

# Olivhealth Path Lab

- ★ Olivhealth Path Lab (A Unit of Niramayaa Consulting India Pvt. Ltd.)
- ★ Olivhealth Path Lab is a leading healthcare provider offering accurate and affordable pathology testing and preventive health checkups. With a corporate lab in Gomti Nagar, Lucknow, and labs in Gorakhpur, Banagalore, Kanpur, Gonda, Bahraich, Lakhimpur, Bareilly, Moradabad, and Haldwani, we have a network of 200+ franchises across India.
- ★ The organization Oliv Health (A unit of Niramayaa consulting India Pvt. Ltd.) was originally established in 2016.
- ★ Sachin Kumar Gupta, the visionary behind Olivhealth Path Lab since 2016, is dedicated to revolutionizing diagnostic services.
- ★ Mr. Sachin Kumar Gupta is the CEO of this organization and Dr. Ruchi Dinkar is operational in-charge.
- ★ Committed to impacting lives and empowering health, Olivhealth Path Lab offers top tier testing facilities. Their mission is to ensure healthcare accessibility for all, emphasizing patient-centric care through comprehensive testing. Olivhealth Path Lab strives to provide unmatched healthcare solutions nationally and regionally.
- ★ His passion for excellence drives the lab's commitment to high-quality diagnostics, making healthcare a seamless experience for all.



### Vision

We here at Olivhealth Path lab are always providing a healthcare system that is impacting lives, empowering health, a high quality testing facility, which is a class for our customers institutionally, regionally, and nationally.



### Our Services

- ★ Blood Tests
- ★ Histopathology
- ★ Immunohistochemistry
- ★ Serology
- ★ Microbiology
- ★ Virology
- ★ Molecular Diagnostics
- ★ Cytogenetics
- ★ Immunology
- ★ Oncology
- ★ Maternal screening

We provide high-quality results with fast turnaround times, using state-of-the-art equipment. Our home sample collection service offers convenience for our patients.



### Mission

Providing a healthcare platform that is accessible for all.

“We here at Olivhealth Path lab to excellent patient care by providing comprehensive and quality laboratory testing with patient focused consultations and results. This mission is supported by our value pillars Clinical excellence, Operational excellence, training and development, customer education and continuous quality improvement.



### Our Policy

Our policy is to give the most accurate, modern and the fastest diagnostic results at minimum possible cost.

## Visionaries Behind the Dream



### Founder

Mr. Sachin Kumar Gupta

“**Sachin Kumar Gupta**, the visionary behind Olivhealth Path Lab since 2016, is dedicated to revolutionizing diagnostic services. Committed to impacting lives and empowering health, Olivhealth Path Lab offers top tier testing facilities. Their mission is to ensure healthcare accessibility for all, emphasizing patient-centric care through comprehensive testing. Olivhealth Path Lab strives to provide unmatched healthcare solutions nationally and regionally. Sachin's passion for excellence drives the lab's commitment to high-quality diagnostics, making healthcare a seamless experience for all.

”

**Co-Founder**  
Dr. Ruchi

“**Dr. Ruchi**, leading our pathology team with expertise and precision, ensures accurate diagnoses for our patients, ensuring their well-being is prioritized at every step.”



**Co-Founder**  
Vinay Kumar Gupta

“**Vinay Kumar Gupta**, the driving force behind Olivhealth Path Lab's vision of accessible healthcare. With a passion for innovation and accessibility, Vinay leads us towards a healthier tomorrow.”

## Our Dynamic Team



**Chartered Accountant**  
Samrat Chandra

“**Samrat Chandra's** financial acumen drives Olivhealth's stability and growth, ensuring efficient resource allocation to support our mission of accessible healthcare for all.”



**Technical Head**  
Er. Nasim Ahmad

“**Leader of Quality, Nasim Ahmad**, heading Technical and Quality Checks, upholds the highest standards, ensuring precision and reliability in every robotic automation to get the quality results.”



**Brand Manager**  
Sujat Aziz

“**Sujat Aziz** leads our digital outreach efforts, employing innovative strategies to engage with our audience and advance Olivhealth's mission of making healthcare accessible to all.”



**Quality Coordinator**  
Archana Yadav

“**Archana Yadav** fosters a culture of inclusivity and growth, nurturing our talented team to excel in their roles and contribute to Olivhealth's success story.”

