



Centurion University of Technology and Management

Bhubaneswar, Jatni, Odisha -752050

Workshop

on

**Microtome Technique**

**Date: 26th to 28th September 2019**

No. of Students and/or Faculty Participated: **40**

**Conducted by**

**Dr Siba Prasad Parida and Dr Yashaswi Nayak**

**Department of Zoology,**

**Centurion University of Technology and Management**

**About the resource person**

Dr. Siba Prasad Parida presently serving in Centurion University of Technology and Management as Associate Professor and former Head, Department of Zoology having specialization in entomology in M.Sc and developmental biology in M.Phil. His area of interest is Animal Taxonomy, Wildlife biology, Biodiversity conservation.

Dr. Yashaswi Nayak presently serving in Centurion University of Technology and Management as faculty and Head of the Department of Zoology and taken the charge of Dean, SoAS has around twenty years of teaching experience and possess specialization in Poultry management , vermicomposting processes. Her area of interest is Fishery Science and Vermicomposting.

## About the workshop

Microtomy is a method of tissue sample preparation that is often referred to as “sectioning” or “slicing”. Microtomy has been an essential component of microscopy for over a century. Ever since human curiosity peered through the microscope, methods and tools have been developed to slice anything of interest (animals, insects, plants, etc.) and place it on the stage for viewing. Cutting sections thin enough to view with a microscope was found nearly impossible to do by hand; therefore, machines that offered precision cuts were invented and have been fine-tuned over the decades. Currently, there are a wide variety of microtomes that are designed for specific materials or applications. Some of these include:

- **Cryostat:** Used to section unprocessed, frozen tissue sections, which aid in rapid diagnosis.
- **Ultramicrotome:** Used to section plastic-embedded tissue samples for electron microscopy in which the cellular organelles are highlighted.
- **Vibrating microtome:** Often used in research settings for delicate or difficult to cut samples, such as fresh brain tissue.
- **Laser microtome:** Used to cut very hard materials such as bones, teeth, or ceramics.
- **Rotary microtome (manual, semi-automatic, automatic):** Most frequently used in a histology laboratory for sectioning paraffin-processed tissue samples between 2 and 10 micrometers in thickness.

The focus of this course will be on the microtomy of paraffin-processed tissue samples using a rotary microtome.

## Outcome of the Program

Microtomy is a technique which yields thin tissue sections for microscopic examination of internal structure. The ultimate goal of microtomy in a histology laboratory is to produce slides that are free of artifacts and errors. As one of the most essential skills a histotechnologist can acquire, microtomy bridges the process between specimen collection and microscopic analysis.

Brochure of the Program



Workshop on

# Microtomy Technique

Date: 26th- 28th September 2019

**Conducted by**

**Dr Siba Prasad Parida and Dr Yashaswi Nayak**

**Department of Zoology,**

**Centurion University of Technology and Management**

Organised by

**Centurion University of Technology and  
Management**

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*Shaping Lives... Empowering Communities...*

Brochure of the session

## Participants Certificate



### Centurion University of Technology and Management Workshop on "Microtomy Technique"

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'Dr. Siba Prasad Parida and Dr. Yashaswi Nayak'

