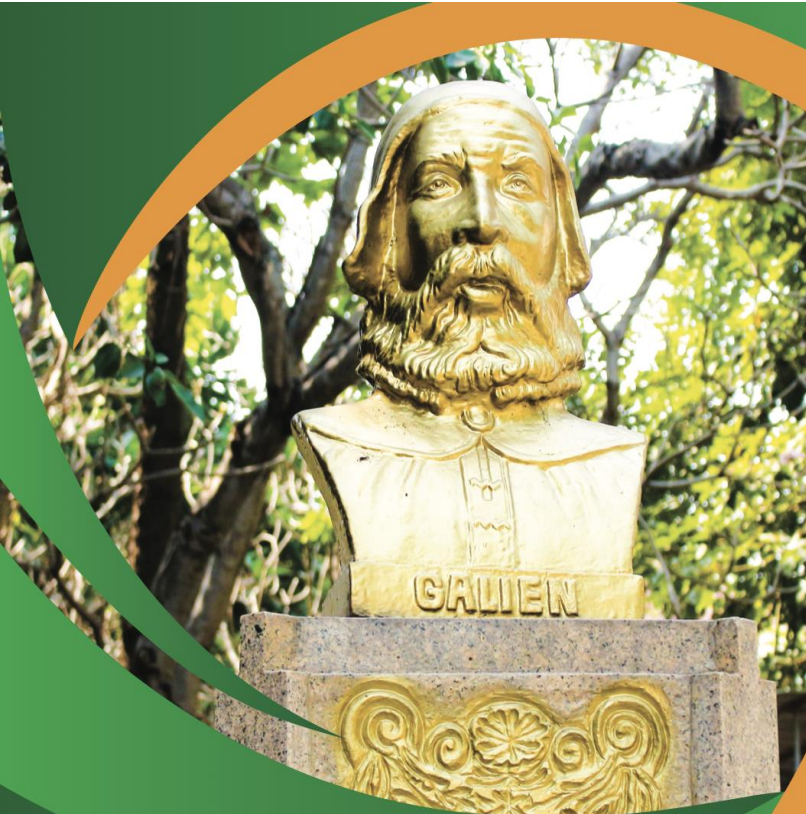




# UNIVERSITY OF MEDICINE AND PHARMACY – HO CHI MINH CITY

## Innovation of pharmacy program in UMP to adapt oneselt to the AUN QA and CIDPHARMEF

Virtual Conference on "Innovation to transform  
pharmacy higher education program"  
30<sup>th</sup> – 31<sup>st</sup> mars 2022



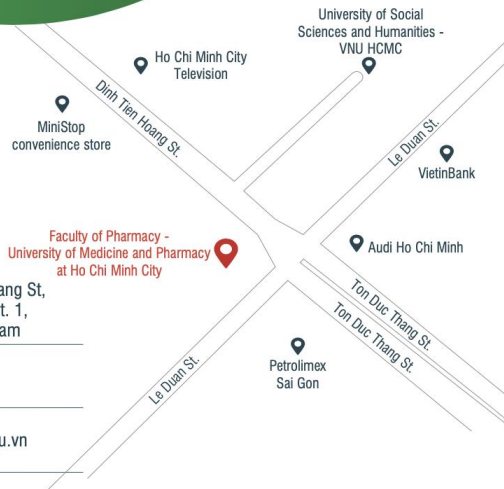


# Content

- Faculty of Pharmacy, UMP
- Program evaluation and assessment
- CIDPHARMEF evaluation
- AUN-QA assessment
- Pharmacy education reform at UMP
- Conclusion



# FACULTY OF PHARMACY, UMP



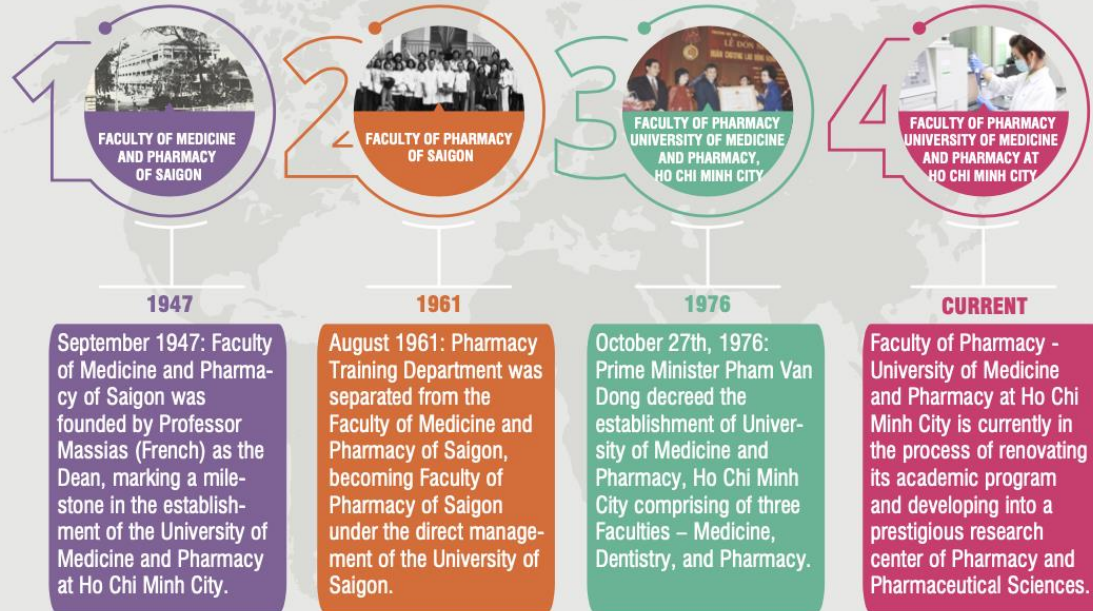
41-43 Dinh Tien Hoang St,  
Ben Nghe Ward, Dist. 1,  
HCMC 70000, Vietnam

+84 28 3829 5641

khoaduoc@ump.edu.vn

pharm.ump.edu.vn

## HISTORY OF FACULTY OF PHARMACY





# FACULTY OF PHARMACY, UMP

Department of  
pharmaceutics,  
physical  
chemistry,  
pharmacology,  
biochemistry

Sport ground

2<sup>nd</sup> gate

Student  
working zone

Department of  
clinical pharmacy,  
botanic,  
pharmaceutical  
administration.

