

Models and Practices of Research Implementation in Academic Curriculum

Presented in 23rd Thai Medical Education Conference (TMEC), 2024

Murti Andriastuti

Faculty of Medicine Universitas Indonesia

Faculty of Medicine, UI

- Established since **1946**
- Located in two areas, **Salemba** (central Jakarta) and **Depok** (West Java)
- 2 main teaching hospital, Cipto Mangunkusumo and UI Hospital)

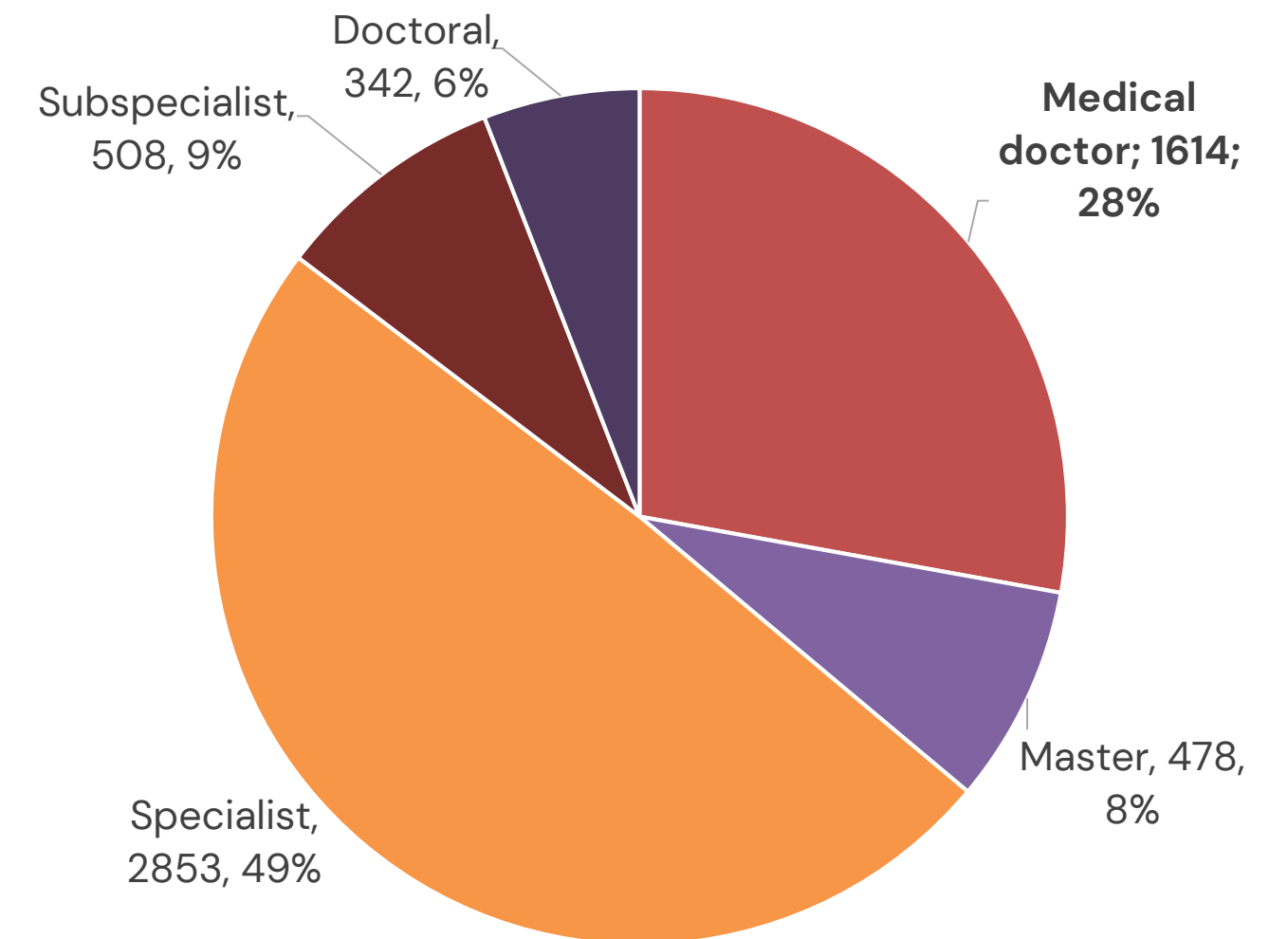


- FMUI has **International Class Program** (double degree program) collaboration with:
 - University of Melbourne (Australia)
 - Monash University (Australia)
 - University of Newcastle Upon Tyne (England)

