

Course Details	
*University	Universitas Indonesia
*VSE Season	Season 1, 2021-22
*Term Description	Semester 1 (Ganjil) Term 2021-2022
*Course Code	MD04600301
*Course Title	MEDICAL TECHNO-SOCIOPRENEURSHIP
*No. of Credits / Units	3 credits
No. of Teaching Hours per Credit / Unit	16
Course Places for VSE (min: 5 for each course, max: 70 for each uni)	10
Course Offering Faculty/School/Departement	Faculty of Medicine
Name of Course Teacher	Anindya P. Susanto, B.Eng, MD, MM.
Link to Teacher Profile	https://www.researchgate.net/profile/Anindya-Susanto
First Day of Classes	
Last Day of Classes	
Language of Instruction	English
Course Description	<p>Design Thinking and Business Canvas Model are tools that are expected to be a forum that helps doctors in realizing Innovation. In this case, a doctor is required to be able to translate their ideas into a product or service, business model, health policy, as well as improving the quality of the system as a whole.</p> <p>An entrepreneurial aspect will be introduced which is defined as the ability to commercialize a product or service that is viable to become a business venture. Entrepreneurship can be small scale or start-up (start-up) or large organization (Hospital, health system, etc.)</p> <p>Currently, there is no module in the medical education curriculum that discusses formally how an idea can be developed properly and can be implemented in a clinical, technical, social, and commercial manner. In addition, the limited time available is also a challenge. This module is designed to be an answer to the lack of formal education and time constraints. By gaining additional knowledge and training on aspects of innovation and entrepreneurship, medical students are expected to have more value in the world of work. This module is active learning and interdisciplinary teaching, accompanied by inspiration from the actors. Various aspects of innovation and sociotechnopreneurship will be discussed while still paying attention to the development of the personal and professional identity of prospective doctor graduates in the future.</p>

Link to Course Syllabus/Outline	https://emas.ui.ac.id/pluginfile.php/682277/mod_resource/content/0/BRP%20MTSP%20-%20Semester%20Ganjil%202020-2021Final.pdf
Course-specific Restrictions (e.g. Prerequisites / Major / Year of Study)	Prerequisites: 3 rd / 4 th year of study in bachelor's degree program Major: For students from study programs of medicine, dentistry, nursery, public health, pharmacy, engineering (biomedical, electrical, mechanical, materials, chemical), medical physics, biophysics, biology, biochemistry.
Points to Note for Students	Course recording are available for students. Students will make a medical technology innovation in groups, with supervision from a teacher in each group. The final assignment will be in a pitch presentation form, assessed by academicians and business.
Fees to be Bourne by Students	Online materials fee: IDR 200,000.-

Matriks Kegiatan

WEEK I					
	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-08:00	L1: Integrated Introduction to Medical, Technology, and Sociopreneurship (PAY)	GD1: <i>What is it being a professional in the new era?</i>	Self-Learning	Self-Learning	Self-Learning
08:00-09:00	L3: Challenges in National Health System and Primary Care (AT)	(AF)	L6 State of the Art Medical Technology & Biomedical Engineering (PAY)	KL1: Health Problem & Empathize (AF)	GD3 Problem Identification & Ideation (AF)
09:00-10:00		Self-Learning			
10:00-11:00	L2: Health 4.0 in the perspective of medical techno-sociopreneurship (BW)	L5 <i>Design Thinking & Value Proposition Canvas</i> (FTUI-AS)	GD2: Challenges in National Medical Device and Role of Physician in 20 years time (PAY)		P1 Problem Identification & Ideation (AF)
11:00-12:00					
12:00-13:00	ISTIRAHAT				
13:00-14:00	L4: Medical Ethics & Profesionalism in innovation and entrepreneurship (AF)	ST1: Development of Tele-CTG to overcome maternal and newborn mortality rate (Ari Waluyo)	Self-Learning	Self-Learning	Self-Learning
14:00-15:00					