# Research & Training

We have a team of well-established group of Doctors, Scientists and Laboratory Personnel, some having more than 15 years of research experiences in various fields of Medical & Life Sciences.

Olivhealth Path Lab is dedicated to provide a backbone to the biological research, for proper utilization of the advancements in the field of biological sciences by taking together students, professional, academics, organizations through consultative, advisory, educative process which will provide growth and partnership opportunities for organization, academics, students, the society and mankind as a whole.

Olivhealth Path Lab works to create a platform conducive for the growth promotion and partnering in the field of biological sciences.

Olivhealth Path Lab is dedicated to provide excellent platform to needful candidates for their career growth, hands-on work experience and self-confidence in the field of Life science & Medical Science research to meet the growing demands & needs of biotech industries and Hospitals for professionally trained candidates.

Olivhealth Path Lab is dedicated to provide excellent hands-on training with state of the art technology to graduate/post graduate/diploma candidates either pursuing or passed out in the field of Medical Laboratory Technology, Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of Life sciences.

Olivhealth Path Lab imparting in-depth knowledge in clinical biochemistry, microbiology, haematology, immunology, histopathology and molecular biology among other areas of medical laboratory technology. Students practice how to perform complex laboratory procedures and present an accurate understanding of the test results.

Olivhealth Path Lab provide a career defining and in depth practical experience & functional skill development opportunity during training period. We are also dedicated to provide new talent to diagnostic industry by giving advance laboratory diagnostic training through the team of expert doctors/ scientists/ senior technologists.

Olivhealth Path Lab has independent research & development wing, which has developed many In-vitro Diagnostic Products with In-house Research Proprietary.

The candidates will be awarded with a specified certificate after successful completion of their training period.

## Research & Laboratory Facility

1. Research Paper/Abstract Publication facility (National & International Scientific Journals).
2. Fully air conditioned with Wi-Fi zone.
3. Well-equipped lab with separate conference hall (having digital projector).
4. Individual handling on each technique during lab.
5. Library facility & e-Book facility.
6. Career counselling services to all the trainees.
7. Quiz competition with special prizes in each batch for every program.
8. Olivhealth Path Lab will help to face an interview for job in Biotech/Pharma/CSIR Lab.
9. Olivhealth Path Lab provides study materials for an interview.
10. Olivhealth Path Lab will help to candidates for attractive Resume Development.

## Selection Criteria for Training Modules

- ★ Selection of candidates will be based on First Come First Serve Basis for all training Modules.
- ★ T&C apply for Registration Process it depends on Seat Availability.
- ★ Intake capacity for each batch is limited.
- ★ **NOTE:** For Project/Dissertation work, please select your choice of option from Module-OHL-11

## How To Apply

### Registration Fee

- ★ Candidates have to make payment of Rs. 500/- through Cash/UPI/DD.
- ★ Candidates have to download application form through our website i.e. [www.olivhealthpathalb.com](http://www.olivhealthpathalb.com) and fill it completely as per instruction given in the form.
- ★ Send or Submit the application form along with DD/UPI/Cash to our Company address through
- ★ Courier/Speed-Post/By hand.

## Our R&D Team



**Scientific Officer &  
Lab Coordinator**  
Dr. Kamal Kishor

“**Dr. Kamal Kishor, Ph.D.**, leads research in hemostasis, thrombosis, and molecular diagnostics in hematology and oncology, driving advancements at AIIMS, New Delhi, to support Olivhealth's mission of improving healthcare.”



**Lead Scientist  
(R&D & Formulation)**  
Jasmeet Singh

“**Mr. Jasmeet Singh** is a core Virologist. He is leading our R&D and formulation efforts in molecular diagnostic and driving innovation and developing cutting-edge solutions to advance Olivhealth's mission of providing accessible, high-quality healthcare.”



**Research & Training  
Coordinator**  
Dr. Ziyaul Haque

“**Dr. Ziyaul Haque** coordinates our research and training programs, leveraging innovative approaches to foster learning and advance healthcare solutions, all while supporting Olivhealth's goal of making healthcare accessible to all.”



**Sr. Technologist  
(Hematology)**  
Annu Chaudhry

“**Ms. Annu** is a Senior Technologist in Hematology, leading advanced diagnostic processes and ensuring accurate results to support Olivhealth's commitment to providing accessible and reliable healthcare solutions.”



