DEPARTMENT OF ZOOLOGY(S.F) DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT ON ADD-ON COURSE BIOLOGICAL PRESERVATION TECHNIQUES (DMCK/ SFZOO/AD 35/2022)

Academic Year: 2022-2023

DEVA MATHA COLLEGE KURAVILANGAD

DEPARTMENT OF SELF FINANCE ZOOLOGY

Add on Courses offered for Students: 2022-2023

1. Life Style Management
DMCK/ SFZ00/AD 34/2022
2. Biological Preservation Techniques
DMCK/ SFZ00/AD 35/2022



Department Coordinator: Ms. Ambily K. Chandran

Academic year : 2022-2023

Title : Biological preservation Techniques (DMCK/SFZOO/AD

35/2022)

Instructional Hours : 30 Hours

Duration : 3 months

Mode of Instruction : Online/Offline

Intake Capacity : 12

Eligibility : B Sc Zoology

Beneficiaries : I MSc Zoology

Date(s) on which program was conducted: 12/12/2022, 14/12/2022, 16/12/2022,

19/12/2022, 20/12/2022, 22/12/2022,

4/01/2023, 6/01/2023, 9/01/2023

Collaborating agency inside/outside the institute :Nil

Organizing Dept./Club & Name of the Coordinator :Zoology (SF)

Ms. Ambily K Chandran

Number of students participated in the programme : 12

The number of students completed the programme : 12

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Report

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 introduces tools and techniques available for studying biochemical and biophysical nature of life. This course helps 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 (10 hours)

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.

Module 2 (10 hours)

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.

PRACTICAL (10 hours)

- 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)

Assessment Procedure

Multiple Choice Questions

Grading

Grade	Grade point	Range
A+	5	4.50 - 5.00
A	4	4.00 - 4.49
В	3	3.00 - 3.99
С	2	2.00 - 2.99
D	1	0.01 - 1.99
Е	0	0

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

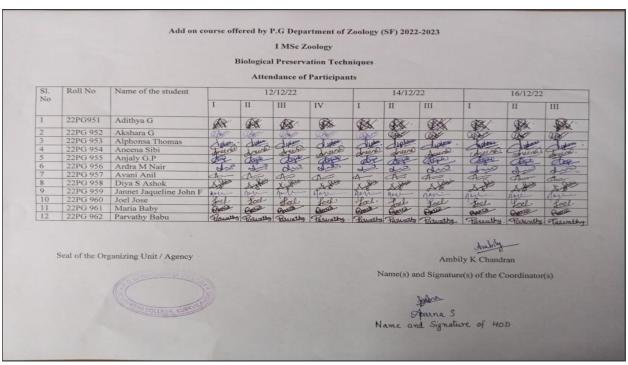
List of Resource Persons

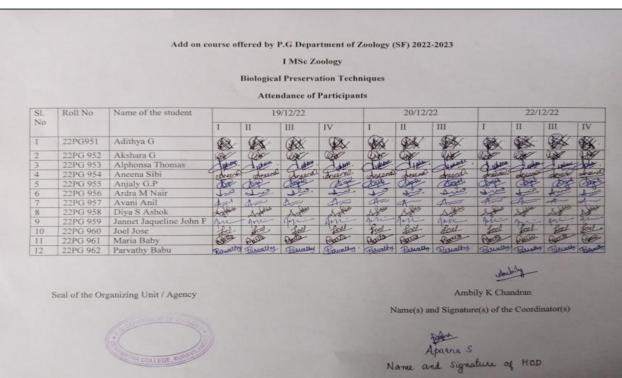
- 1. Ambily K Chandran
- 2. Aparna S.
- 3. Athira Raveendran

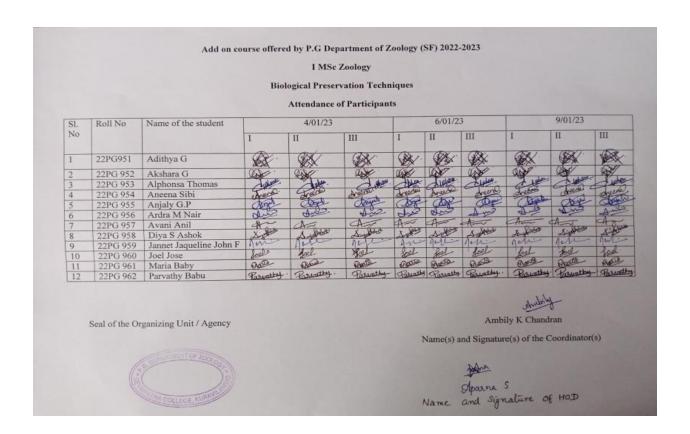
Students List

Sl.No	Class No.	Name	
1	951	Adithya G	
2	952	Akshara G	
3	953	Alphonsa Thomas	
4	954	Aneena Sibi	
5	955	Anjaly G P	
6	956	Ardra M Nair	
7	957	Avani Anil	
8	958	Diya S Ashok	
9	959	Jannet Jaqueline John F	
10	960	Joel Jose	
11	961	Maria Baby	
12	962	Parvathy Babu	

Attendance sheet of students







Photos







Mark List

Sl.No	Class No.	Name	Grade	
1	951	Adithya G	A	
2	952	Akshara G	A	
3	953	Alphonsa Thomas	A	
4	954	Aneena Sibi	A	
5	955	Anjaly G P	A	
6	956	Ardra M Nair	A	
7	957	Avani Anil	A	
8	958	Diya S Ashok	A	
9	959	Jannet Jaqueline John F	A	
10	960	Joel Jose	A	
11	961	Maria Baby	A	
12	962	Parvathy Babu	A	

Feed Back

Email Address	Batch	Course taken	Have the course met your expectations	Was this course useful to you?	Rate your overall experience	Do you have any suggestions
mariababy2310@gmail.com	First year	Biological Preservation Techniques	5	Yes	5	Nothing
gaksharaachu2002@gmail. com	First year	Biological Preservation Techniques	5	Yes	5	No suggestions .
diyasashok2018@gmail.co m	First year	Biological Preservation Techniques	5	Yes	5	It was good, Nothing to add
parvathybabukk002@gmail .com	First year	Biological Preservation Techniques	4	Yes	4	No suggestions.
gadithyaadi2002@gmail.co m	First year	Biological Preservation Techniques	5	Yes	5	Course was good No specific suggestions.
ardramnair20@gmail.com	First year	Biological Preservation Techniques	4	Yes	4	No such suggestions
jannetcyrilangel@gmail.co m	First year	Biological Preservation Techniques	5	Yes	5	Nothing
alphonsathomaskj@gmail.c om	First year	Biological Preservation Techniques	4	Yes	5	Nothing
aneenasibi26@gmail.com	First year	Biological Preservation Techniques	5	Yes	5	Nothing
joeljosek8@gmail.com	First year	Biological Preservation Techniques	5	Yes	5	Nothing
anjaligeethajose98@gmail.	First year	Biological Preservation Techniques	5	Yes	5	Nothing , Overall good and useful course
avanianil2000@gmail.com	First year	Biological Preservation Techniques	5	Yes	5	No

Model Certificate issued to the students.





Name of the coordinator: Ambily K Chandran

Department : Zoology (SF)

Dr. Brincy Mathew

Bring Methel

Add-on Course General Coordinator

Principal
Deva Matha College

Kuravilangad - 686 633