Conference Hall,  
Department of Pharmaceutical  
technology (industrial  
pharmaceutics)



Department of  
organic chemistry,  
pharmacognosy,  
pharmaceutical  
chemistry, drug  
quality control

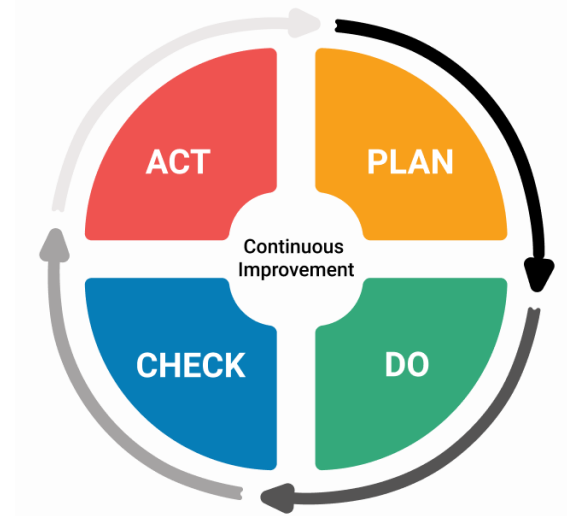
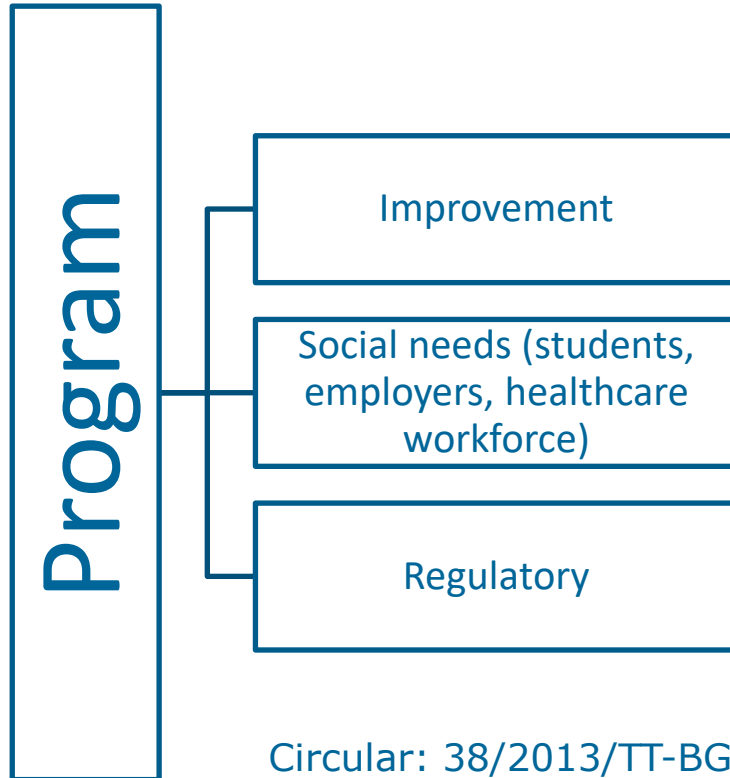
Office of the  
Dean and  
specialized  
reading  
room

Botanic garden

Main  
gate



# PROGRAM EVALUATION AND ASSESSMENT



<https://vietnambiz.vn/chu-trinh-pdca-pdca-cycle-la-gi-cac-giai-doan-trong-chu-trinh-va-y-nghia-20191027163742328.htm>

Circular: 38/2013/TT-BGDĐT, promulgated November 29<sup>th</sup> 2013.



# CIDPHARMEF



CIDPHARMEF (Conférence Internationale des Doyens des Facultés de Pharmacie d'Expression Française): International Conference of Deans of French-speaking Pharmacy Faculties

«The evaluation of the study programs proposed by the CIDPHARMEF makes it possible to verify the adequacy between the needs of society and the training objectives of pharmacists in terms of the professional skills to be acquired in order to meet the changes in the professions in Pharmacy.»  
(<http://cidpharmef.org/article/detail/7>)





# CIDPHARMEF



<b>1<sup>st</sup> evaluation: April 22<sup>th</sup>—24<sup>th</sup> 2014 (with 2 days of pre-visit before this official evaluation)</b>	<b>2<sup>nd</sup> evaluation: December 1<sup>st</sup> – 5<sup>th</sup> 2019 (with 2 days of pre-visit before this official evaluation)</b>
10 criteria, 18 sub-criteria: Mission and Objective of Faculty; Direction, Organisation and Administration; Program curriculum; Students; Staff; Infrastructure; Budget; Research; Continuous Pharmacy Education; International Cooperation	8 criteria, including 25 sub-criteria: Position of Faculty; Mission and Objective of Faculty; Direction, Organisation and Administration; Teaching and Learning; Students; Ressource internal; Continuous Pharmacy Education; International Cooperation

**SWOT evaluation report by CIDPHARMEF commission.**



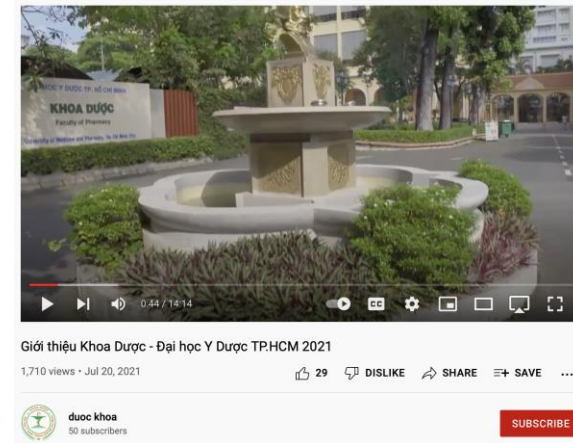
# AUN\_QA



“ASEAN University Network-Quality Assurance (AUN-QA) network for coordinating activities to realise the mission of harmonising educational standards and seeking continuous improvement of academic quality”

(<https://www.aunsec.org/discover-aun/thematic-networks/aun-q>)

