

**Internship Logbook**  
**Master of Science in Microbiology**  
**MB 653 Public Health Microbiology**



Central Department of Microbiology  
Institute of Science and Technology  
Tribhuvan University  
Kirtipur, Kathmandu, Nepal

Name of the intern:

TU Registration No.:

Date of entry into internship:

## **Student Details**

Name of the student (Intern):

TU Registration No.

Batch No. /Year:

Date of Entry into Internship:

Name of Preceptor:

Name of University/Campus/College Supervisor:

Title of Thesis:

Scheduled date of Final Examination:

## **Guidelines for the student (intern)**

The Logbook provides a record of the laboratory experience and academic and educational activities of the student. It also helps the trainer to identify the deficiency in any aspect of the internship so that it can be rectified in time. It is an important document which will be required and evaluated during the final examination of the student.

All students are supposed to maintain the logbook for the whole period of their internship and keep a timely record of the,

- a. Laboratory experience
- b. Experience of public health management by district health system
- c. Academic activities
- d. Research experience and publications

**Entries in the logbook:** The intern is advised to make the required entries in the logbook along with the signature of the Immediate Supervisor (Unit Chief) involved on the day of the event. The Immediate Supervisor based on the host institution should sign all entries within 2 to 4 weeks and/or before the intern leaves the unit. The Preceptor (Head of the host institution) of the intern should sign all entries within at a month. Similarly, the University/Campus/College Supervisor and Head of Department of Microbiology should respectively sign the logbook on weekly and monthly basis so that they know the status of work of the student.

**Continuous assessment of the intern:** The intern will be assessed continuously by the unit she/he is posted. The criteria of the formative assessment are given in the logbook for the knowledge and improvement of the intern.

**Leave and Absence Record:** All leave and absence of the intern should be entered in the attendance register and the logbook and duly signed by the Supervisor and later by the Preceptor

**Submission of the logbook:** The logbook has to be submitted in the final examination, where it will be discussed and evaluated. All the submitted logbooks have to be reviewed and evaluated by the respective committee at University/Campus/College. Marks obtained out of total 200 from term assessment by the supervisors, laboratory experience, academic and educational activities of the intern will be added to the final assessment.

I hereby affirm that I have read the guidelines and will abide by them during the whole period of my internship.

**Signature of the intern**



## Record of Posting Schedule

| <b>Unit</b>                          | <b>From</b> | <b>To</b> | <b>Duration</b> | <b>Page No.</b> | <b>Supervisor's signature</b> |
|--------------------------------------|-------------|-----------|-----------------|-----------------|-------------------------------|
| <b>District Public/Health Office</b> |             |           |                 |                 |                               |
| <b>Bacteriology</b>                  |             |           |                 |                 |                               |
| <b>Virology</b>                      |             |           |                 |                 |                               |
| <b>Parasitology</b>                  |             |           |                 |                 |                               |
| <b>Immunology/Serology</b>           |             |           |                 |                 |                               |
| <b>Mycology</b>                      |             |           |                 |                 |                               |

## 1. District Public/Health Office

| SN | Activities  | Tests performed | Number |
|----|---|-----------------|--------|
| 1  | Observe and record the different units of District Public/Health Programmes   |                 |        |
| 2  | Understand the health system of Nepal and level of laboratory facilities and disease diagnosis in different levels of health facilities |                 |        |
| 3  | Observe and record activities of vector borne disease control unit  |                 |        |
| 4  | Observe and record activities of tuberculosis/leprosy disease control unit  |                 |        |
| 5  | Observe and record activities of HIV/AIDS control unit  |                 |        |
| 6  | HMIS and EWARRS forms and reporting system  |                 |        |

## 2. Bacteriology

| SN | Laboratory procedures  | Tests performed | Number |
|----|--|-----------------|--------|
| 1  | Urine microscopy, culture and AST  |                 |        |
| 2  | Stool culture and AST  |                 |        |
| 3  | Blood culture and AST  |                 |        |
| 4  | CSF microscopy, protein & sugar estimation, culture and AST  |                 |        |
| 5  | Pleural and other body fluid microscopy, culture and AST   |                 |        |
| 6  | Sputum microscopy, culture and AST   |                 |        |
| 7  | Pus microscopy, culture and AST  |                 |        |
| 8  | AST <ul style="list-style-type: none"> <li>a. Disc diffusion</li> <li>b. Dilution</li> <li>c. Disc diffusion + Dilution</li> </ul> |                 |        |

