



FACULTY OF HEALTH SCIENCES AND SPORTS
BACHELOR OF SCIENCE IN BIOMEDICAL TECHNOLOGY (PHARMACY TECHNOLOGY)
LEARNING MODULE OUTLINE

| | | | |
|-----------------------|--|---------------|-------------------|
| Academic Year | 2024 / 2025 | Semester | 1 & 2 |
| Module Code | BSIP4101-411 BSIP4102-421 | | |
| Learning Module | Internship I & II | | |
| Pre-requisite(s) | Pharmaceutical Analysis, Pharmaceutics, Pharmacy Laws, Pharmacy Practice II, Pharmacy Practice III, Clinical Pharmacy I, Clinical Pharmacy II. | | |
| Medium of Instruction | Chinese / English | | |
| Credits | 5 + 5 | Contact Hours | 500 + 500 |
| Instructor | Kuok Chiu Fai | Email | cfkuok@mpu.edu.mo |
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MODULE DESCRIPTION

This learning module is comprised of Internship I and Internship II. Students will acquire practical knowledge and hands-on experience in different areas of pharmacy practice. The total number of hours in Internship I (BSIP4101-411) and Internship II (BSIP4102-421) is 1000 hours in total. Internship I (500 hours) and Internship II (500 hours) will be fulfilled by half of the requirements specified in the following 1000 hours rotation, including hospital pharmacy, health centre pharmacy, community pharmacy, elderly home pharmacy, pharmaceutical affair department of government, pharmaceutical and health products related industries. Students are training under the instruction of internship supervisors.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

On completion of this learning module, students will be able to:

| | |
|-----|---|
| M1. | Enhance students' technical skills, confidence and personal relationships. |
| M2. | Work efficiently and safely in pharmacy professionals and apply necessary measures for safe practice. |

These ILOs aim to enable students to attain the following Programme Intended Learning Outcomes (PILOs):

| PILOs | M1 | M2 | M3 | M4 | M5 | M6 |
|--|----|----|----|----|----|----|
| P1. To demonstrate understanding of a range of subjects, fields, principles and approaches relevant to pharmacy technology | ✓ | ✓ | | | | |
| P2. To demonstrate understanding of theories, analytical approaches and practices that underpin pharmacy operations and management | ✓ | ✓ | | | | |
| P3. To demonstrate understanding of major trends and issues related to pharmacy technology | ✓ | ✓ | | | | |



| | | | | | | |
|--|---|---|--|--|--|--|
| P4. To apply professional knowledge and skills to analyse, interpret and solve problems, challenges and risks in pharmacy practice | ✓ | ✓ | | | | |
| P5. To critically appraise and interpret scientific and clinical literature and apply evidence-based practice | ✓ | ✓ | | | | |
| P6. To acquire and apply research skills in pharmacy technology | ✓ | ✓ | | | | |
| P7. To demonstrate effective communication and teamwork skills | ✓ | ✓ | | | | |
| P8. To maintain professional and ethical standards in pharmacy practice and research | ✓ | ✓ | | | | |

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

| Week | Content Coverage | Contact Hours |
|------|--|---------------|
| 6 | Pharmacy practice in public hospital | 192 |
| 6 | Pharmacy practice in private hospital | 192 |
| 6 | Community pharmacy practice | 192 |
| 4 | Pharmacy practice in public health centre | 128 |
| 4 | Pharmacy practice in pharmaceutical affair department of government | 128 |
| 3 | Pharmacy practice in Elderly home | 96 |
| 3 | Pharmacy practice in pharmaceutical and health products related industries | 96 |

TEACHING AND LEARNING ACTIVITIES

In this learning module, students will work towards attaining the ILOs through the following teaching and learning activities:

| Teaching and Learning Activities | M1 | M2 | M3 | M4 | M5 | M6 |
|------------------------------------|----|----|----|----|----|----|
| T1. Background knowledge education | ✓ | ✓ | | | | |
| T2. Operational education | ✓ | ✓ | | | | |
| T3. Assignments | ✓ | ✓ | | | | |
| T4. Skill examination | ✓ | ✓ | | | | |

ATTENDANCE

Attendance requirements are governed by the Academic Regulations Governing Bachelor's Degree Programmes of the Macao Polytechnic University. Students who do not meet the attendance requirements for the learning module shall be awarded an 'F' grade.



ASSESSMENT

In this learning module, students are required to complete the following assessment activities:

| Assessment Activities | Weighting (%) | ILOs to be Assessed |
|-------------------------------------|---------------|---------------------|
| A1. On-site progressive assessments | 90 | M1, M2 |
| A2. Follow-up assessments | 10 | M1, M2 |

This learning module is graded on a 100 point scale, with 100 being the highest possible score and 50 being the passing score.

There will be no resit examination for this module.

The assessment will be conducted following the University's Assessment Strategy (see www.mpu.edu.mo/teaching_learning/en/assessment_strategy.php). Passing this learning module indicates that students will have attained the ILOs of this learning module and thus acquired its credits.

MARKING SCHEME

| Assessment Activities | Assessment Criteria | Mark Ranges | | | | |
|-----------------------|--|-------------|-----------------------|--------------|------------------|------------------------------------|
| | | 88-100 | 73-87 | 58-72 | 50-57 | <50 |
| A1. | Demonstrate the ability to apply appropriate professional knowledge and skills during internship training | Excellent | Good/ Very Good | Satisfactory | Marginal Pass | Fail; not reaching marginal levels |
| A2. | Demonstrate the active learning attitude and the ability to identify and reflection on their internship training | Excellent | Good/ Very Good | Satisfactory | Marginal Pass | Fail; not reaching marginal levels |

REQUIRED READINGS

Indicated by internship sites.

REFERENCES

Chinese Pharmacopeia.

British Pharmacopeia.

US Pharmacopeia.

Macao Decree-Laws and Macau S.A.R. Laws.

Related textbooks to pharmaceutical sciences.



STUDENT FEEDBACK

At the end of every semester, students are invited to provide feedback on the learning module and the teaching arrangement through questionnaires. Your feedback is valuable for instructors to enhance the module and its delivery for future students. The instructor and programme coordinators will consider all feedback and respond with actions formally in the annual programme review.

ACADEMIC INTEGRITY

The Macao Polytechnic University requires students to have full commitment to academic integrity when engaging in research and academic activities. Violations of academic integrity, which include but are not limited to plagiarism, collusion, fabrication or falsification, repeated use of assignments and cheating in examinations, are considered as serious academic offenses and may lead to disciplinary actions. Students should read the relevant regulations and guidelines in the Student Handbook which is distributed upon the admission into the University, a copy of which can also be found at www.mpu.edu.mo/student_handbook/.