**May 24<sup>th</sup>-28<sup>th</sup> 2021: First pharmacy education program assessment in VietNam.**



[https://www.youtube.com/watch?v=r\\_8uKIYRK8](https://www.youtube.com/watch?v=r_8uKIYRK8)





# RECOMMENDATIONS

## Recommendations

Program Curriculum	Internship	Teaching and learning
<ul style="list-style-type: none"><li>- Clarify the expected learning outcome, the role of pharmacist.</li><li>- Interprofessional courses</li><li>- Specialized content in the 5<sup>th</sup> year to cover all professional outlets</li></ul>	<ul style="list-style-type: none"><li>- Activities during internship</li><li>- Duration of internships too short;</li><li>- Too many interns in industrial sites for internships</li><li>- Absence of an evaluation grid for trainees</li><li>- Absence of internships in hospital clinical services.</li></ul>	<ul style="list-style-type: none"><li>- Elearning</li><li>- Diversity of teaching and learning methods</li><li>- Lack of feedback on assessments</li></ul>



# EXPECTED LEARNING OUTCOMES

UNIVERSITY OF MEDICINE  
AND PHARMACY  
AT HO CHI MINH CITY  
FACULTY OF PHARMACY

SOCIALIST REPUBLIC OF VIETNAM  
Independence - Freedom - Happiness

No 1915/QĐ-ĐHYD-ĐT

*Ho Chi Minh City, June 29<sup>th</sup> 2016*

## DECISION

**The promulgation of Expected Learning Outcomes (ELO)  
of the main undergraduate education programs of  
University of Medicine and Pharmacy at Ho Chi Minh city**

### 1. Required knowledge:

#### 1.1. General professional knowledge:

- Know and apply necessary knowledge of basic science and basic medicine to serve pharmaceutical expertise.
- Basic understanding of the pharmaceutical sciences in general and have strong basic expertise relevant to the organization and good practice in the fields of manufacturing, testing, storage, distribution and private problems on the use of drugs, functional foods, and cosmetics.
- Provide professional guidance and advice to other members
- Drug information and participation in community education about drugs
- Understand and apply legal documents related to the pharmaceutical industry.
- Understanding of medical organizations, organizational models and state management of pharmacy; company models, drug production and trading; Model of drug quality management related to professional activities:

June 29<sup>th</sup> 2016: First issued of  
“Expected Learning Outcomes”.

January 30<sup>th</sup> 2018 : Draft of 2<sup>nd</sup>  
Expected Learning outcomes,  
Workshop on Expected Learning  
outcomes of Faculty of Pharmacy.



# EXPECTED LEARNING OUTCOMES

21<sup>st</sup> May 2018: Second version of Expected Learning outcomes (Including 29 ELOs), Annual workshop on improvement of education quality of Faculty of Pharmacy

## SUMMARY SURVEY OF EMPLOYERS ABOUT PHARMACY'S ELOS May-2018

Number of surveys: 20 employers (pharmaceutical companies, hospital, research institutions)

Selection conditions: employ pharmacists graduated from UMP in recent years.

### 1. KNOWLEDGE

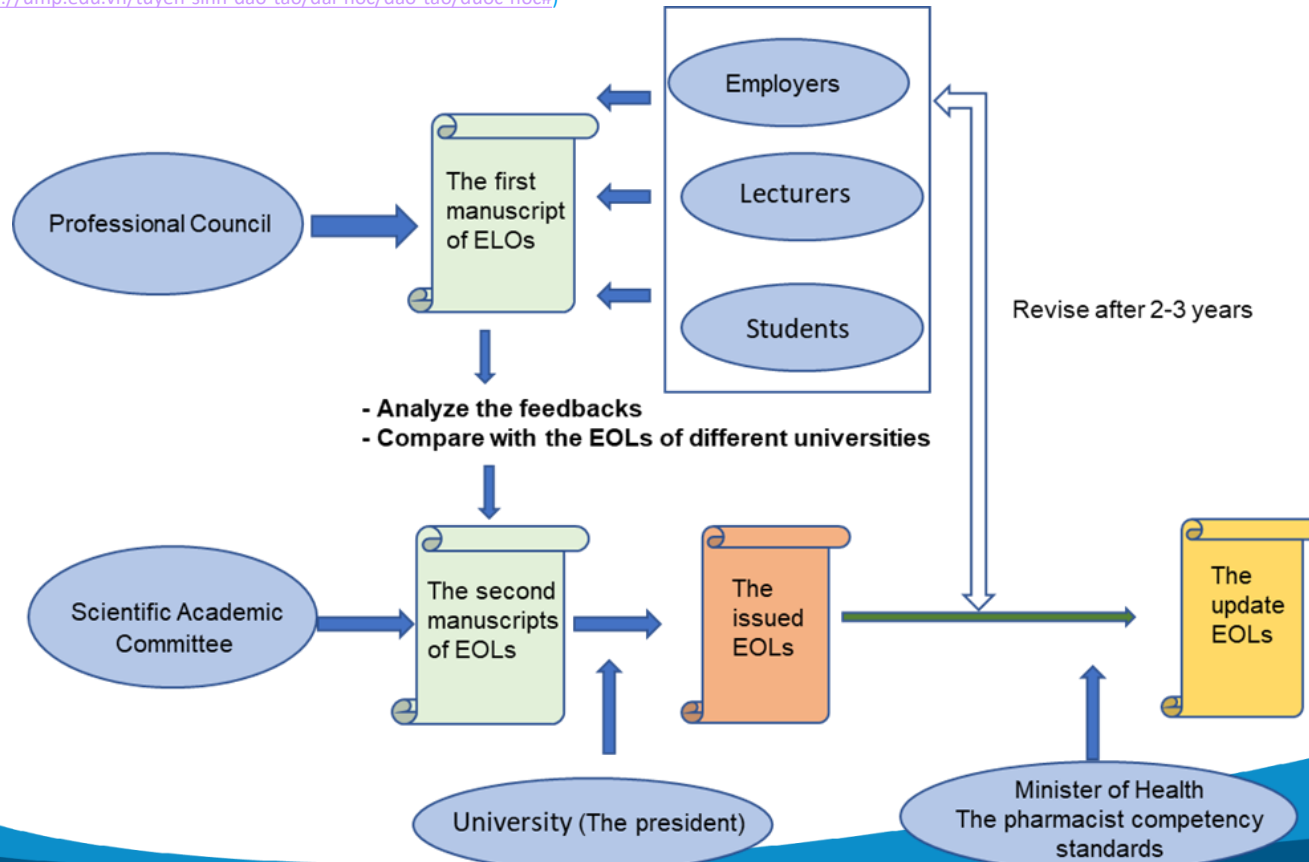
Requirement	Percent (%)				
	1	2	3	4	5
<b>1. Absolutely disagree 2. Disagree 3. No opinion 4. Agree 5. Absolutely agree</b>					
<i>Politic</i>					
1. Understanding the fundamental principles of Marxism-Leninism, the revolutionary line of the Communist Party of Vietnam and Ho Chi Minh ideology to apply to the implementation of policies of the Party and the Government in the care and protection of people's health.	0.0	40.0	60.0	0.0	0.0
<i>General specialty</i>					
2. Applying the knowledge of basic science and medical science to serve pharmaceutical expertise	0.0	0.0	60.0	40.0	0.0
3. Applying Vietnam's regulation about manufacturing, providing, managing, quality assuring of drug, functional foods and cosmetics	0.0	10.0	40.0	50.0	0.0
4. Conceiving and presenting the theoretical basis, perspective of Vietnam's health sector related to direction, strategies, health policies strategies for development of the pharmaceutical industry, drug development, especially drugs from medicinal herbs and traditional medicines.	0.0	0.0	80.0	20.0	0.0
5. Presenting the role and developed orientation of medicinal herbs in health caring and pharmaceutical manufacturing, the point of WHO, Vietnam's government in the conservation, grow and reasonable, safety implement	0.0	0.0	80.0	20.0	0.0



