



Dr. Cho Cho Min
B.Sc, DPMS (Pharmacy), BPharm, MPharm,
PhD (Pharmaceutical Chemistry)
DipMedEdu
Professor and Head

1. Pharmacist, Psychiatric Hospital, Yangon 1987-1996
2. Demonstrator, Pharmacology Department 1996-2003
University of Pharmacy, Yangon
3. Assistant Lecturer, University of Pharmacy, Yangon 2003-2007
4. Lecturer and Head, Pharmaceutical Chemistry Department 2007-2010
University of Pharmacy, Mandalay
5. Lecturer and Head, Pharmaceutical Chemistry Department 2010-2016
University of Pharmacy, Yangon
6. Associate Professor and Head, Pharmaceutical Chemistry 2016-2019
Department, University of Pharmacy, Yangon
7. Professor and Head, Pharmaceutical Chemistry Department 2019-present
University of Pharmacy, Mandalay

The department of Pharmaceutical Chemistry was established by Daw Mar Mar Swe, Assistant Lecturer, Institute of Pharmacy, Mandalay in 2001. She was Head of the Department from 2001 to 2004. From 2007 to 2010, Daw Cho Cho Min, Lecturer headed the department that has six tutors and three laboratory staffs. From 2010 to 2019, the departmental head is Daw Mar Mar Swe, Lecturer (2010 to 2015) and Associate Professor (2015 to 2019). From 2019 to present, departmental head is Daw Cho Cho Min, Professor (2019 to present).

Firstly, the Institute of Pharmacy was located at 73rd street, between 30th and 32nd streets, Mandalay from 2000 to 2001. Then the institute was moved to the place at 35th street, between 64th and 65th streets, Mandalay in June, 2001. At that time, there were two tutors and one laboratory staff in the department of Pharmaceutical Chemistry. In May 2004, the institute was moved again to the present place near the Taw twin Village on the Htone Bo – Myit Nge Road in Amarapura Township, Mandalay.

Pharmaceutical Chemistry subject has been teaching to second year students, third year students and fourth year students. In 2013, Master of Pharmacy (M.Pharm.) program was started in the University of Pharmacy, Mandalay. Then, the Master of Pharmacy (M.Pharm.) program was upgraded into the specialized course of Master of Pharmaceutical Chemistry [M.Pharm. (Pharmaceutical Chemistry)] in 2018.

Two Ph.D staffs, two Ph.D candidates, five M.Pharm. staffs, four M.Pharm candidates are resources as academic pharmacists in Pharmaceutical Chemistry Department in University of Pharmacy, Mandalay.

The organization of department of Pharmaceutical Chemistry was started with one teaching and laboratory staff. Now, there was increased to thirteen academic staffs and five laboratory staffs in the department. In current situation, there has been still needed the resource of academic staff in organizational chart.

For practical section, the required chemical, laboratory apparatus and instruments are obtained by the supporting of government's budget and these are used for routine practical and researches for undergraduate and postgraduate students.

Nowadays, all of B.Pharm, M.Pharm students have been continuously studied the pharmaceutical chemistry subject based on the laboratory apparatus, equipment, instruments, and literature reference books.

The future plan of pharmaceutical chemistry department is to upgrade the laboratory room with modernized instruments. The next plan is to do the research and to present the research paper and poster in local and international pharmaceutical science conference.

Academic Staff



Dr. Cho Cho Min
B.Sc., D.P.M.S (Pharmacy)
B. Pharm., M. Pharm. (Ygn),
Ph.D (Pharmaceutical Chemistry) (Ygn),
Professor and Head



Dr. Nyo Mi Swe
B. Pharm.(Ygn),M.Sc in Pharmacy
(Pharmaceutical Chemistry-Thailand),
Ph.D in Medical and Biopharmaceutical Science
(Medicinal Chemistry-Japan),
Dip in English (MUFL), Dip in Business Law
Associate Professor



Daw Thuzar Thwe
BPharm(Ygn), MPharm(Ygn)
Lecturer



Daw Aye Thida
BPharm(Ygn), MPharm(Ygn)
Lecturer



Daw Phyto Phyto Wai
BPharm (Ygn), MPharm (Ygn)
Lecturer

Daw Phyu Pwint Nyaw Nway Ko
BPharm (Ygn), MPharm (Mdy)
Assistant Lecturer



Daw Kay Thi Aung
BPharm (Ygn), MPharm (Ygn)
Assistant Lecturer



Daw Kay Khaing Myint
BPharm(Mdy)
MPharm(Mdy)
Demonstrator

Daw Ei Sandar Lwin
BPharm (Mdy)
MPharm (Mdy)
Demonstrator



Daw Hnin Ei Ei Khaing
BPharm(Ygn)
Demonstrator



Daw Su Thiri Zin
BPharm (Ygn)
Demonstrator



Daw Myat Thet Khaing
BPharm (Ygn)
Demonstrator



Daw Zar Li Win
BPharm (Ygn)
Demonstrator

Curriculum

Lecture Topics for Second Year, B.Pharm.

Pharmaceutical Inorganic Elements and Compounds, Basic Organic Chemistry, Heterocyclic Chemistry, Stereochemistry, Chemistry of medicinal organic compounds, Polymer and Polymerization, Chemical kinetics and drug stability, Photochemistry and Electrochemistry.

Lecture Topics for Third Year, B.Pharm.

Drug discovery, design and development, Structure-activity relationship (SARs), Drug-receptor interactions, Metabolic changes of drugs and related organic compounds, Local anesthetics, Non-steroidal anti-inflammatory drugs, Opioid analgesics, CNS stimulants and depressants, Anti-histamines and Anti-malarial agents

Solvent extraction analysis techniques, Potentiometry, Refractometry, Polarimetry, Spectrophotometry, Atomic absorption spectrometry and atomic emission spectrometry, Oxygen flask combustion, water determination, Radiochemistry and Radiopharmaceuticals

Lecture Topics for Final Year, B.Pharm.

Antibacterials agent (antibiotics), Antifungal agents, Antiseptics and disinfectants, Antiviral and anti-neoplastic agents, CNS and CVS drugs, diuretics, Anti-hyperglycemic agents, Immunomodulators, Steroids and sex hormones

Infra-red spectrometry (IR), Mass spectrophotometry, Nuclear magnetic resonance Spectroscopy (NMR), Capillary electrophoresis, Thin Layer Chromatography, Liquid Chromatography and Gas Chromatography

Physical properties and stability of water, Carbohydrates, Lipids, Amino acids, peptides and protein, Minerals, Colorants, Food additives, Flavors, Dietary Fiber and Natural food dyes

Learning Resources

- Teaching Method - lecture, discussion, practical, assignment, term-paper
- Teaching Media - handouts & Power Point, white board, Laboratory, Apparatus & Instrument,

Students Assessment

Classwork

- Attendance
- Written tests
- Practical test

Final examination

- One three-hour theory paper
- One two-hour practical paper
- Viva-voce (Candidates with a potential distinction will be invited to appear for an oral examination)

Criteria for passing

- Satisfactory performance in classwork
- Satisfactory performance in final examination