**Sr. Technologist  
(Biochemistry)**  
Pragati Sharma

“**Ms. Pragati** is a Senior Technologist in Biochemistry, overseeing advanced diagnostic procedures and ensuring precision in results, contributing to Olivhealth's mission of delivering accurate and accessible healthcare solutions.”



**R&D Assistant  
Serology)**  
Anwar Ahmed

“**Mr. Anwar Ahmed** supports R&D in serology, using innovative methods to advance healthcare solutions and contribute to Olivhealth's mission of making healthcare accessible to all.”



# Olivhealth Training Modules

## For Life Science Candidates

★ Eligibility Criteria: BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences).

S. No.	Module Code	Module Name	Duration	Course Fee + 500 INR Registration Fee
1.	OHL-1	Basic Biotechnological Techniques	1 Month	3500 + 500
2.	OHL-2	Basic Microbiological Techniques	1 Month	3500 + 500
3.	OHL-3	Basic Molecular Biological Techniques	1 Month	3500 + 500
4.	OHL-4	Basic Biostatistical Techniques	1 Month	3500 + 500
5.	OHL-5	Basic Bioinformatics Techniques	1 Month	3500 + 500
6.	OHL-6	General Laboratory Techniques	1 Month	3500 + 500
7.	OHL-7	Advanced Biotechnological Techniques	2 Month	6500 + 500
8.	OHL-8	Advanced Microbiological Techniques	2 Month	6500 + 500
9.	OHL-9	Advanced Molecular Biological Techniques	2 Month	6500 + 500
10.	OHL-10	Advanced Bioinformatics Techniques	2 Month	6500 + 500
11.	OHL-11	Project/Dissertation	3 Month	9500 + 500
			6 Month	18000 + 500

*Table-1 Brief Details of OHL Module Code, Name & Fee Structure*

**NOTE:** Candidates (OHL-11) will work on an assigned Live Project/Dissertation.

Projects/Dissertation will be related to following areas-

- ★ Serology
- ★ Molecular Bacteriology
- ★ Molecular Virology
- ★ Biochemistry
- ★ Bioinformatics
- ★ Quality Assurance

### For Medical Lab Technology Candidates

★ Eligibility Criteria: BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences).

S. No.	Module Code	Module Name	Duration	Course Fee + 500 INR Registration Fee
1.	OHM-1	Basic Laboratory Techniques	10 Days	1000 + 500
2.	OHM-2	Advanced Laboratory Techniques	15 Days	1500 + 500
3.	OHM-3	Most Advanced Laboratory Techniques	1 Month	2500 + 500
4.	OHM-4	Hands-On Basic Laboratory Techniques	2 Month	5000 + 500
5.	OHM-5	Hands-On Advanced Laboratory Techniques	3 Month	7500 + 500

*Table-2 Brief Details of OHM Module Code, Name & Fee Structure*

## Module Details

### Module No: OHL-01

**Module Name:** Basic Biotechnological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences).

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Introduction to Biotechnology and Allied Fields.
2.	Introduction to General Lab Rules and Sterilization Techniques.
3.	Agarose Gel Electrophoresis for Plasmid/Genomic DNA
4.	Operating Highly Sophisticated Instruments such as Electrophoresis Units (Horizontal & Vertical), Digital UV-Visible PC based Spectrophotometer, Blotting Apparatus, UV Transilluminator, Thermal Cycler (PCR Machine) & Gel Doc. System.
5.	Basics of Calculations, Weighing and Measurements.
6.	Process of Sterilization and Decontamination.
7.	Media Preparation.
8.	Pouring & Plugging for Bacterial Cultures.
9.	Isolation and Culturing of Microbes from Soil Sample (Through Serial Dilution Method).
10.	Isolation and Culturing of Microbes from Water Sample (Through Serial Dilution Method).

11.	Isolation and Culturing of Microbes from Air (Through Exposure Method).
12.	Pure Culture of Microbes through Streaking Method.
13.	Slant Preparation & Sub Culturing of Microbes.
14.	Staining Techniques.
15.	General and Safety Instructions in Molecular Biology
16.	Good Laboratory Practices in Molecular Biology
17.	Preparation of Reagents Stock Solutions
18.	Methods of Labelling and Storage
19.	DNA Isolation from Plant Sample.
20.	Agarose Gel Electrophoresis for Plasmid/Genomic DNA