# EXPECTED LEARNING OUTCOMES

November 16<sup>th</sup> 2020: Third version of Learning outcomes (including 11 ELOs), revised according to stakeholders' needs, Competency standards for Pharmacists issued by Ministry of Health of VietNam on 15<sup>th</sup> October 2019 and others international program (Mahidol University, NUS, Monash, UCSF).

<https://ump.edu.vn/tuyen-sinh-dao-tao/dai-hoc/dao-tao/duoc-hoc#>





# EXPECTED LEARNING OUTCOMES



University Of Medicine and Pharmacy, Ho Chi Minh City



## FACULTY OF PHARMACY

### EDUCATIONAL PHILOSOPHY

From 2016, based on social constructivism theory, the educational philosophy of FoP has been described amply is: "The PEP is the programme which helps the students to develop good ethics, strong foundation of science knowledge, medicine and pharmacy as well as the professionalism and skills to provide advice on the proper use of drugs in a safe and effective way; to produce, manage and supply good drugs; to be capable of doing scientific research and self-study to improve professional qualifications. These objectives aim to meet the needs of caring, protecting and improving people's health".

### MISSION

To become a Center of Excellence in pharmacy education, to conduct scientific research and technology transfer in the pharmaceutical field, to promote health for all people, enhance the role of Vietnamese pharmacy.

### VISION

To be a top of pharmacy in Viet Nam, at the same level with other top pharmacy universities/faculties in the region.

### CORE VALUE

Professionalism - Excellence - Dynamics - Innovation



## THE EXPECTED LEARNING OUTCOMES (ELO)

### KNOWLEDGE

1. Apply knowledge of social science, Marxism-Leninism principles, Ho Chi Minh Ideology, policies of the Socialist Republic of Vietnam, law, sub-law documents and regulations in the activities of health care and pharmaceutical sectors.
2. Apply knowledge of basic science, foundational science, professional science in the fields of production, development and quality assurance of drug material and drug; drug supply and pharmaceutical care.

### SKILLS

3. Design and supervise production activities, test raw materials and finished products according to GPs.
4. Evaluate the indications and instructions for the use of drugs according to the principles of safety, effectiveness and rationality.
5. Implement activities to organize, manage and supply drugs.
6. Communicate effectively English or French in professional activities.
7. Use information technology in professional activities.
8. Work effectively as team leader or member, to detect and solve problems professionally.

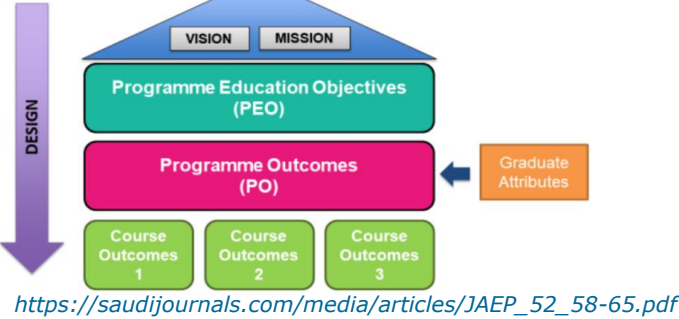
### ATTITUDE

9. Demonstrate prudent, scientific and honest characteristics in professional activities; obey the law, the pharmaceutical regulations and professional ethics.
10. Respect and cooperate with the patient, co-workers, partners, patient relatives, and social responsibility.
11. Engage in life-long and evidence-based learning.





# OUTCOME-BASED PROGRAM



**2012-2013 Academic year**  
**233 course units**

- Basic Science Knowledge: 58 course units

Core Pharmaceutical Science Knowledge: - Fundamental Pharmaceutical Science Knowledge (46 course units) - Applied Pharmaceutical Science Knowledge (56 course units) - Supplementary Knowledge (58 course units) - Final dissertation or graduating examination (15 course units)

**2016-2017 Academic year (credit transfer)**  
**Educational Program: 168 credits**

- Basic Science Knowledge (32 credits) - Fundamental Pharmaceutical Science Knowledge (41 credits) - Applied Pharmaceutical Science Knowledge (65 credits) - Professional Specialization Knowledge (20 credits) - Graduation (10 credits)