Bhubaneswar Campus

Date: 26/09/2019

(35)  
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Sl No	Name	Dept / Designation	Signature
1	Amanita Shudangi	Zoology (5th sem)	A. Shudangi
2	Sonalika Sahu	Zoology (5th sem)	Sonalika Sahu
3	Subhalaxmi Nayak	Zoology (5th sem)	Subhalaxmi Nayak
4	Basuki Rani Patra	Zoology (5th sem)	Basuki Rani Patra
5	Suryakumari Adhikari	Zoology (5th sem)	SP Adhikari
6	Anpita pradhan	Zoology (5th sem)	Anpita pradhan
7	Elisha Dash	Zoology (5th sem)	Elisha Dash
8	Hitarikhi Biswal	Zoology (5th sem)	Hitarikhi Biswal
9	Soumya Rani Nayak	Zoology (5th sem)	Soumya Rani Nayak
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11	Nikha Binja Hal	Zoology (5th sem)	Nikha Binja Hal
12	Rajesh Swain	Zoology (5th sem)	R. Swain
13	Anup K. Panda	Zoology (5th sem)	Anup Panda
14	Subhashree Mohanty	Zoology (3rd)	Subhashree Mohanty
15	Jasmine Sethi	Zoology (3rd sem)	J. Sethi
16	Jaara Jaasmin	Zoology (3rd sem)	Jaara Jaasmin
17	Rasmi Biswal	Zoology (3rd sem)	Rasmi Biswal
18	Pujarani Singh Deo	Zoology (3rd sem)	Pujarani Singh Deo
19	Prityanka Sa	Zoology (3rd sem)	Prityanka Sa
20	Sapna Dasgupta	Zoology (3rd sem)	Sapna Dasgupta
21	Pituroj Ghosh	Zoology (3rd sem)	Pituroj Ghosh
22	Shubham Tripathy	Zoology (3rd sem)	Shubham Tripathy
23	Abhishek Panty	Zoology (3rd sem)	Abhishek Panty
24	Abinash Mohapatra	Zoology (3rd sem)	Abinash Mohapatra
25	Biswa Bijay Das	Zoology (3rd sem)	Biswa Bijay Das

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Sl No	Name	Dept / Designation	Signature
26	Bedangini Sahu	26 Zoology (3rd sem)	Bedangini Sahu
27	Purnavi Pradhan	27 Zoology (3rd sem)	Purnavi Pradhan
28	Bhumalin Rana	28 Zoology (3rd sem)	Bhumalin Rana
29	Chandrika Saha	29 Zoology (3rd Sem)	Chandrika Saha
30	Nibedita Jena	30 Zoology (3rd sem)	Nibedita Jena
31	Manalisha Das	31 Zoology (3rd sem)	Manalisha Das
32	Jyoti Das	32 Zoology (3rd sem)	Jyoti Das
33	Sweety Hombroon	33 Zoology (3rd sem)	Sweety Hombroon
34	Anshu Pradhan	34 Zoology (3rd sem)	Anshu Pradhan
35	Ratika Sani	35 Zoology (3rd sem)	Ratika Sani
36	Arjun Kumar	36 Zoology (3rd sem)	Arjun Kumar
37	Pradip Kumar	37 Zoology / Asst Prof	Pradip Kumar
38	Suman Mohanty	38 Zoology / Asst Prof	Suman Mohanty
39	Jyoti Saha	39 Zoology / Asst Prof	Jyoti Saha
40	Sataram Swam	40 Zoology / Asst Prof	Sataram Swam
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# Centurion University of Technology and Management

## Workshop on "Microtomy Technique"

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Bhubaneswar Campus

Date: 27/09/2019

Sl No	Name	Dept / Designation	Signature
1	Dr. Siba Prasad Parida	Zoology	[Signature]
2	Dr. Yashaswi Nayak	Zoology	[Signature]
3	Dr. Siba Prasad Parida	Zoology	[Signature]
4	Dr. Siba Prasad Parida	Zoology	[Signature]
5	Kula Bhawan Pradhan	Mech / Lecturer	[Signature]
6	Miss Lipsa Samal	SPLS / Asst. Prof.	[Signature]
7	Ms. Prachi Rani Sahu	SPLS / Asst. Prof.	[Signature]
8	Sumitrananda Das	MSc	[Signature]
9	Subhashree Pattnayak	MSc	[Signature]
10	Somuti Ranjan Behera	MSc	[Signature]
11	Sutapa Nayak	MSc Zoology	[Signature]
12	Sushree Elora	MSc Zoology	[Signature]
13	Pratyasha Moharana	MSc zoology	[Signature]
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Bhubaneswar Campus

