/04/2024	✓ Determination of Chloride in Water Samples ✓ Determination of Residual Chlorine in Water		
9	09/04/2024	✓ Determination of Sulphates in Water		
10	10/04/2024	✓ Determination of Phosphate in Water		
11	11/04/2024	✓ Determination of Nitrate Nitrogen in water sample		
12	12/04/2024	✓ Determination of Nitrite Nitrogen in water sample		
13	13/04/2024	✓ Determination of Fluoride in Water		
14	14/04/2024	✓ Determination of Oil and Grease in Water		

Proposed schedule for conducting practical Examination for the course MEVL 013, Lab course-3, Environmental Science w.e.f 15th April, 2024 to 28th April, 2024
(First Batch)

Venue: Department of Environmental Science, Dr YSP UHF, Nauni, Solan

Day	Date	Practical exercise	Theory	Hand on Exercises/ Lab Practical
1	15/04/2024	<ul style="list-style-type: none"> ✓ Determination of Suspended Particulate Matter (SPM) in Ambient Air Using High Air Sampler (HVS) ✓ Isolation and Enumeration of Air Borne Microorganisms by All Glass Impinger Technique 	<p style="text-align: center;">Morning Session (9:30 am -1:30 pm)</p>	<p style="text-align: center;">Evening Session (2:00 -6:00 pm)</p>
2	16/04/2024	<ul style="list-style-type: none"> ✓ Determination of Sodium and Potassium in Water Using Flame Photometer 		
3	17/04/2024	<ul style="list-style-type: none"> ✓ Determination of Trace Metals in Environmental Samples using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) 		
4	18/04/2024	<ul style="list-style-type: none"> ✓ Composting of Biodegradable Waste and determination of compost quality ✓ Determination of Biogas Production from Organic Waste by Liquid Displacement Method 		
5	19/04/2024	<ul style="list-style-type: none"> ✓ Determination of Pesticides in Environmental Samples Using Gas Chromatography ✓ Separation of Amino Acids by Thin Liquid Chromatography 		
6	20/04/2024	<ul style="list-style-type: none"> ✓ Determination of Effect of Industrial Effluents on Seed Germination and Seedling Growth of Rice and Wheat ✓ Determination of Alcoholic fermentation from Grape Juice by Saccharomyces cerevisiae 		
7	21/04/2024	<ul style="list-style-type: none"> ✓ Sterilization, Media Preparation and Isolation of Pure Culture ✓ Determination of Gram Staining of Bacterial Sample 		
8	22/04/2024	<ul style="list-style-type: none"> ✓ Isolation and Characterization of Bacteria from Soil Samples ✓ Isolation and Characterization of Actinomycetes from Soil Samples 		
9	23/04/2024	<ul style="list-style-type: none"> ✓ Isolation of Pure Culture by Streak Plate Method, Pour Plate Method and Spread Plate Method 		
10	24/04/2024	<ul style="list-style-type: none"> ✓ Isolation and Characterization of Fungi from Soil Samples 		
11	25/04/2024	<ul style="list-style-type: none"> ✓ Determination of Metabolic Activities of Bacteria through Biochemical Tests 		
12	26/04/2024	<ul style="list-style-type: none"> ✓ Determination of Biological Activity of Soil by Dehydrogenase Assay 		
13	27/04/2024	<ul style="list-style-type: none"> ✓ Isolation of Bio-Surfactant Producing Bacteria from Environmental Samples 		
14	28/04/2024	<ul style="list-style-type: none"> ✓ Detection of Coliform in Water Samples by Membrane Filter Technique 		