

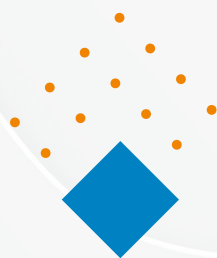


Course Booklet

THE 3rd EDITION OF INTERNATIONAL SHORT COURSE

***“Herbals and Cosmetics Development:
Combining Quality by Design Concept and Halal Approaches”***

Yogyakarta, July-August 2023



***FACULTY OF PHARMACY
UNIVERSITAS AHMAD DAHLAN***



ABOUT

There are currently approximately 1.8 billion Muslims in the world which is almost one quarter of the world population. The awareness on halal products has been increased for last couple years. Nowadays, halal products are not only focused on foods but all the products including pharmaceuticals (synthetic drug, herbal and cosmetic). Halal pharmaceuticals are rapid gaining worldwide recognition as a new benchmark for safety and quality assurance. Therefore, this course is designed to provide students with knowledge and skills to develop drugs, herbal medicines and cosmetics based on quality by design (QbD) principles and halal pharmaceutical approaches.

This short course runs for four weeks with topics to learn including development of halal products with QbD, pre-formulation of natural products and cosmetics. This course is split between lecture by guest speakers, individual and group assignments and project-based groupwork, where participants will work with the experienced tutors. During the final day, participants will present the result of their group project and will be assessed by our panelists.

In addition, during the course, participants will have a brief workshop with an introduction to Virtual Body Interact Simulator and get an opportunity to learn clinical pharmacy with a virtual patient at a glance using interactive virtual simulator.

This course allows you to learn from our expert course leaders during interactive live sessions and engage in stimulating discussions with students from across the world who share your interests. Join our short course program and expand your professional network!

OBJECTIVE

By the end of this month-long course students should be able to:

- Understand pharmaceutical quality by design (QbD)
- Understand pharmaceutical halal concept
- Understand how to develop drugs, herbal medicines and cosmetics based on QbD and pharmaceutical halal approaches

OBJECTIVE

- Online: week 1 and 2
- Offline: week 3 and 4



PLACE & DATE

Yogyakarta, Indonesia; July-August 2023

COURSE ASSESSMENT

- | | |
|---------------------------|-------|
| • Quiz | : 5% |
| • Individual assignment | : 10% |
| • Group assignment | : 25% |
| • Project-based groupwork | : 40% |
| • Final presentation | : 20% |

COURSE RULES

1. Participants have to join the course at least 15 minutes before the scheduled time
2. Participants must attend at least 80% of the classes to get the course certificate
3. Course grades will be provided in separate transcript documents. The grade will be calculated based on the participant's performance during the whole course.
4. The marks, transcript, and conversion table for foreign students will be given after the course following the UAD policy. The transcripts for Indonesian students will be given to undergraduate students only.
5. Participants have to fulfill the attendance list for each course

PARTICIPANT

This course is open to advanced undergraduate students and post-graduate students in pharmacy, pharmaceutical sciences and any other related fields.

STUDY CREDITS

- Successful completion of the short course can be awarded with credits according the Indonesian Credit Transfer System (SKS).
- To include the credits in the curriculum at the home institution, participants need an agreement with the responsible person at the home institution.
- A certificate of completion will be awarded at the end of the program.



LANGUAGE REQUIREMENTS

It is expected that the participants have a sufficient command of the English language to actively participate in the discussions and to present their own work in English.

FEE

The participation fees cover the costs of teaching materials and lectures. Living costs are excluded.