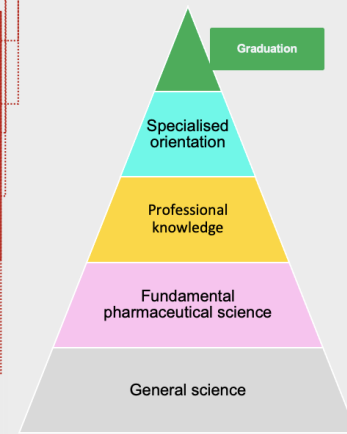
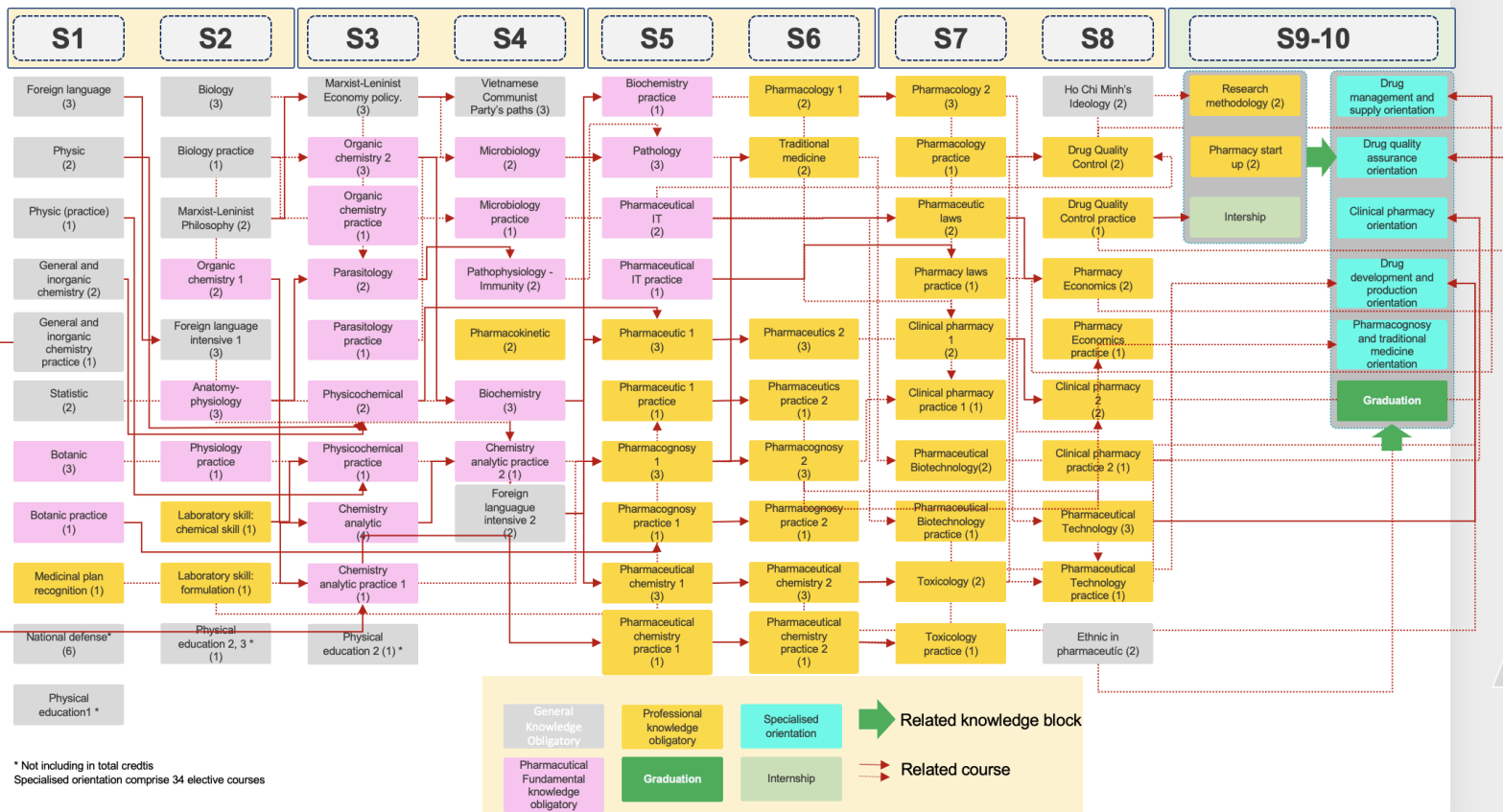
**2019-2020 Academic year**  
**Educational Program: 170 credits**

Basic Science Knowledge (33 credits) - Fundamental Pharmaceutical Science Knowledge (41 credits) - Applied Pharmaceutical Science Knowledge (66 credits) - Professional Specialization Knowledge (20 credits) - Graduation (10 credits)





# OUTCOME-BASED PROGRAM



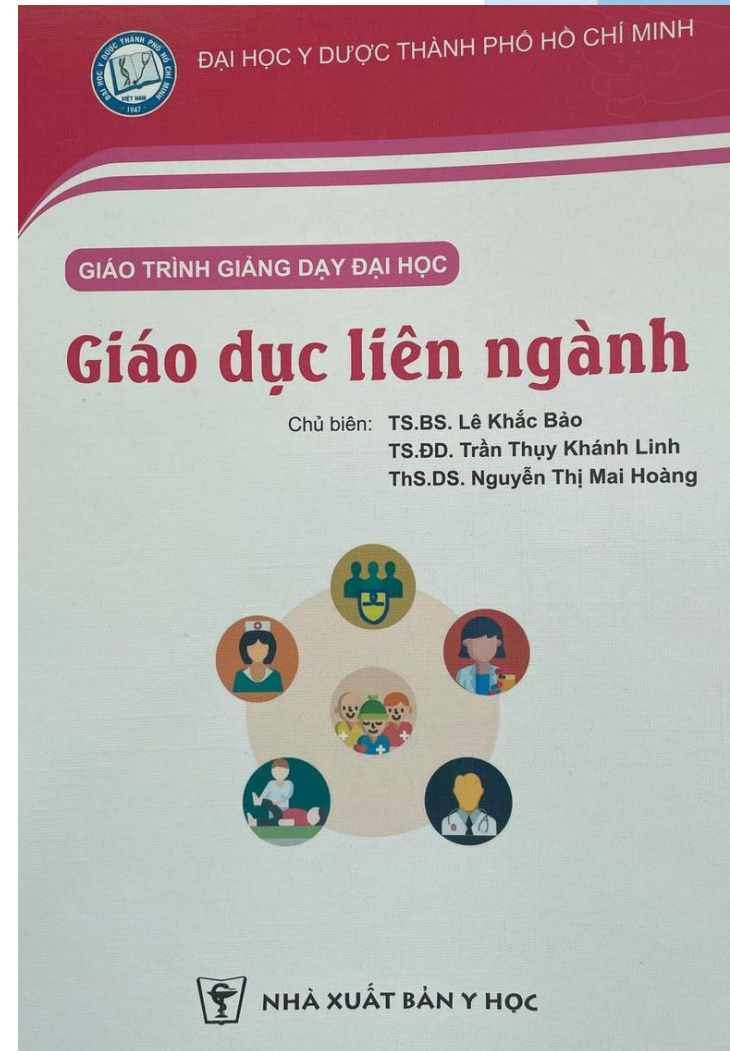
\* Not including in total credits  
Specialised orientation comprise 34 elective courses



