

B.Pharm Practical Notes

Semester 08

FirstHope

2 practical topics and guides, arranged by subject.

Project Work

1 topics

Industrial Tour

1 topics

How to Use These Notes

- Read the aim and principle before the practical.
- Record the actual findings or the provided simulation data.
- Use the calculations with the correct units and stated model.
- Review the precautions and viva questions after completing the record.

Contents

Select “Click here” beside a topic to open that practical.

Project Work

01. Elective Project Work - Planning and Report Guide	3	<u>Click here</u>
---	---	-----------------------------------

Industrial Tour

01. Industrial Tour - Observation and Report Guide	7	<u>Click here</u>
--	---	-----------------------------------

Elective Project Work - Planning and Report Guide

Guide 01 | Project Work

Aim

To plan an elective-related supervised project and prepare a clearly arranged report of the work actually completed.

Principle

- The project relates directly to one elective selected in Semester 8 and is supervised by a teacher. A group must not exceed five students. The typed, bound report is submitted in triplicate and contains at least 25 pages.
- A training or project report links the stated objective to documented activity, observations and conclusions.
- Report only work actually completed and protect confidential institutional and patient information.
- Use a group of no more than five students and identify each member's contribution.
- The report minimum of 25 pages is different from the Practice School report maximum of 25 pages.

Materials and Apparatus

- Approved elective, supervising teacher, project plan, permitted datasets/material and dated progress records.
- Supervisor-approved plan, institutional instructions, observation log and permitted supporting records.
- Report-writing software and a dated activity log.

Method

1. Select a focused project question directly related to the chosen elective.
2. Agree the scope, group roles, methods and deliverables with the supervising teacher.
3. Plan a realistic timeline and identify the resources and permissions required.
4. Perform the approved work and keep dated records of methods, changes and observations.
5. Analyze the actual results with methods suited to the project question.
6. Prepare the typed report, review it with the supervisor and submit the required three bound copies.

Choosing a Project

Focused question

State the selected elective, the concrete problem and the outcome to be measured or evaluated. Keep the objective narrow enough for the available time and facilities.

Suitable approaches

An approved project may evaluate a formulation, analytical dataset, pharmacy-service workflow, software tool or other elective-related question. The method must fit the objective.

Feasibility

Check access to equipment/data, the required supervisor expertise, available time and the permissions relevant to the actual planned work.

Planning and Recording

Team roles

Allocate responsibilities for planning, activity records, data quality, analysis and report preparation. Maintain a contribution log for every group member.

Method plan

Define materials or data sources, variables, comparison/control, measured endpoints and the proposed analysis before collecting results.

Progress milestones

Use an approved sequence such as objective approval, method review, work/data collection, analysis, first report draft and supervisor review.

Data integrity

Retain raw observations and versions of analysis files. Record missing values and deviations; distinguish measured, simulated and calculated values.

Suggested Report Arrangement

Opening pages

Title, student/group and supervisor details, institution, declarations/certificates required by the institution, acknowledgement, abstract and contents.

Introduction and objective

Explain the problem and project context in your own words. State the selected elective, focused objective and scope.

Methods

Describe the approved work clearly enough for a reader to understand the materials/data, measurements, comparison and analysis. Include only methods actually used.

Results

Present actual observations in numbered tables or figures with units and meaningful labels. Keep calculated examples separate from project measurements.

Discussion

Explain what the results mean for the objective, compare alternative explanations and state relevant limitations.

Conclusion and annexures

Answer the objective without extending beyond the evidence. Add permitted supporting records, calculation details and contribution/progress logs as needed.

Preparing Tables and Figures

Tables

Use one informative title, clear column labels, consistent units and appropriate precision. State the number of observations and the definition of any summary statistic.

Figures

Label both axes, include units and explain each series. Avoid decorative effects that obscure comparison. Show uncertainty only when it has been calculated appropriately.

Calculations

Show the equation, input values, unit conversions and result. A software output still requires an explanation of the chosen model and assumptions.

Submission and Presentation

Report check

Confirm direct relation to the chosen elective, teacher supervision, group size of five or fewer, at least 25 typed pages and three bound copies.

Oral presentation

Explain the objective, method, main finding, limitations and each member's contribution. Prepare to justify the measurement and analysis choices.

Final review

Check consistency between objectives, tables, abstract and conclusion. Verify readable figures, page sequence and the institution's prescribed approvals/signatures.

Observation Record

Complete this record using actual laboratory findings or the provided teaching data.

Observation / parameter	Record / finding
Objective	_____
Activity/date	_____
Group contribution	_____
Evidence/result	_____
Supervisor feedback	_____

Calculations and Interpretation

- Report the calculations relevant to the approved project and retain their units, raw data and assumptions.
- Do not create a result merely to fill the minimum report length.

Result

Present the completed activity log, learning outcomes and report prepared from actual work, with the required supervisor confirmation.