### Module No: OHL-02

**Module Name:** Basic Microbiological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

S. No.	Techniques
1.	General and Safety Instructions for Working in Microbiology Lab
2.	Bio-Instrumentation for Wet Lab.
3.	Working with Autoclave, Hot-Air Oven, Laminar Air Flow, Microscope and other Microbiological Laboratory Instruments
4.	Handling of Micropipettes, Petri plates, Spreaders, Inoculation Loop and other Microbiological Tools.
5.	Identification and Classification of Microbes.
6.	Culturing of Microbes.
7.	Types of Culture Media.
8.	Media Preparation.
9.	Solid and Liquid Media Preparation.
10.	Preparation of Cotton Plug, Plugging for Bacterial Cultures.
11.	Sterilization Process.
12.	Chemical Sterilization Process.
13.	Physical Sterilization Process.

14.	Pouring of Media on Plates.
15.	Pour Plate Technique.
16.	Spread Plate Technique.
17.	Various Streaking Methods.
18.	Pure Culture Preparation through Solid Media.
19.	Maintenance of Pure Culture.
20.	Staining Techniques. (A) Gram Staining. (B) Endospore Staining.
21.	Isolation and Characterization of Antibiotics from Microbes
22.	Antibiotics Sensitivity Test.
23.	Evaluation and Determination of Minimum Inhibitory Concentration (MIC)

### Module No: OHL-03

**Module Name:** Basic Molecular Biological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working in Molecular Biology Laboratory.
2.	General and Safety Instructions.
3.	Good Laboratory Practices.
4.	Principle and Handling of Laboratory Equipments.
5.	Basics of Calculations, Weighing and Measurements
6.	Preparation of Reagents, Stock Solutions & Methods of Labelling and Storage.
7.	Process of Sterilization and Decontamination.
8.	Extraction and Purification of Genomic DNA from Microbes
9.	Electrophoresis of Genomic DNA
10.	Determination of Purity of Bacterial Genomic DNA
11.	Determination of Purity of Bacterial Genomic DNA.
12.	Molecular Pathology Techniques
13.	Sample decontamination Techniques
14.	Sample Preparation for PCR

15.	DNA/RNA Extraction
16.	Real-time PCR
17.	Analysis of Ct Value
18.	Interpretation of Result
19.	Molecular Pathology Techniques
20.	Sample decontamination Techniques
21.	Sample Preparation for PCR
22.	DNA/RNA Extraction
23.	Real-time PCR
24.	Analysis of Ct Value
25.	Interpretation of Results

#### **Module No: OHL-04**

**Module Name:** Basic Biostatistical Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

<b>S. No.</b>	<b>Techniques</b>
1.	Introduction of Biostatistics
2.	Descriptive and Inferential Statistics
3.	Arithmetic and Geometric Mean
4.	Measures of Variability
5.	Data Collection
6.	Data Presentation
7.	Statistical Inference and Probability
8.	Advances Analysis Methods
9.	Testing of Hypothesis
10.	Analysis of Variance (ANOVA)
11.	Design of Experiments

#### **Module No: OHL-05**

**Module Name:** Basic Bioinformatics Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Introduction to Bioinformatics and Overview of Biological Research
2.	Biological Databases and Database Searching
3.	Data Mining and Sequence Retrieval
4.	Motif & Domain Assignment
5.	Proteomics
6.	Protein Threading and Interaction
7.	Pair wise and Multiple Sequence Alignment
8.	Sequence Analysis (BLAST, FASTA, CLUSTALW)
9.	Phylogenetic Analysis
10.	Structure Prediction
11.	Visualization Tools
12.	Other Relevant Confirmatory Tools
13.	Homology Modeling

### Module No: OHL-06

**Module Name:** General Laboratory Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 1 Month) Training Fee 3500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Test facility management
2.	Quality assurance programme
3.	Meeting the requirements of the test facility
4.	Equipment
5.	Receipt, handling, sampling and storage
6.	Standard operating procedures.
7.	Performance of the study.
8.	Reporting of study results
9.	Storage and retention of records and materials.