Date: 27/09/2019

Sl No	Name	Dept / Designation	Signature
1	Amrita Sradangi	Zoology, 5th sem	A. Sradangi
2	Sonalisa Sahu	Zoology, 5th sem	Sonalisa Sahu
3	Subalaxmi Sahu	Zoology, 3th sem	Subalaxmi Sahu
4	Suryaparna Adhikari	Zoology 5th sem	S. P. Adhikari
5	Bena Rani Patra	Zoology 5th sem	Bena Rani Patra
6	Arpita Pradhan	Zoology 5th sem	Arpita Pradhan
7	Elisha Dash	Zoology 5th sem	Elisha Dash
8	Hitanjali Biswal	Zoology 5th sem	Hitanjali Biswal
9	Soumya Rani Nayak	Zoology 5th sem	Soumya Rani Nayak
10			
11	Rakesh Sahoo	Zoology 5th sem	R. Sahoo
12	Nihar Ranjan Hota	Zoology 5th sem	N.R. Hota
13	Anup Kumar Panda	Zoology 5th	Anup Panda
14	Chandrika Saha	Zoology 3rd sem	Chandrika Saha
15	Monalisa Dasgupta	Zoology 3rd sem	Monalisa Dasgupta
16	Nibedita Jana	Zoology 3rd sem	Nibedita Jana
17			
18	Ankita Pradhan	Zoology 3rd sem	Ankita Pradhan
19	Sweety Hembram	Zoology 3rd sem	Sweety Hembram
20	Solita Das	Zoology 3rd sem	Solita Das
21	Subhanshu Mohanty	Zoology 3rd	Subhanshu M.
22	Jasmine Sethi	Zoology 3rd sem	J. Sethi
23	Jaara Jaasmin	Zoology 3rd sem	Jaara Jaasmin
24	Rusali Biswal	Zoology 3rd sem	Rusali Biswal
25	Pujanani Singh Deo	Zoology 3rd sem	Pujanani Singh Deo

Sl No	Name	Dept / Designation	Signature
26	Raviyanka Das	Zoology (3rd sem)	Raviyanka Das
27	Sona Choudhary	Zoology (3rd sem)	Sona Choudhary
28	Shubham Tripathy	Zoology (3rd sem)	Shubham Tripathy
29	Abhishek Tanti	Zoology (3rd Sem)	Abhishek Tanti
30	RITURAJ GHOSH	ZOOLOGY (3rd sem)	Rituraj Ghosh
31	Abinash Mohapatra	Zoology (3rd sem)	Abinash Mohapatra
32	Biswa Bijay Das	Zoology (3rd sem)	Biswa Bijay Das
33	Bedangini Sahoo	ZOOLOGY (3rd sem)	Bedangini Sahoo
34	Panavi Pradhan	ZOOLOGY (3rd sem)	Panavi Pradhan
35	Bhramelin Rane	ZOOLOGY (3rd sem)	Bhramelin Rane
36	Abhishek Kulkarni	ZOOLOGY (3rd sem)	Abhishek Kulkarni
37	Monalika Das Jayasingh	ZOOLOGY (3rd sem)	Monalika Das Jayasingh
38	Biswajit Mishra	ZOOLOGY (3rd sem)	Biswajit Mishra
39	Sonal Prasad Barik	ZOOLOGY (3rd sem)	Sonal Prasad Barik
40			
41	Chh Alisha Jais	Forensic science	Chh Alisha Jais
42	Rasella Rathi	Forensic Science (2nd yr)	Rasella Rathi
43	Sushree Nitu Behera	Forensic science (2nd yr)	Sushree Nitu Behera
44	Nelam priyadarshini Das	Forensic science (2nd yr)	Nelam priyadarshini Das
45	Adyasha Jena	Forensic science (2nd yr)	Adyasha Jena
46	Tamesa Manthorjee	Forensic science (2nd sem)	Tamesa Manthorjee
47	Abhishek Nayak	Forensic science (3rd)	Abhishek Nayak
48	Ketaki Sethy	Forensic Science (3rd sem)	K. Sethy
49	Uday Kumar Parigrahi	Forensic science	Uday Kumar Parigrahi
50	Sailesh Subhanvit Barik	Forensic Science	Sailesh Subhanvit Barik