Finding: _____

Conclusion: _____

Precautions

- Use actual attendance and findings rather than invented completion records.
- Obtain permission for institutional material and remove identifying patient details.
- Verify the submission requirements in the supplied course instructions and the institution.

Viva Questions

1. What connects the project conclusion to the objective?

The conclusion answers the original question using the documented work and actual results, with relevant limitations stated.

2. What makes a report reproducible?

A clear objective, documented method, traceable observations and a conclusion supported by those observations.

3. Why distinguish observation from interpretation?

The reader needs to know which statements are directly recorded and which are reasoned explanations.

Industrial Tour - Observation and Report Guide

Guide 01 | Industrial Tour

Aim

To document the visit and explain the functions and coordination of the establishment in a properly arranged report.

Principle

- The activity covers an industrial establishment or an approved research laboratory. The report explains its sections, functioning, products or research activities, approvals and coordination, using observations from the actual visit.
- A training or project report links the stated objective to documented activity, observations and conclusions.
- Report only work actually completed and protect confidential institutional and patient information.
- The industrial tour may take place at the end of Semester 7.

Materials and Apparatus

- Approved itinerary or training plan, site supervisor, permitted process diagrams and a dated activity log.
- Supervisor-approved plan, institutional instructions, observation log and permitted supporting records.
- Report-writing software and a dated activity log.

Method

1. Confirm the approved establishment, supervisor and scope of the visit.
2. Prepare a department-wise observation sheet before attending.
3. Record the role of each section and how materials, information or work move between departments.
4. Identify the product range or research areas and the approvals explained by the host.
5. Document examples of quality checks, interdisciplinary coordination and contribution to society where observed.
6. Write a structured report and have factual or confidential material checked before submission.

Industry Observation Areas

Material receipt and stores

Observe receipt, identification, quarantine/release status and storage controls without reproducing confidential inventory data.

Production and packaging

Trace the broad sequence from approved materials through processing, in-process checks, packaging and reconciliation.

Quality control and quality assurance

Distinguish testing activities from quality-system oversight. Record the demonstrations of documentation, deviations, change control or release explained by the host.

Utilities and support

Identify the purpose of water, air-handling, maintenance, safety and waste-management services actually shown.

Products and approvals

Describe the permitted product categories, dosage forms and approvals named by the host. Preserve the exact approved scope rather than inferring unobserved capabilities.

Research Laboratory Observation Areas

Departments and coordination

Describe each department visited and the movement of research questions, specimens or analytical information between them.

Research contribution

Record the research themes, services, training or public benefits explained by the host. Separate completed achievements from future plans.

Report Arrangement

Opening pages

Title, student and institution details, establishment, visit/training dates, acknowledgement and contents.

Main report

Introduction, objectives, establishment overview, department-wise observations, permitted process flow, approvals explained and learning outcomes.

Closing pages

Discussion of coordination, conclusion, permitted annexures and the attendance or host confirmation requested by the institution.

Submission Check

Final review

Use actual observations, consistent dates and clearly labelled figures. Exclude trade secrets and restricted documents. Check the institution's required format and copies.

Observation Record

Complete this record using actual laboratory findings or the provided teaching data.

Observation / parameter	Record / finding
Date	_____
Section visited	_____
Function observed	_____
Permitted evidence	_____
Learning outcome	_____

Calculations and Interpretation

- Summarize the actual dates and activities. The supplied course description does not prescribe a 45-day or 150-hour duration for this activity.

Result

Present the completed activity log, learning outcomes and report prepared from actual work, with the required supervisor confirmation.

Finding: _____

Conclusion: _____

Precautions

- Use actual attendance and findings rather than invented completion records.
- Obtain permission for institutional material and remove identifying patient details.
- Verify the submission requirements in the supplied course instructions and the institution.

Viva Questions

1. How does a site report differ from a general description of an industry?

It records the departments actually visited and ties each explanation to dated observations from that establishment.

2. What makes a report reproducible?

A clear objective, documented method, traceable observations and a conclusion supported by those observations.

3. Why distinguish observation from interpretation?

The reader needs to know which statements are directly recorded and which are reasoned explanations.

Continue Learning with FirstHope

Complete Notes on the FirstHope App

Complete subject and semesters are available on FirstHope app only.

- Get complete subject and semester notes in the FirstHope app.
- Available for B.Pharm, D.Pharm, M.Pharm and Pharm.D students.

[Click here to get the FirstHope app](#)

Join the FirstHope Telegram Channel

Join FirstHope Notes and keep up with channel updates.

[Click here to join Telegram](#)

Instagram

@firsthope.official

[Click here to follow Instagram](#)

YouTube Channel

FirstHope-Pharmacy / Live streams

[Click here to watch the YouTube channel](#)

WhatsApp Channel

Follow FirstHope on WhatsApp.

[Click here to join the WhatsApp channel](#)

FirstHope Website

firsthopenotes.com

[Click here to visit the website](#)