# OUTCOME-BASED PROGRAM: IPE COURSE



Since: 2019







# OUTCOME-BASED PROGRAM: IPE COURSE

## INTERPROFESSIONAL EDUCATION 1 – COURSE SYLLABUS

- Course title:	INTERPROFESSIONAL EDUCATION – 1
- Course code:	
- Domain of learning (knowledges/ skills):	
<input type="checkbox"/> Basic knowledges	<input type="checkbox"/> Specialized basic knowledges
<input type="checkbox"/> Specialized knowledges	<input type="checkbox"/> Others: specialized oriented course (optional)
<input checked="" type="checkbox"/> Skills	<input type="checkbox"/> Project/ graduation thesis
- Number of credits:	1 credit (practice)
+ Theoretical learning hours/number of sessions:	0
+ Practical learning hours/number of sessions:	30 hours / 8 sessions
- Prerequisite subjects:	None
- Parallel subjects:	None
- Students:	Year 4 medicine students Year 4 pharmacy students Year 3 nursing students Year 3 rehabilitation students

### I. Course description

The InterProfessional Education (IPE) module helps prepare health profession students the collaborative ability to provide patient care, promote health improvement and disease prevention for the community as an interprofessional team, helps students to be ready for integration into the future interprofessional work environment.

The IPE module is implemented for students of 4 faculties, including General Physician students (from Faculty of Medicine), Pharmacy students (from Faculty of Pharmacy), Bachelor students of Public health (from Faculty of Public Health) and Bachelor students of Nursing and Bachelor students of Rehabilitation (from Faculty of Nursing and Medical Technology).

The IPE module includes 2 training phases:

8.	Games for developing communication skills - “Two truths – One lie” - “Guess the idea of painting” - “Three copies of the original”	4	7 – 9	
9.	Games for developing teamwork skills - “Building towers” - “Separation – Recombination” - “Information transmission” - “Relay drawing”	4	10 – 12	
<b>Total</b>		<b>16 hours</b>		
No	Activities at ATCS center	Learning hours	Objectives	Assessment
1.	Clinical vignette 1 (practice or observe)	3.5	1 – 12	Peer feedback, faculty feedback, standardized patient’s feedback
2.	Clinical vignette 2 (practice or observe)	3.5	1 – 12	
3.	Clinical vignette 3 (practice or observe)	3.5	1 – 12	
4.	Clinical vignette 4 (practice or observe)	3.5	1 – 12	
<b>Total</b>		<b>14 hours</b>		

Clinical vignettes are changed through various IPE courses, including 4 of the following 14 cases::

1. “Chronic obstructive pulmonary disease (COPD)”
2. “Bacterial meningitis in children”
3. “Day 3 after caesarean section”
4. “End stage renal disease (ESRD)”
5. “Polypharmacy in elderly patient”
6. “Adverse reaction of tuberculosis drugs”
7. “Postoperative appendicitis”
8. “End stage cancer”
9. “Hemophilia”
10. “Broken flexor tendon of the hand”



# ELEARNING

Elearning: [student/teacher@ump.edu.vn](mailto:student/teacher@ump.edu.vn)

August 2015

Elearning trial, DAAB project, Health workforce improvement program.

May 2019

[elearning.ump.edu.vn](http://elearning.ump.edu.vn) (published handout)

Academic year  
2020 – 2021

Course syllabi, handout, video, pre-test and post-test, forum. (Update every school year).





# ELEARNING

Dashboard of the student system showing personal information and course progress.

**Thông tin sinh viên**

MSSV: 511166314 | Lớp học: D16  
 Họ tên: Hoàng Kim Nghi | Khóa học: 2016  
 Giới tính: Nam | Bậc đào tạo: Đại học  
 Ngày sinh: 10/04/1998 | Loại hình đào tạo: Chính quy 5 năm  
 Nơi sinh: | Ngành: Dược học

Buttons: Lịch theo tuần, Kết quả học tập, Công cụ học phần, Thành tích trả bài, Nhắc nhở, Đề xuất biểu mẫu.

Weekly schedule page for the student.

**Lịch học, lịch thi theo tuần**

Navigation: Tất cả, Lịch học, Lịch thi (21/11/2020)

Ca học	Thứ 2 16/11/2020	Thứ 3 17/11/2020	Thứ 4 18/11/2020	Thứ 5 19/11/2020	Thứ 6 20/11/2020	Thứ 7 21/11/2020	Chủ nhật 22/11/2020
Sáng							
Chiều	Công nghệ sản xuất dược phẩm 1 D16 - 10160009101 Tiết: 7 - 11 Phòng : Giảng đường 2 - Tầng trệt - 41 ĐTH : QV: Lê Minh Quân Ghi chú:	Tổng hợp thuốc thiết yếu D16 - 10160009401 Tiết: 7 - 11 Phòng : Giảng đường 3 - Tầng 1 - 41 ĐTH : QV: Vũ Thị Cẩm Vân Ghi chú:	Công nghệ sản xuất dược phẩm 1 D16 - 10160009101 Tiết: 7 - 11 Phòng : Giảng đường 1 - Tầng trệt - 41 ĐTH : QV: Lê Minh Quân Ghi chú:	Sản xuất nguyên liệu cơ sinh học D16 - 10160009501 Tiết: 7 - 9 Phòng : Giảng đường 1 - Tầng trệt - 41 ĐTH : QV: Nguyễn Tô Anh Ghi chú:	Công nghệ sản xuất dược phẩm 1 D16 - 10160009101 Tiết: 7 - 11 Phòng : Giảng đường 1 - Tầng trệt - 41 ĐTH : QV: Nguyễn Tô Anh Ghi chú:		
Tối							

Legend: Lịch học (grey), Lịch học trực tuyến (blue), Lịch thi (yellow), Lịch tạm ngưng (red).