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Sl No	Name	Dept / Designation	Signature
1	Pradip Kumar Saha	Zoology	Pradip Kumar Saha
2	Sozomen Mohanty	Zoology	Sozomen Mohanty
3	Prachi Saha	SPLS / Asst Prof	Prachi Saha
4	Sumita Satapathy	Zoology / Asst. Prof.	Sumita Satapathy
5			
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10	Dr. Setarany Swain	Zoology	Setarany Swain
11	Raidesh Swain	Zoology 5th	Raidesh Swain
12	Anup Kumar Panda	Zoology 5th sem	Anup Kumar Panda
13	Nihar Ranjan Hota	Zoology 5th	Nihar Ranjan Hota
14	Aakash Nayak	Zoology 5th sem	Aakash Nayak
15	Sonalisa Saha	Zoology 4th sem	Sonalisa Saha
16	Subhakarini Patra	Zoology 5th sem	Subhakarini Patra
17	Abinash Mohapatra	Zoology 3rd sem	Abinash Mohapatra
18	Biswa Bijay Das	Zoology 3rd sem	Biswa Bijay Das
19	Abhishek Tanty	Zoology 3rd sem	Abhishek Tanty
20	Sipra Gananayak	Zoology 3rd sem	Sipra Gananayak
21	Rivali Biswal	Zoology 3rd sem	Rivali Biswal
22	Rituraj Ghosh	Zoology 3rd sem	Rituraj Ghosh
23	Monalisa Singh	Zoology 3rd sem	Monalisa Singh
24	Devi Devi	Zoology 3rd sem	Devi Devi
25	Sweety Hembrom	Zoology 3rd sem	Sweety Hembrom

Sl No	Name	Dept / Designation	Signature
26	Anvita Pawar	BSc Zoology (3rd sem)	Anvita Pawar
27	Yara Yaasmin	BSc ZOO (3rd sem)	Yara Yaasmin
28	Chandrika Saye	BSc Zoo (3rd Sem)	Chandrika Saye
29			
30	Anvita Shalangi	BSc Zoology (3rd sem)	Anvita Shalangi
31	Nivedita Jena	BSc (Zoology) (3rd sem)	N. Jena
32	Pratyasha Moharana	MSc (zoology) 3rd sem	P. Moharana
33	Sushree Elora.	MSc (Zoology) 3rd sem	S. Elora.
34	Sutapa Nayak	MSc (Zoology) 3rd sem	S. Nayak
35	Prachi Prava Das	MSc (zoology) 3rd sem	P. Das.
36	Elora Barin	MSc. Zoology 3rd sem	Elora Barin
37	Jogesh Nayak	MSc Zoology 3rd sem	Jogesh Nayak
38	Biswajit Jena	M.Sc. (Zoology) 3rd sem	Biswajit Jena
39	Anvesha Aparamita Nayak	MSc (Zoology) 3rd sem	A.A. Nayak
40	Sarthak Siddhant Mishra	M.Sc (Zoology) 3rd sem	Sarthak
41	A.R. Mangaldeep	MSc (zoology) 3rd sem	A.R.
42	Sidhartha Roy	MSc (zoology) 3rd sem	Sidhartha Roy
43	Sebhashree Pattanayak	MSc. (zoology) 3rd sem	S. Pattanayak
44	Hitanjali Biswal	BSc. (zoology) 3rd sem	H. Biswal
45	Elisha Das	BSc. (zoology) 3rd sem	E. Das
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Snap of the session on **Microtome Technique**

A handwritten signature in blue ink, consisting of a stylized 'K' and 'P'.

Prof. KVD Prakash  
Dean - IIE & HRD

A handwritten signature in black ink, appearing to read 'Prasanta'.

Dr. Prasanta Ku. Mohanty  
Dean Academic