WEEK II					
	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-08:00	Self-Learning	Self-Learning	Self-Learning	Self-Learning	Self-Learning
08:00-09:00	Self-Learning	GD5: <i>Entrepreneurship Law</i> Legal Form of Business (APS)	Self-Learning	L9 <i>Foundation of Sociopreneurship</i> (IN)	
09:00-10:00					
10:00-11:00	GD4: <i>Value Proposition Canvas</i> (APS)	ST3: Virtual Reality in Medical Education (Reynard Ariakusuma)	Self-Learning	K10 Introduction to <i>Business Canvas Model & Business Plan</i> (IN)	
11:00-12:00					
12:00-13:00	ISTIRAHAT				
13:00-14:00	ST2: ENT Medical Device Innovation (Harim Priyono)	L7 Prototyping & 3D Printing (MHN)	GD6: Prototype (MHN)	GD7 <i>Business Canvas model & Business Plan</i> (IN)	
14:00-15:00					

WEEK III					
	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
07:00-08:00	Self-Learning	Self-Learning	Self-Learning	Self-Learning	Self-Learning
08:00-09:00	L8 Development & Life Cycle of Biomedical Product	KL2: Prototype Testing (MHN)	GD9 Iteration & Prototype Enhancement (MHN)	Self-Learning	Self-Learning
09:00-10:00	(APS)		Self-Learning		
10:00-11:00	GD8 <i>Entrepreneurial Finance:</i> Contemporary funding source				
11:00-12:00	(APS)				
12:00-13:00	ISTIRAHAT				
13:00-14:00	ST4: FK Tanpa Batas & Medi-Medi	Self-Learning		Self-Learning	Self-Learning
14:00-15:00	(Uti Nilam Sari)				

WEEK IV						
	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
07:00-08:00	Self-Learning	Self-Learning	Self-Learning	Self-Learning	Self-Learning	
08:00-09:00	P2 Prototype & Business Canvas Model	KL3: Medical Techno-sociopreneur Model (IN)	Self-Learning		Final Grading: Submission <i>Business Plan</i> (<i>Online</i>)	
09:00-10:00	(PAY & APS)		Self-Learning			Modul Evaluation (<i>Online</i>)
10:00-11:00	GD9: <i>Pitching Seminar & Business Plan Preparation</i>					
11:00-12:00	(APS)i					
12:00-13:00	ISTIRAHAT					
13:00-14:00	Self-Learning	Self-Learning	Self-Learning	Final Grading: <i>Pitching Seminar</i>	Self-Learning	
14:00-15:00				(PAY, AF, APS, MHN)		

Lecture Schedule Matrix

Module Committee

- a. Chairman : Prasandhya A. Yusuf, S.Si, M.T, PhD
- b. Secretary : dr. Anindya P. Susanto, B.Eng, MM.

Resource Persons

- a. Prof. Dr. dr. Budi Wiweko, SpOG(K), MPH **(BW)**
- b. Prof. Dr. dr. Med. Akmal Taher, Sp.U (K) **(AT)**
- c. dr. Ardi Findyartini, PhD **(AF)**
- d. Prasandhya A. Yusuf, SSi, MT, PhD **(PAY)**
- e. Dr.-Ing. Amalia Suzianti, ST, MSc. **(AS-FTUI)**
- f. dr. Irzan Nurman, MSc, Acp, CI, CMC, CCP, MNLP **(IN)**
- g. dr. Anindya P Susanto, B.Eng, MM. **(APS)**
- h. ir. M. Hanif Nadhif, ST **(MHN)**