AST- Antibiotic Susceptibility Testing

### 3. Virology

| <b>SN</b> | <b>Laboratory procedures</b>  | <b>Tests performed</b> | <b>Number</b> |
|-----------|---|------------------------|---------------|
| 1         | Virus culture   |                        |               |
| 2         | Virus identification using PCR  |                        |               |
| 3         | Virus identification using serological assays   |                        |               |
| 4         | Handling specimens for diagnosis of viral infections from <ul style="list-style-type: none"><li>a. Respiratory tract infections</li><li>b. Gastrointestinal infections</li><li>c. CNS infections</li><li>d. Sexually transmitted infections</li></ul> |                        |               |

### 4. Parasitology

| <b>SN</b> | <b>Laboratory procedures</b>  | <b>Tests Performed</b> | <b>Number</b> |
|-----------|---|------------------------|---------------|
| 1         | Handling of stool for detection of intestinal parasites   |                        |               |
| 2         | Microscopic examination of stool samples  |                        |               |
| 3         | Stool concentration methods   |                        |               |
| 4         | Detection of parasites from <ul style="list-style-type: none"><li>- Blood</li><li>- Tissue</li><li>- Body fluids</li></ul>  |                        |               |
| 5         | Using modern diagnostic techniques for the diagnosis of parasitic infections: <ul style="list-style-type: none"><li>- Molecular test (PCR)</li><li>- ICT card</li><li>- ELISA</li></ul> |                        |               |

## 5. Immunology/Serology

| SN | Laboratory procedures  | Tests Performed | Number |
|----|--|-----------------|--------|
| 1  | ELISA  |                 |        |
| 2  | RIA  |                 |        |
| 3  | Agglutination/<br>Haemagglutination                            |                 |        |
| 4  | Precipitation  |                 |        |
| 5  | Rapid<br>Immunochromatographic<br>tests                        |                 |        |
| 6  | Immunofluorescent test   |                 |        |
| 7  | Detection of antibody titre<br>- VDRL/TPHA<br>- WIDAL<br>- ASO |                 |        |

## 6. Mycology

| SN | Laboratory procedures   | Tests Performed | Number |
|----|---|-----------------|--------|
| 1  | Examination of specimens<br>for microscopic diagnosis<br>of Fungal organisms using<br>- Lactophenol cotton<br>blue<br>- KOH preparation |                 |        |
| 2  | Microscopy and culture of<br>hair, nail and skin<br>scrapings   |                 |        |
| 3  | Fungal Identification tests<br>- Sugar Fermentation<br>- Serological tests<br>- Molecular tests   |                 |        |





## Term Assessment Sheet (Confidential)

Name of the intern:  
Registration number:  
Unit of posting;  
Date of posting:  
Marking: Excellent/Good/Satisfactory/Poor

| SN | Attributes/Discipline  | Marks<br>Obtained | Comments (if any) |
|----|--|-------------------|-------------------|
| 1  | Punctuality (Attendance)                                     |                   |                   |
| 2  | Discipline   |                   |                   |
| 3  | Confidence/ Decision making                                  |                   |                   |
| 4  | Knowledge of theory  |                   |                   |
| 5  | Practical skills   |                   |                   |
| 6  | Writing work (filling up lab records)                        |                   |                   |
| 7  | Communication with colleagues, staff, patients and relations |                   |                   |
| 8  | Leadership quality   |                   |                   |

### OVERALL PERFORMANCE:

|  |                    |                                  |                  |
|--|--------------------|----------------------------------|------------------|
| .....<br>University/Campus/College<br>Department<br>Supervisor | .....<br>Preceptor | .....<br>Immediate<br>Supervisor | .....<br>Head of |
|--|--------------------|----------------------------------|------------------|

#### NOTE:

- This confidential evaluation needs to be done by the University/Campus/College supervisor in collaboration with the supervisor and preceptor of the host institute.

















## Research Experience and Publications

### Projects

| Title | Results |
|-------|---------|
|       |         |
|       |         |
|       |         |
|       |         |
|       |         |

### Publications

| Title | Authors | Details of Publication |
|-------|---------|------------------------|
|       |         |                        |
|       |         |                        |
|       |         |                        |
|       |         |                        |
|       |         |                        |
|       |         |                        |

**Preceptor's Remarks:**

**Awards and Honors**