Table showing course results and scores.

ID	Course Name	Credits	Score	Grade	Final Grade
52	Thực tập được làm sáng 2	1	8,70	8,70	8,70
3	Thực tập kiểm nghiệm thuốc	1	7,60	7,60	7,60
54	Thực tập kinh tế dược	1	8,00	8,00	8,00
<b>Đợt 1 (Năm học 2020 - 2021)</b>					
55	Công nghệ sản xuất dược phẩm 1	3	9,00	9,00	9,00
56	Công nghệ sản xuất dược phẩm 2	2	10,00	10,00	9,80
57	Công nghệ sản xuất dược phẩm 3	2	7,00	7,00	7,30
58	Khởi nghiệp dược khoa	2		8,40	8,40
59	Kiểm nghiệm thực phẩm	2	8,50	8,50	8,50
60	Phương pháp nghiên cứu khoa học	2		8,00	8,00
61	Sản xuất nguyên liệu cơ nguồn gốc sinh học	2	9,00	9,00	9,00
62	Thực tập sản xuất dược phẩm	1		9,00	9,00
63	Tổng hợp thuốc thiết yếu	2	8,10	8,10	9,00



# ELEARNING



	Teaching and learning methods	Describe teaching and learning methods
<b>Theory</b>	Combining online teaching and teaching in the classroom	<ul style="list-style-type: none"><li>- Elearning through Microsoft Teams and e-learning system.</li><li>- In the classroom:<ul style="list-style-type: none"><li>○ Power point presentation</li><li>○ Group discussion</li><li>○ Thematic report</li></ul></li></ul>
<b>Practice</b>	Combining e-learning and practice in the laboratory (blended – learning)	Students learn practical lessons on the e-learning system by themselves (before the practice session) → pass the pre-test → take a practical lesson in the lab → report the practice results



# ELEARNING



→ Bộ môn Bào chế → Baoche → Kỹ thuật hoà tan lọc và Dung Dịch thuốc → Pretest chương Dung dịch

## Question 1

Not yet answered

Marked out of

1.00

Flag question

Trình bày dung dịch thật và dung dịch giả? Khi bào chế, các vấn đề thường gặp với dung dịch giả là gì? Đề xuất hướng giải quyết

Paragraph

## Question 3

Complete

Mark 0.00 out of

1.00

Flag question

Dạng thuốc có thành phần từ dược liệu (được bào chế, xác định rõ thành phần, được tiêu chuẩn hóa) có tác dụng phòng và chữa bệnh dựa trên bằng chứng khoa học gọi là

- a. Thuốc y học cổ truyền
- b. Thực phẩm chức năng
- c. Thuốc đông y
- d. Thuốc dược liệu

## Question 4

Complete

Mark 1.00 out of

1.00




Flag question

Thuật ngữ để chỉ dạng trình bày của một thuốc nhằm đưa dược chất vào cơ thể để điều trị một bệnh xác định gọi

- a. Sản phẩm thuốc
- b. Dạng thuốc
- c. Dạng bào chế
- d. Dạng thuốc hoặc dạng bào chế tùy tình huống cụ thể

## Forum discussion after each lesson

Add a new discussion topic

Discussion	Started by	Replies	Last post
độ tan và độ hòa tan	 Bùi Hoàng Lan Anh	1	Trần Văn Thành Thu, 18 Nov 2021, 11:00 PM
nồng độ cồn đạt để bào quản	 Hà Thị Thu Phương	1	Trần Văn Thành Thu, 18 Nov 2021, 7:50 PM
Độ hoà tan	 Trần Văn Thành	8	Trần Văn Thành Thu, 21 Oct 2021, 7:15 AM



# INTERNSHIP

Internship place: .....

## EVALUATION BY INVITED LECTURER IN INTERNSHIP PLACE

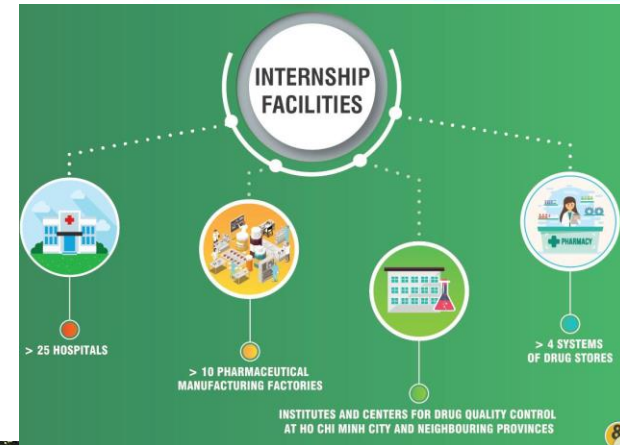
Student's full name: .....

Group: .....

Internship time: from..... to .....