Interactive Lectures

	Title	Resource Person	Time Allocation
L1	Integrated Introduction to Medical, Technology, and Sociopreneurship	Prasandhya A. Yusuf, SSi, MT, PhD	1 x 50 minute
L2	Health 4.0 in the perspective of medical techno-sociopreneurship	Prof. Dr. dr. Budi Wiweko, SpOG(K)	2 x 50 minute
L3	Challenges in National Health System and Primary Care	Prof. Dr. dr. Med. Akmal Taher, Sp.U (K).	2 x 50 minute
L4	Medical Ethics & Profesionalism in innovation and entrepreneurship	dr. Ardi Findyartini, PhD	2 x 50 minute
L5	<i>Design Thinking & Value Proposition Canvas</i>	Dr.-Ing. Amalia Suzianti, ST, MSc. (FTUI)	2 x 50 minute
L6	<i>State of the Art Technology & Biomedical Engineering</i>	Prasandhya A. Yusuf, SSi, MT, PhD	2 x 50 minute
L7	<i>Prototyping & 3D Printing</i>	ir. M. Hanif Nadhif, ST	2 x 50 minute
L8	Development & Life Cycle of	dr. Anindya Pradipta Susanto, B.Eng, MM.	2 x 50 minute

	Biomedical Product		
L9	<i>Foundation of Sociopreneurship</i>	dr. Irzan Nurman, MSc, Acp, CI, CMC, CCP, MNLP	2 x 50 minute
L10	Introduction to <i>Business Canvas Model & Business Plan</i>	dr. Irzan Nurman, MSc, Acp, CI, CMC, CCP, MNLP	2 x 50 minute

Doctor-technopreneur Inspiration Guest Seminar Series

	Title	Resource Persons	Time Allocation
ST1	Development of Tele-CTG to overcome maternal and newborn mortality rate	dr. Ari Waluyo, SpOG	1 x 50 minute
ST2	ENT Medical Device Innovation	dr. Harim Priyono, SpTHT-KL(K)	1 x 50 minute
ST3	Virtual Reality in Medical Education	Reynard Ariakusuma	1 x 50 minute
ST4	FK Tanpa Batas & Medi-medi	dr. Uti Nilam Sari	1 x 50 minute

Group Discussion

GD	Title	Tutor	Time Allocation
GD1	<i>What is it to be a professional in the new era?</i>	dr. Ardi Findyartini, PhD	2 x 50 minute
GD2	Challenges in National Medical Device and Role of Physician in 20 years time	Prasandhya A. Yusuf, SSi, MT, PhD	2 x 50 minute
GD3	Problem Identification & Ideation	dr. Ardi Findyartini, PhD	2 x 50 minute
GD4	<i>Value Proposition Canvas</i>	dr. Anindya Pradipta Susanto, B.Eng, MM	1 x 50 minute
GD5	<i>Entrepreneurship Law: Legal Form of Business</i>	dr. Anindya Pradipta Susanto, B.Eng, MM	2 x 50 minute
GD6	Prototype	ir. M. Hanif Nadhif, ST	2 x 50 minute
GD7	<i>Business Canvas Model</i>	dr. Irzan Nurman, MSc, Acp, CI, CMC, CCP, MNLP	2 x 50 minute
GD8	<i>Entrepreneurial Finance: Contemporary Funding Surces</i>	dr. Anindya Pradipta Susanto, B.Eng, MM	2 x 50 minute
GD8	Iteration & Prototype Enhancement	ir. M. Hanif Nadhif, ST	2 x 50 minute
GD9	<i>Pitching Seminar & Business Plan Preparation</i>	dr. Anindya Pradipta Susanto, B.Eng, MM	2 x 50 minute

Plenary

P	Title	Resource Persons	Time Allocation
P1	Problem Identification & Ideation	dr. Ardi Findyartini, PhD	2 x 50 minute
P2	Prototype & Business Canvas Model	Prasandhya A. Yusuf, SSi, MT, PhD & dr. Anindya Pradipta Susanto, B.Eng, MM.	2 x 50 minute

Field Trip

KL	Title	Tutor	Time Allocation
KL1	Health Problem & Empathize	dr. Ardi Findyartini, PhD	4 x 50 minute
KL2	Protototype Testing	ir. M. Hanif Nadhif	4 x 50 minute
KL3	Medical Techno-sociopreneur Model	dr. Irzan Nurman, MSc, Acp, CI, CMC, CCP, MNLP	4 x 50 minute