CONTACT

If you are interested to find out more about this program and opportunities for international students, please visit our dedicated website

<https://ffarmasi.uad.ac.id/>

Contact person: +62 821-5114-7071 (Apt. Yudha Rizky Nuari., M.Sc)



SCHEDULE

Week	Date	Local Time	Topic	Speaker/Facilitator
Week 1	Day 1	09.00-09.10	Opening of short course	
		09.10-09.20	Opening speech by Chairman of committee	Apt. Yudha Rizky Nuari., M.Sc
		09.20-09.30	Opening speech by Dean of Faculty Pharmacy Universitas Ahmad Dahlan	Prof.Dr. Apt. Dyah Aryani perwitasari., M.Si., Ph.D.,
		09.30-10.50	Natural Product Formulation	Apt. Ichwan Ridwan Rais., M.Sc., Ph.D
		10.50-11.20	Discussion session	
		11.20-12.30	Break session	
		12.30-14.00	Group activity introduction of "group assignment 1"	Committee
	Day 2	09.00-10.20	Natural Product Formulation	Dr. Apt. Dwi Utami., M.Si.
		10.20-11.00	Discussion session	
		11.00-11.15	Quiz Session	committee
		11.15-12.30	Break session	
		12.30-14.00	Group discussion of "group assignment 1"	Committee
	Day 3	09.00-10.20	Pharmacotherapy of Neurology	Dr. Amelia., Sp.S., Ph.D
		10.20-12.00	Pharmaceutical Care of Neurology	Apt. Erik Jainuri, M.Farm.Klink
		12.00-13.00	Break session	
		13.00-14.30	Individual assignment (take home)	
	Day 4	09.00-11.00	Body Interact simulation	Dr. Apt. Woro Supadmi, M.Sc. Apt. Susan Fitria Candradewi, M.Sc. Apt. Haafizah Dania, M.Sc.
		11.00-11.30	Discussion session	
		11.30-13.00	Break session	
		13.00-13.15	Quiz session	
	Day 5	09.00-11.30	Presentation of group assignment 1	Committee
Week 2	Day 1	09.00-10.20	Halal Cosmetics	Dr. Apt. Nining Sugihartini., M.Si.
		10.20-11.00	Discussion session	
		11.00-12.30	Break session	
		12.30-14.00	Group activity introduction of "group assignment 2"	Committee
	Day 2	09.00-10.20	Halal Cosmetics	Dr. Apt. Nina Salamah, M.Si.
		10.20-11.00	Discussion session	
		11.00-11.15	Quiz Session	Committee
		11.15-12.30	Break session	
		12.30-14.00	Group discussion of "group assignment 2"	Committee
	Day 3	09.00-10.20	Halal Product Development	Prof. Dr. Apt. Any Guntarti., M.Si.
		10.20-11.00	Discussion session	
		11.00-11.15	Individual assignment (take home)	Committee
		11.15-12.30	Break session	
		12.30-14.00	Group discussion of "group assignment 2"	Committee



SCHEDULE

	Day 4	09.00-10.20	Review Individual assignment (take home)	
		10.20-11.50	Group discussion of "group assignment 2"	
	Day 5	09.00-11.00	Presentation of group assignment 2	
Week 3	Day 1	09.00-12.00	Project-based Groupwork 1 (Herbal Medicines Development)	Team teaching
	Day 2	09.00-12.00	Project-based Groupwork 1 (Herbal Medicines Development)	Team teaching
	Day 3	09.00-12.00	Project-based Groupwork 1 (Herbal Medicines Development)	Team teaching
	Day 4	09.00-12.00	Project-based Groupwork 1 (Herbal Medicines Development)	Team teaching
	Day 5	09.00-12.00	Presentation of Project-based Groupwork 1	Team teaching
Week 4	Day 1	09.00-12.00	Project-based Groupwork 2 (Halal Cosmetics)	Team teaching
	Day 2	09.00-12.00	Project-based Groupwork 2 (Halal Cosmetics)	Team teaching
	Day 3	09.00-12.00	Project-based Groupwork 2 (Halal Cosmetics)	Team teaching
	Day 4	09.00-12.00	Project-based Groupwork 2 (Halal Cosmetics)	Team teaching
	Day 5	09.00-12.00	Presentation of Project-based Groupwork 2	Team teaching