P. G DEPARTMENT OF ZOOLOGY (SF) DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT

OF

ADD-ON COURSE

Biological Preservation Techniques

Conducted for I MSc Zoology

Academic Year 2021-22

Title- BIOLOGICAL PRESERVATION TECHNIQUES

Academic year : 2021-2022

Date(s) on which program conducted: 22/01/2022, 25/01/2022, 26/01/2022,

27/01/2022,28/01/2022, 30/01/2022, 31/01/2022

Collaborating agency inside or outside the institute :Nil

Beneficiaries : I MSc Zoology

Number of teachers coordinated the program :3

Number of students participated in the program :8

A brief report on program

• P G Department of Zoology offers add on course on 'Biological preservation techniques (DMCK/SFZOO/AD37/2021) for our I PG students. The details of the course and syllabus are attached. This course mainly introduce tools and techniques available for studying biochemical and biophysical nature of life. This course help learners to use the tools and techniques for project work /research in biology. Eight students participated in the program. Ms. Aparna S., Ms. Ambily K Chandran and Ms. Athira Raveendran has taken the class.

Course Objectives

- 1. To introduce tools and techniques available for studying biochemical and biophysical nature of life
- 2. To equip the learner to use the tools and techniques for project work /research in biology

Syllabus

Module 1

Specimen preparation for light microscopy – wet mount preparation, smears, squashes and sections. Cytochemical and histological methods – microtome techniques, fixation, staining, cytochemistry of nucleic acids, detection of carbohydrates, proteins and lipids.

PRACTICAL

- Preparation of temporary and permanent slides. (Demonstration only)
- Preparation of Microtome section & Samp; spreading. (Demonstration only)
- Squash preparation of onion root tip. (Demonstration only)
- Collection and preservation of invertebrates. (Demonstration only)

Module 2

Taxidermy, Fixation, preparation of temporary and permanent slides, whole mounts. Collection and preservation of vertebrates. Preparation of specimens: Preparation of museum specimens, articulated skeletons, Alizarin preparation and resin-embedded specimens, Preparation of sections involving microtome and cryostat.

Course outcome

- Familiarize with the equipments used for histological studies
- Implementing temporary and permanent mounting
- Differentiating various stains and chemicals used for each histological procedures

STUDENT LIST

Sl No	Class No	Name				
1	501	Amalrag Alex				
2	502	Abin Antony				
3	503	Amaya K P				
4	504	Nischaya V				
5	505	Nithara Tom				
6	506	S Krishnendu				
7	507	Salini Siju				
8	508	Shabana Yasmin				

ATTENDENCE



Add on Course offered by P.G Department of Zoology (SF) Biological Preservation Techniques Attendance of participants

SLNo	Roll No	Name of Student		27/01/2022			28/01/2022			
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1	21PG501	Amalrag Alex	Shape	Amen	-Ander	Argen	See	Analog	Andrew A	And Ex
2	21PG502	Abin Antony	9000	F100	900	Ston	Han	Harry.	Start .	Do
3	21PG503	Amaga K.P	Koraw	Krist	Mount	Kenge	Aces S	668	1000	Wash.
4	21PG504	Nischaya V	Destro	NO TOUR	Willy?	Mode	Mishall	ndala	Michael	atola
5	21PG505	Nithara Tom	Nime	Hamil	1500	3	Hamal	Klassia	None .	HIA.
6	21PG506	S Krishnendu	公路平	RUFFE	Crestal .	9200	A TOTAL	RETT	Ru-Tis	V33-011
7	21PG507	Salini Siju	9	a		8	8	A Comment	9	and the same
8	21PG508	Shabana Yasmin	(Stort	TTA.	(TA)	500	(MA	000	Cas	(FDA)

Scal of the Organizing Unit / Agency



Ambily K Chandran
Name(s) & Signature(s) of the Coordinator (s)



Photo



CERTIFICATE

DEVAMATHA COLLEGE KURAVILANGAD

Re-Accredited 'A' Grade by NAAC Website: www.devamatha.ac.in Email: principaldmck@gmail.com



CERTIFICATE

This is to certify thatSHABANA YASMINhas successfully completed the Add-on course: DMCK/SFZOO/AD37/2021: Biological preservation techniques conducted by Post Graduate Department of Zoology, Devamatha College, Kuravilangad, during the academic year 2021-2022 with '...A...' grade.

Ambily K Chandran Course Coordinator Dr. Brincy Mathew General Coordinator

Dr. Sunil C Mathew Principal

Kuravilangad

31-01-2022

Ambily K Chandran Add on Course Coordinator Department of zoology (SF)

Principal Deva Matha College Kuravilangad - 686 633