Number of study program

Under-graduate and Profession	Master	Doctoral
Bachelor of medicine	Biomedical sciences	Biomedical sciences
Bachelor of medicine (international class)	Nutritional sciences	Nutritional sciences
Medical doctor	Occupational medicine program	Medical sciences
Medical doctor (international class)	Medical education	
Specialist (n = 32) Subspecialist (n = 7)		

Number of students



Each year, we accept **± 250 high school students** for **undergraduate program** (150 students of regular class and 100 students of international class)

Vision and Mission 2020 - 2024

Universitas Indonesia

Vision: To become a superior and competitive **center of science**, technology and culture, ..., thereby contributing to the development of the Indonesian people and the world

One of the mission:
Organizing quality **Tridharma** activities (education, **research**, and community service) that are relevant to national and global challenges

FMUI

Vision: To become a **center for science**, medical technology and culture that is superior and competitive, through efforts to educate the life of the nation to improve the welfare of society thereby contributing to the development of Indonesia and the world

One of the mission:
Carrying out **Tridharma** activities that are relevant and relevant to national and global challenges

Medical Doctor Study Program

Vision:
Producing professional doctors by utilizing **research- and innovation-based** medical technology, to educate the nation and improve health of the community, thereby contributing to the development of Indonesia and the world

One of the mission:
Conducting **high-quality research and innovation** in the applicable field of medical science to enhance the public health status

FMUI Research Focus

Basic Research

- Literature review
- Preliminary study
- Epidemiological study
- Formulation of experimental steps
- Policy review
- Comparative Policy Analysis
- Mechanism of action testing
- Toxicology testing



Applied Research

- In vitro studies
- In vivo studies
- Study protocol
- Application design
- Prototype product design
- Advanced policy analysis
- Product design
- Policy formulation
- AI testing
- Preclinical and clinical validation testing



Development Research

- Production and manufacturing
- Advanced clinical trial
- Launching AI products and innovations
- Optimization and monitoring
- Policy recommendations



Research Product Downstreaming

- User engagement
- Market strategy
- Industrial collaboration optimization

Academic Calendar

TERM I: 28 Agustus - 29 Desember 2023

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
28 Agt - 6 Okt 2023						9 Okt - 17 Nov 2023						20 Nov - 29 Des 2023						Pemasukkan Nilai
Kulit & Jaringan Penunjang						Muskuloskeletal						Penginderaan						
Keterampilan Klinik Dasar - 1																		
EEP - 1																		

Pemasukkan Nilai

28 Agt - 6 Okt 2023	9 Okt - 17 Nov 2023	20 Nov - 29 Des 2023	Pemasukkan Nilai
Skin & Integumentary System	Musculoskeletal	Special Senses	
Basic Clinical Skills - 1			
EEP - 1			

Pemasukkan Nilai

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
28 Agt - 6 Okt 2023						9 Okt - 17 Nov 2023						20 Nov - 29 Des 2023						Pemasukkan Nilai
Gastrointestinal						Ginjal dan Cairan Tubuh						Kardiovaskular						
Keterampilan Klinik Dasar - 2																		
EEP - 3																		
Riset - 2																		

Pemasukkan Nilai

28 Agt - 6 Okt 2023	9 Okt - 17 Nov 2023	20 Nov - 29 Des 2023	Pemasukkan Nilai
Gastrointestinal	Renal and Body Fluids	Cardiovaskular	
Basic Clinical Skills - 2			
EEP - 3			
Scientific Writing			

Pemasukkan Nilai

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
31 Juli - 8 Sep 2023						11 Sept - 6 Okt 2023				9 - 20 Okt 2023		23 Okt - 17 Nov 2023				20 Nov - 29 Des 2023					
Sistem Pelayanan Kesehatan Primer						EBM / Elektif Non Klinik				Riset-2		EBM / Elektif Non Klinik				Foundations of Clinical Practice					
Riset-2																					
Pemasukkan Nilai																					
Yudisium Sarjana																					