### Module No: OHL-07

**Module Name:** Advanced Biotechnological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 2 Month) Training Fee 6500 INR + 500 INR for Registration)

<b>S. No.</b>	<b>Techniques</b>
1.	Introduction to Biotechnology and Allied Fields.
2.	Introduction to General Lab Rules and Sterilization Techniques.
3.	Agarose Gel Electrophoresis for Plasmid/Genomic DNA
4.	Operating Highly Sophisticated Instruments such as Electrophoresis Units (Horizontal & Vertical), Digital UV-Visible PC based Spectrophotometer, Blotting Apparatus, UV Transilluminator, Thermal Cyclor (PCR Machine) & Gel Doc. System.
5.	Basics of Calculations, Weighing and Measurements.
6.	Process of Sterilization and Decontamination.
7.	Media Preparation.
8.	Pouring & Plugging for Bacterial Cultures.
9.	Isolation and Culturing of Microbes from Soil Sample (Through Serial Dilution Method).
10.	Isolation and Culturing of Microbes from Water Sample (Through Serial Dilution Method).
11.	Isolation and Culturing of Microbes from Air (Through Exposure Method).
12.	Pure Culture of Microbes through Streaking Method.
13.	Slant Preparation & Sub Culturing of Microbes.
14.	Staining Techniques.
15.	General and Safety Instructions in Molecular Biology
16.	Good Laboratory Practices in Molecular Biology
17.	Preparation of Reagents Stock Solutions
18.	Methods of Labelling and Storage
19.	DNA Isolation from Plant Sample.
20.	Agarose Gel Electrophoresis for Plasmid/Genomic DNA
21.	Sample decontamination Techniques
22.	Sample Preparation for PCR
23.	DNA/RNA Extraction
24.	Real-time PCR
25.	Analysis of Ct Value
26.	Copy No. Calculation
27.	Interpretation of Result
28.	Check efficiency of PCR
29.	Immunoassay Techniques
30.	Protein Electrophoresis

31.	Gel Electrophoresis
32.	Conventional PCR
33.	Agarose Gel Preparation
34.	Gel Loading
35.	Interpretation of Gel result
36.	Gel Doc Technique
37.	Glimpse on Laboratory Information System
38.	Result Entry on LIS
39.	Final Reporting
40.	Sample decontamination Techniques
41.	Sample Preparation for PCR
42.	DNA/RNA Extraction
43.	Real-time PCR
44.	Analysis of Ct Value
45.	Copy No. Calculation
46.	Interpretation of Result
47.	Check efficiency of PCR

### Module No: OHL-08

**Module Name:** Advanced Microbiological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 2 Month) Training Fee 6500 INR + 500 INR for Registration)

S. No.	Techniques
1.	General and Safety Instructions for Working in Microbiology Lab
2.	Bio-Instrumentation for Wet Lab.
3.	Working with Autoclave, Hot-Air Oven, Laminar Air Flow, Microscope and other Microbiological Laboratory Instruments
4.	Handling of Micropipettes, Petri plates, Spreaders, Inoculation Loop and other Microbiological Tools.
5.	Identification and Classification of Microbes.
6.	Culturing of Microbes.
7.	Types of Culture Media.

8.	Media Preparation.
9.	Solid and Liquid Media Preparation.
10.	Preparation of Cotton Plug, Plugging for Bacterial Cultures.
11.	Sterilization Process.
12.	Chemical Sterilization Process.
13.	Physical Sterilization Process.
14.	Pouring of Media on Plates.
15.	Pour Plate Technique.
16.	Spread Plate Technique.
17.	Various Streaking Methods.
18.	Pure Culture Preparation through Solid Media.
19.	Maintenance of Pure Culture.
20.	Staining Techniques. (A) Gram Staining. (B) Endospore Staining.
21.	Isolation and Characterization of Antibiotics from Microbes
22.	Antibiotics Sensitivity Test.
23.	Evaluation and Determination of Minimum Inhibitory Concentration (MIC)
24.	Sample decontamination Techniques
25.	Sample Preparation for PCR
26.	DNA/RNA Extraction
27.	Real-time PCR
28.	Analysis of Ct Value
29.	Copy No. Calculation
30.	Interpretation of Result
31.	Check efficiency of PCR
32.	Immunoassay Techniques
33.	Protein Electrophoresis
34.	Gel Electrophoresis
35.	Conventional PCR
36.	Agarose Gel Preparation
37.	Gel Loading
38.	Interpretation of Gel result

39.	Gel Doc Technique
40.	Glimpse on Laboratory Information System
41.	Result Entry on LIS
42.	Final Reporting
43.	Sample decontamination Techniques
44.	Sample Preparation for PCR
45.	DNA/RNA Extraction
46.	Real-time PCR
47.	Analysis of Ct Value
48.	Copy No. Calculation
49.	Interpretation of Result
50.	Check efficiency of PCR