Criterias	Achievement				Point	Ratio
	Excellent (10 – 8,5)	Strong (8,4 – 7,0)	Satisfactory (6,9 – 4,0)	Weak (3,9 – 0)		
<b>IMPLEMENTATION OF REGULATIONS</b> This is a prerequisite point (just pass or fail according to the actual internship regulations)					Pass / Fail	
<b>I. ATTITUDE AND DISCIPLINE PRACTICE AT THE INTERNSHIP PLACE</b> Working time, protecting facilities; safety awareness.	Achieve at strong level and help friends to comply with the request	Achieve at satisfactory level and suggest more solution / idea to easily achieve the requirement	comply with all the requirements	violated one of the requirements	...../10	25%
<b>II. SOFT SKILLS</b> - Work independently and cooperate in groups; - Active at work; - Good attitude, good communication with internship staff	Achieve at strong level and have the ability to organize groups, create high consensus	Achieve at satisfactory level and Group activity showed a connection among the members	comply with all the requirements	violated one of the requirements	...../10	25%
<b>III. Knowledge</b> Internship oral assessment	Achieve at strong level and shows their analysis and synthetic capacity	Achieve at satisfactory level and express or explain the relation between theory and practical aspect in the internship place	Answer correctly	Wrong answer	...../10	50%
<b>TOTAL SCORE</b>					...../10	<b>100%</b>

\*Total score = Part I \*25% + Part II \*25% + Part III \*50%

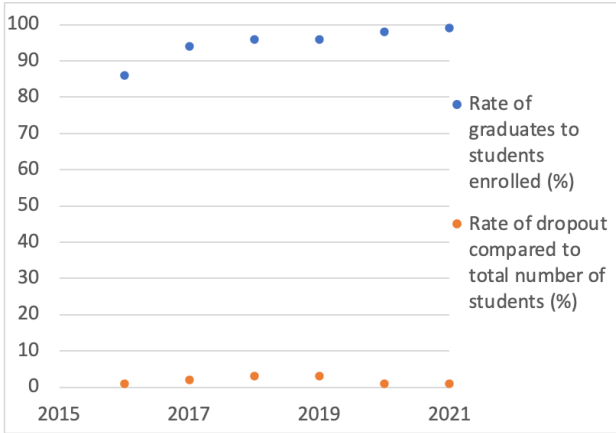




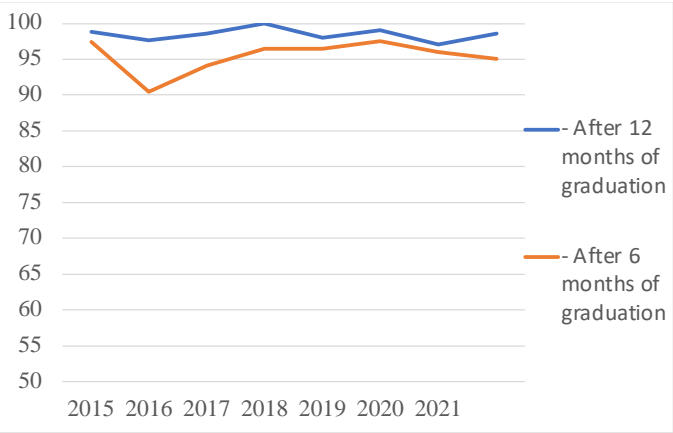
# OUTPUTS



## Graduation and drop out of enrolled students (%)



## Percentage of graduates having pharmacy jobs (%)

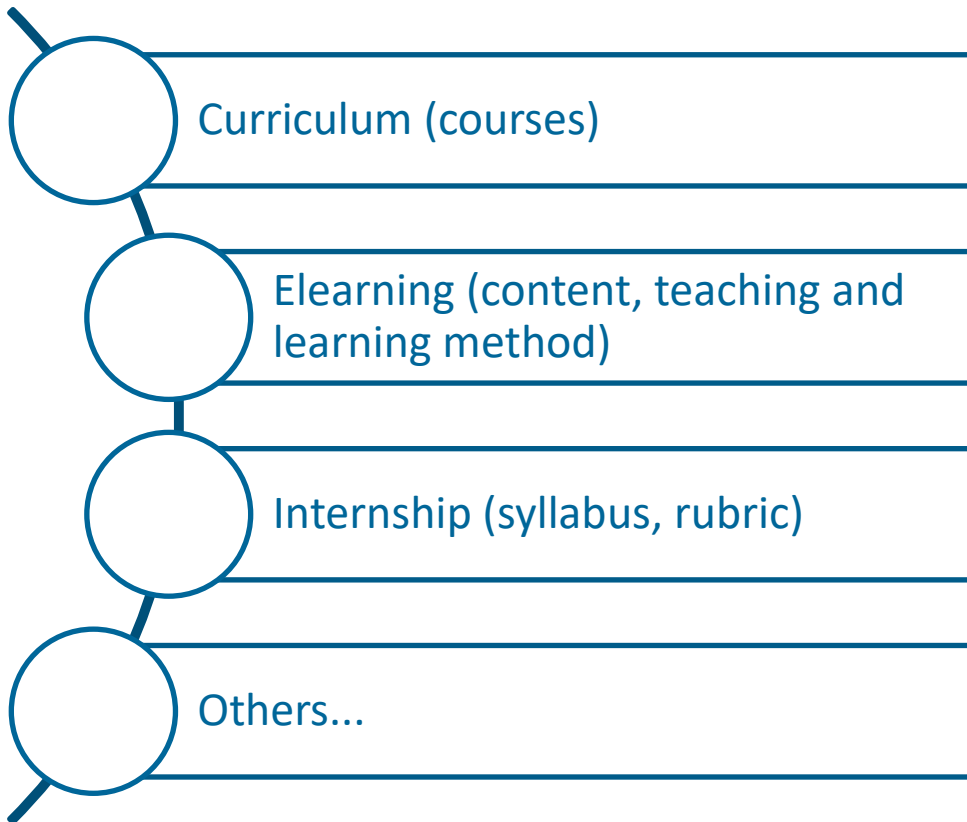


## Employer satisfaction score





# CONCLUSION



**ASEAN UNIVERSITY NETWORK PRESENTS THIS CERTIFICATE TO**

**Pharmacy  
(Undergraduate Education Program)  
of  
University of Medicine and Pharmacy at Ho Chi Minh City**

**FOR SUCCESSFULLY COMPLETING THE  
AUN-QA PROGRAMME ASSESSMENT**

ASEAN UNIVERSITY NETWORK certifies that  
Pharmacy (Undergraduate Education Program) of University of Medicine and Pharmacy at  
Ho Chi Minh City has been assessed and found to be in accordance with the requirement of  
the standard details of the  
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Original Approval Date: **28 July 2021**  
Subject to the continued satisfactory operations  
of the programme's Management System,  
this certificate is valid until: **27 July 2026**  
The provision of further clarification regarding the scope  
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Certificate Number:  
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Choltis Dhirathiti, Ph.D.  
Executive Director  
ASEAN University Network

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# Thank you!



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