Pemasukkan Nilai

Yudisium Sarjana

TERM II: 5 Februari - 14 Juni 2024

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
5 Feb - 15 Mar 2024						18 Mar -			Libur Lebaran	10 Mei 2024			13 Mei - 21 Juni 2024						Riset-1	
Saraf Jiwa						Infeksi				Imunologi			Imunologi, Hematologi dan Onkologi							
KKD - 1										KKD - 1										
EEP - 2										EEP - 2										

Libur Lebaran

Riset-1

5 Feb - 15 Mar 2024	18 Mar -	Libur Lebaran	10 Mei 2024	13 Mei - 21 Juni 2024	Riset-1
Neuropsychiatry	Infection		Immunology	Immunology, Hematology and Oncology	
Basic Clinical Skills - 1			Basic Clinical Skills - 1		
EEP - 2			EEP - 2		

Libur Lebaran

Riset-1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
29 Jan - 1 Mar 2024					4 Mar - 5 Apr 2024					Libur Lebaran	15 Apr - 24 Mei 2024					27 Mei - 28 Juni 2024					Yudisium
Respirasi					Metabolik dan Endokrin						Reproduksi					Tumbuh Kembang					
Keterampilan Klinik Dasar - 2											Keterampilan Klinik Dasar - 2										
EEP - 4											EEP - 4										
Riset - 2											Riset - 2										

Libur Lebaran

Yudisium

29 Jan - 1 Mar 2024	4 Mar - 5 Apr 2024	Libur Lebaran	15 Apr - 24 Mei 2024	27 Mei - 28 Juni 2024	Yudisium
Respiratory	Metabolic and Endocrine		Reproduction	Growth and Development	
Keterampilan Klinik Dasar - 2			Keterampilan Klinik Dasar - 2		
EEP - 4			EEP - 4		
Riset - 2			Riset - 2		

Libur Lebaran

Yudisium

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
29 Jan - 8 Maret 2024						11 Mar - 5 Apr 2024				Libur Lebaran	15 Apr - 26 Apr '24		29 Apr - 24 Mei 2024				27 Mei - 5 Juli 2024						Perubahan Nilai	Yudisium Sarjana
Sistem Pelayanan Kesehatan Primer						EBM / Elektif Non Klinik					Riset-2		EBM / Elektif Non Klinik				Foundations of Clinical Practice							
Riset-2													Riset-2											