### Module No: OHL-09

**Module Name:** Advanced Molecular Biological Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 2 Month) Training Fee 6500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working in Molecular Biology Laboratory.
2.	General and Safety Instructions.
3.	Good Laboratory Practices.
4.	Principle and Handling of Laboratory Equipments.
5.	Basics of Calculations, Weighing and Measurements
6.	Preparation of Reagents, Stock Solutions & Methods of Labelling and Storage.
7.	Process of Sterilization and Decontamination.
8.	Extraction and Purification of Genomic DNA from Microbes
9.	Electrophoresis of Genomic DNA
10.	Determination of Purity of Bacterial Genomic DNA
11.	Determination of Purity of Bacterial Genomic DNA.
12.	Molecular Pathology Techniques
13.	Sample decontamination Techniques

14.	Sample Preparation for PCR
15.	DNA/RNA Extraction
16.	Real-time PCR
17.	Analysis of Ct Value
18.	Interpretation of Result
19.	Molecular Pathology Techniques
20.	Sample decontamination Techniques
21.	Sample Preparation for PCR
22.	DNA/RNA Extraction
23.	Real-time PCR
24.	Analysis of Ct Value
25.	Interpretation of Results
26.	Gel Doc Technique

### Module No: OHL-10

**Module Name:** Advanced Bioinformatics Techniques

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 2 Month) Training Fee 6500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Introduction to Bioinformatics and Overview of Biological Research
2.	Biological Databases and Database Searching
3.	Data Mining and Sequence Retrieval
4.	Motif & Domain Assignment
5.	Protein Threading and Interaction
6.	Pair wise and Multiple Sequence Alignment
7.	Sequence Analysis (BLAST, FASTA, CLUSTALW)
8.	Phylogenetic Analysis
9.	Structure Prediction
10.	Visualization Tools
11.	Other Relevant Confirmatory Tools
12.	Homology Modeling
13.	Drug Designing, Disease Identification

14.	Responsible Gene Ontology
15.	Coding Protein Identification
16.	Protein Structure Finding
17.	Active Site Prediction
18.	Chemical and Drug Database
19.	Chemo-informatics
20.	Docking
21.	Toxicity Prediction with Lipinski Rule of Five
22.	Relevant Software and Tools

### **Module No: OHL-11**

**Module Name:** Project/Dissertation

**Eligibility Criteria:** BSc, MSc, B.Tech, M.Tech (Biotechnology, Microbiology, Biochemistry, Molecular biology, and other related fields of life sciences.

**Techniques Details:** (For Duration of 3 Month) Training Fee 9500 INR + 500 INR for Registration)

**Techniques Details:** (For Duration of 6 Month) Training Fee 18000 INR + 500 INR for Registration)

<b>S. No.</b>	<b>Area of Expertise</b>
1.	Serology
2.	Molecular Bacteriology
3.	Molecular Virology
4.	Biochemistry
5.	Bioinformatics
6.	Quality Assurance

### **Module No: OHM-01**

**Module Name:** Basic Laboratory Techniques

**Eligibility Criteria:** BSc/MSc Medical Lab Technology, Diploma in MLT, & 10+2 with Biological Science subject.

**Techniques Details:** (For Duration of 10 Days) Training Fee 1000 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working Flow of Laboratory
2.	Sample collection & Barcoding
3.	Types of Samples & Sample preparation (Plasma & Serum)
4.	Advance Biochemical-immunological testing on automated and semi-automated platform.
5.	Coagulation profile, coagulation factor assays
6.	Complete Blood Count & ESR
7.	Peripheral blood smear preparation
8.	Staining Methods
9.	Lateral flow Based Method
10.	ELISA Method

### Module No: OHM-02

**Module Name:** Advanced Laboratory Techniques

**Eligibility Criteria:** BSc/MSc Medical Lab Technology, Diploma in MLT, & 10+2 with Biological Science subject.

**Techniques Details:** (For Duration of 15 Days) Training Fee 1500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working Flow of Laboratory
2.	Sample collection & Barcoding
3.	Types of Samples & Sample preparation (Plasma & Serum)
4.	Advance Biochemical-immunological testing on automated and semi-automated platform.
5.	Coagulation profile, coagulation factor assays
6.	Complete Blood Count & ESR
7.	Peripheral blood smear preparation
8.	Staining Methods & Microscopic Examination
9.	Lateral flow Based Method
10.	ELISA Method
11.	Microbial Sample Processing
12.	Media preparation
13.	Plating Methods
14.	Culture Techniques (both automated and manual)

