



DEPARTMENT OF MICROBIOLOGY
GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG



One Week Workshop and Hands on Training

In Collaboration with

**MICROBIOLOGISTS SOCIETY, INDIA, CIIMS, NAGPUR and
SIDDHACHALAM LABORATORIES, RAIPUR**

on

**Awareness of Trends in Technology: Immunodiagnostics,
Nanotechnology and Bioinformatics for Microbiology**

09-01-2023 to 14-01-2023

S.No.	Resource Persons
1	Ms. Payal Khulkhule, Research Officer, CIIMS, Nagpur (MS)
2	Ms. Deeksha Deshbartar, Research Officer, CIIMS, Nagpur (MS)
3	Dr. Rajpal Singh Kashyap, Research Director, CIIMS, Nagpur (MS)
4	Dr. Sanjeev Patankar, National Coordinator, MBSI (MS)
5	Dr. Bhawana Jain, Director, Siddhachalam Lab. Raipur (CG)
6	Dr. Ranjana Sahu, BMM, Bhilai (CG)
S. No.	Faculty Involvement Dept. of Microbiology, Govt. VYT PG Autonomous College, Durg (CG)
1	Dr. Pragya Kulkarni
2	Mrs. Neetu Das
3	Ms. Anamika Sharma
4	Ms. Priya Sao
5	Ms. Mrinalini Soni
6	Ms. Neetu Bhargav

Participants		47 (PG students and Research Scholars)
S.No.	Name	Class
1	Anisha	M.Sc. Sem II
2	Archana Chandrakar	M.Sc. Sem II
3	Bhumika Karte	M.Sc. Sem II
4	Danish Vinod Patil	M.Sc. Sem II
5	Divya Rahangdale	M.Sc. Sem II
6	Esha Nag	M.Sc. Sem II
7	FalitaKunjam	M.Sc. Sem II
8	Heena	M.Sc. Sem II
9	Jyoti	M.Sc. Sem II
10	K. Divya Rao	M.Sc. Sem II
11	KajalDhritlahare	M.Sc. Sem II
12	Kedarnath	M.Sc. Sem II

13	Kunjita Deshmukh	M.Sc. Sem II
14	Madhvi Sahu	M.Sc. Sem II
15	Mansi Shrivastava	M.Sc. Sem II
16	Monisha	M.Sc. Sem II
17	Pragya Bhatt	M.Sc. Sem II
18	Pragya Sakhare	M.Sc. Sem II
19	Sanket Kumar	M.Sc. Sem II
20	Saroj	M.Sc. Sem II
21	Sunita	M.Sc. Sem II
22	TirishyaGota	M.Sc. Sem II
23	Uzma Khatoon	M.Sc. Sem II
24	Vandana Sidar	M.Sc. Sem II
25	Vani Thakur	M.Sc. Sem II
26	Bhavesht Thakur	M.Sc. Sem IV
27	Bhumika Bajaj	M.Sc. Sem IV
28	Garima Thakur	M.Sc. Sem IV
29	Himanshi Dewangan	M.Sc. Sem IV
30	Himanshu Nayak	M.Sc. Sem IV
31	Kajal	M.Sc. Sem IV
32	Ketki Yadav	M.Sc. Sem IV
33	Lukeshwari	M.Sc. Sem IV
34	Maya Soni	M.Sc. Sem IV
35	Namrata Thakur	M.Sc. Sem IV
36	Paridhi Shrivastava	M.Sc. Sem IV
37	Pawan Kumar Patel	M.Sc. Sem IV
38	Pinisha	M.Sc. Sem IV
39	Ranjita Haldar	M.Sc. Sem IV
40	Rupeshwari	M.Sc. Sem IV
41	Sakshi	M.Sc. Sem IV
42	Saleha Naj	M.Sc. Sem IV
43	ShailyTamrakar	M.Sc. Sem IV
44	Tilotama Das	M.Sc. Sem IV
45	Taniya Sahu	Research Scholar
46	Mansi V. Sahu	Research Scholar
47	Bharti Ahirwar	Research Scholar

Brief Report

<p>Day 1 09.01.2023</p>	<ul style="list-style-type: none"> • Registration • Inauguration ➤ Lecture: Immunoassay and its applications in neurological disorders – Types of immune cells involved, identification of immune reaction and qualitative diagnosis of TB, Brucella and Meningitis (Ms. Payal Khulkhule) ➤ Practical: Reagent Preparation, Micropipette handling, Multichannel pipette handling, Instrumentation handling, Demonstration of Indirect ELISA (TB Multiplex antibodies ELISA)(Ms. Deeksha Deshbartar)
<p>Day 2 10.01.2023</p>	<ul style="list-style-type: none"> ➤ Lecture: Analysis of all compiled data using Medcalc software, Graphical representation of data using Graph pad prism (Ms. Payal Khulkhule) ➤ Practical: Coating and Blocking of micro wells, sample dilution, antibody detection, Report preparation (Ms. Deeksha Deshbartar)
<p>Day 3 11.01.2023</p>	<ul style="list-style-type: none"> ➤ Lecture: Session on Applications of Immunodiagnostics in Medical Research, About CIIMS, Programs, courses and services of CIIMS (Ms. Payal Khulkhule) ➤ Lecture: Translational Research Model of CIIMS (Dr. Rajpal Singh Kashyap, Director, Research, CIIMS, Nagpur) ➤ Panel Discussion: Career in Life science – A roadmap (Dr. Sanjeev Patankar, National Coordinatore, MBSI), Discussion partners: Dr. Pragya Kulkarni, Head, Microbiology Govt. VYT PG Autonomous College, Durg, Dr. Awadhesh Shrivastava, State Coordinator MBSI, Dr. Shama A. Baig and Dr. Bhawana Pandey, Member, MBSI ➤ Question/ Answer session by participants
<p>Day 4 12.01.2023</p>	<ul style="list-style-type: none"> ➤ Lecture:Nanotechnology and Synthesis of Nanoparticles, nanorods, nanotubes and nanocomposite (Dr. Bhawana Jain) ➤ Practical: Synthesis of Zinc Molybdate nanocomposite by precipitation method, isolation and purification of nanocomposite, application as antibacterial and antifungal agent for <i>E. coli</i> and <i>Aspergillus niger</i>, Dye remediation activity on Phenol red and Methylene blue (Dr. Bhawana Jain) ➤ Lecture: Services provided by Siddhachalam Lab as thesis writing, project proposals, available fellowships, handling of advanced research software (Dr. Bhawana Jain)
<p>Day 5 13.01.2023</p>	<ul style="list-style-type: none"> ➤ Lecture:Basics of Bioinformatics, Working on Tools and MEGA 5 Software for construction of Phylogenetic tree(Dr. Ranjana Sahu) ➤ Practical:Handling BLASTtool to compare nucleotide and protein data base with unknown gene sequence for regions of similarity and calculate statistical significance
<p>Day 6 14.01.2023</p>	<ul style="list-style-type: none"> ➤ Quiz for Participants: Through Kahoot software (25 Questions based on entire learning of workshop) ➤ Feedback session forParticipants

➤ **Certificate distribution and Valedictory:** Chief guest- Dr. S.C. Tiwari, Regional AD, Higher Education, CG Govt., President- Dr. R. N. Singh, Principal, Govt. VYT PG Autonomous College, Durg, Special guests- Dr. Jagjeet Kaur Saluja, IQAC Coordinator, Govt. VYT PG Autonomous College, Durg and Dr. Anupama Asthana, UGC Coordinator, Govt. VYT PG Autonomous College, Durg