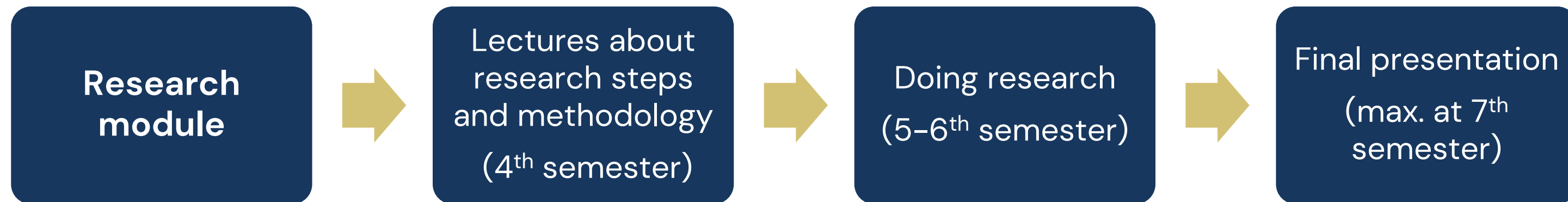
Libur Lebaran

Perubahan Nilai

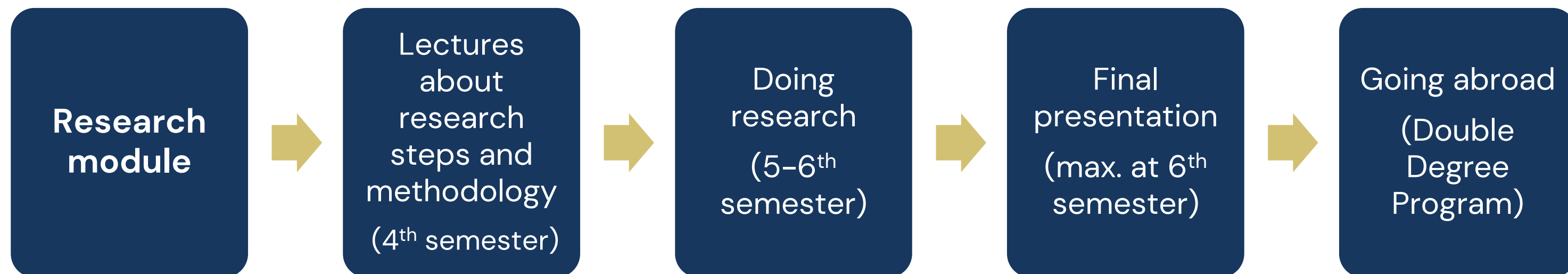
Yudisium Sarjana

Delivery of Research Module

Regular class:



International class:



Topics and Types of Student Research

Topics

**Basic
Science**

**Clinical/
hospital-
based**

**Community-
based**

Types

Descriptive

e.g. The VAS scores and pain-free period in occipital neuralgia patients after treatment in RSCM

Quantitative

e.g. The effect of spirulina on the total antioxidant capacity in a diabetic rat model

Qualitative

e.g. Students' perception on the quality of online education in FMUI during COVID pandemic period

Research Title Collection and Selection





UNIVERSITAS
INDONESIA

Veritas, Probitas, Iustitia

FK

Research Facilities

Pre-Clinical Rotation

- Laboratory in Depok,
- Departments' lab



Clinical Rotation

- Hospitals
- IMERI (Indonesian Medical Education and Research Institute) since 2017



Wisma Oemi Student Research House:

donated by Prof. Dr. Sri Oemijati, to develop awareness and scientific research skills for students.



Research Grant/Appreciation

UI

- 1x year for all staff member
- Students take part in the research team
- Credit for staff who supervised students' research

Faculty

- The best top 40 research proposals (for students)

Wisma Oemi

- The best top 10 research proposals (for students)



Research Title Selection: Student Satisfaction Survey

Please give your rating on the following statements by choosing a scale of 1 (very unclear) to 5 (very clear)

	Average rank (and average values)					↓
	Very Unclear	Unclear	Sufficiently Clear	Obviously	Very Clear	
Clarity of information and procedures research title selection				<div></div>		4.4 (4.4)
The suitability between the procedures and implementation for research title selection				<div></div>		4.4 (4.4)
Availability of research thesis topics/titles				<div></div>		4.4 (4.4)
Time given for the title selection, 2020 class meeting and online bidding				<div></div>		4.4 (4.4)
Refreshment course materials				<div></div>		4.3 (4.3)

Responses	Very Unclear	Unclear	Sufficiently Clear	Obviously	Very Clear	Total
Clarity of information and procedures research title selection	0	1 (2%)	7 (12%)	15 (26%)	34 (60%)	57
The suitability between the procedures and implementation for research title selection	0	0	9 (16%)	18 (32%)	30 (53%)	57
Availability of research thesis topics/titles	0	1 (2%)	8 (14%)	17 (30%)	31 (54%)	57
Time given for the title selection, 2020 class meeting and online bidding	0	1 (2%)	8 (14%)	16 (28%)	32 (56%)	57
Refreshment course materials	0	0	11 (19%)	17 (30%)	29 (51%)	57

Please give your rating on the following statements by choosing a scale of 1 (very not easy) to 5 (very easy)

	Average rank (and average values)					↓
	Very Not Easy	Not Easy	Quite Easy	Easy	Very Easy	
The procedure for research title selection				<div></div>		4.0 (4.0)
The use of EMAS as media for research title selection				<div></div>		4.4 (4.4)

Responses	Very Not Easy	Not Easy	Quite Easy	Easy	Very Easy	Total
The procedure for research title selection	0	2 (4%)	14 (25%)	24 (42%)	17 (30%)	57
The use of EMAS as media for research title selection	0	0	4 (7%)	25 (44%)	28 (49%)	57

[illegible][illegible]

Students' Achievements

- Publication in national/international journal
- Winner of International Conference
- Products → video, e-book, apps



Copyright: EndCorona

International Journal

International Conference

Mobile App

Thank you...

Reach Us Out



Address

Jl. Salemba Raya No. 6, Central Jakarta, 10430



Phone

(021) 31930373



Email

office@fk.ui.ac.id | humas@fk.ui.ac.id



Instagram

[@medicine_ui](https://www.instagram.com/medicine_ui)