**Module No: OHM-03****Module Name:** Most Advanced Laboratory Techniques**Eligibility Criteria:** BSc/MSc Medical Lab Technology, Diploma in MLT, & 10+2 with Biological Science subject.**Techniques Details:** (For Duration of 1 Month) Training Fee 2500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working Flow of Laboratory
2.	Sample collection & Barcoding
3.	Types of Samples & Sample preparation (Plasma & Serum)
4.	Advance Biochemical-immunological testing on automated and semi-automated platform.
5.	Coagulation profile, coagulation factor assays
6.	Complete Blood Count & ESR
7.	Peripheral blood smear preparation
8.	Staining Methods & Microscopic Examination
9.	Lateral flow Based Method
10.	ELISA Method
11.	Microbial Sample Processing
12.	Media preparation
13.	Plating Methods
14.	Culture Techniques (both automated and manual)
15.	Molecular Pathology Techniques
16.	Sample decontamination Techniques
17.	Sample Preparation for PCR
18.	DNA/RNA Extraction
19.	Real-time PCR
20.	Analysis of Ct Value
21.	Interpretation of Result
22.	Check efficiency of PCR
23.	Immunoassay Techniques
24.	Protein Electrophoresis
25.	Gel Electrophoresis

**Module No: OHM-04****Module Name:** Hands-On Basic Laboratory Techniques**Eligibility Criteria:** BSc/MSc Medical Lab Technology, Diploma in MLT, & 10+2 with Biological Science subject.**Techniques Details:** (For Duration of 2 Months) Training Fee 5000 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working Flow of Laboratory
2.	Sample collection & Barcoding
3.	Types of Samples & Sample preparation (Plasma & Serum)
4.	Advance Biochemical-immunological testing on automated and semi-automated platform.
5.	Coagulation profile, coagulation factor assays
6.	Complete Blood Count & ESR
7.	Peripheral blood smear preparation
8.	Staining Methods & Microscopic Examination
9.	Lateral flow Based Method
10.	ELISA Method
11.	Microbial Sample Processing
12.	Media preparation
13.	Plating Methods
14.	Culture Techniques (both automated and manual)
15.	Molecular Pathology Techniques
16.	Sample decontamination Techniques
17.	Sample Preparation for PCR
18.	DNA/RNA Extraction
19.	Real-time PCR
20.	Analysis of Ct Value
21.	Interpretation of Result
22.	Check efficiency of PCR
23.	Immunoassay Techniques
24.	Protein Electrophoresis
25.	Gel Electrophoresis

26.	Conventional PCR
27.	Agarose Gel Preparation
28.	Gel Loading
29.	Interpretation of Gel result
30.	Gel Doc Technique

### Module No: OHM-05

**Module Name:** Hands-On Basic Laboratory Techniques

**Eligibility Criteria:** BSc/MSc Medical Lab Technology, Diploma in MLT, & 10+2 with Biological Science subject.

**Techniques Details:** (For Duration of 3 Months) Training Fee 7500 INR + 500 INR for Registration)

S. No.	Techniques
1.	Working Flow of Laboratory
2.	Sample collection & Barcoding
3.	Types of Samples & Sample preparation (Plasma & Serum)
4.	Advance Biochemical-immunological testing on automated and semi-automated platform.
5.	Coagulation profile, coagulation factor assays
6.	Complete Blood Count & ESR
7.	Peripheral blood smear preparation
8.	Staining Methods & Microscopic Examination
9.	Lateral flow Based Method
10.	ELISA Method
11.	Microbial Sample Processing
12.	Media preparation
13.	Plating Methods
14.	Culture Techniques (both automated and manual)
15.	Molecular Pathology Techniques
16.	Sample decontamination Techniques
17.	Sample Preparation for PCR
18.	DNA/RNA Extraction
19.	Real-time PCR
20.	Analysis of Ct Value

21.	Copy No. Calculation
22.	Interpretation of Result
23.	Check efficiency of PCR
24.	Immunoassay Techniques
25.	Protein Electrophoresis
26.	Gel Electrophoresis
27.	Conventional PCR
28.	Agarose Gel Preparation
29.	Gel Loading
30.	Interpretation of Gel result
31.	Gel Doc Technique
32.	Glimpse on Laboratory Information System
33.	Result Entry on LIS
34.	Final Reporting

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