Course Syllabus for Bioeconomy Management and Entrepreneurship (SCBE225)

Credi: 3(2-3-5)
Lecture Time: Thursdays 13:00-15.00 o'clock (SC1-161)
Lecturer: Pahol Kosiyachinda
Google class code: basx4hzm
Class materials: https://classroom.google.com/c/ODM1ODYzMjI5OTM4?cjc=basx4hzm

This course introduces students to the principles of the bioeconomy and the role of entrepreneurship in transforming biological resources into sustainable products and services. Emphasis is placed on the integration of biological science knowledge with management concepts innovation systems and environmental responsibility. Students will explore bio based value chains business models policy frameworks and real world applications through lectures, case studies, practical workshops, and project based learning.

Date		Topic	Lecturer
8	Jan	Introduction to the bioeconomy definition scope and importance	MM
15	Jan	Biological resources and sustainability concepts	MM
22	Jan	Bioeconomy sectors and global trends	MM
29	Jan	Value chains in the bioeconomy from resource to consumer	MM
5	Feb	Introduction to management for science based enterprises	PK
12	Feb	Entrepreneurship concepts and entrepreneurial mindset	PK
19	Feb	Innovation intellectual property and technology transfer	PK
26	Feb	Market analysis and consumer needs for bio products	PK
5	Mar	Policy regulation and ethics in the bioeconomy	PK
12	Mar	Financial basics for bio based startups	PK
19	Mar	Risk management and environmental impact assessment	PK
26	Mar	Communication pitching and stakeholder engagement	PK
2	Apr	Bioeconomy case studies in Thailand and Southeast Asia	PK
23	Apr	Course summary and future careers in the bioeconomy	PK
30	Apr	*Examination*	

Note:

MM = Asst. Prof. Metha Meetam

PK = Lect. Pahol Kosiyachinda

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Laboratory Time: Thursdays 15:00-18:00 o'clock (SC3-300)
Lecturer: Pahol Kosiyachinda

Date		Topic	Lecturer
8	Jan	Orientation discussion on bioresources	MM
15	Jan	Mapping local bioresources and environmental assets	MM
22	Jan	Case study analysis of successful bioeconomy products	MM
29	Jan	Value chain mapping exercise	MM
5	Feb	Basic management tools for small bio based projects	PK
12	Feb	Idea generation workshop for bio based business ideas	PK
19	Feb	Business model canvas applied to bio based ideas	PK
26	Feb	Simple intellectual property awareness exercise	PK
5	Mar	Market research simulation and survey design	PK
12	Mar	Discussion on environmental regulation and sustainability	PK
19	Mar	Cost estimation and basic budgeting exercise	PK
26	Mar	Risk identification for student project ideas	PK
2	Apr	Pitch preparation and presentation rehearsal	PK
23	Apr	Final project consultation and refinement	PK
30	Apr	Final project presentation	

Laboratory technician:

Ms. Wanrada Wangruangklang

Evaluation

TQF	Evaluation Method	Week	Proportion
1	- Participation/Activities - Attendance/Attention	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	30 %
2	- Laboratory	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	30%
3	- Project	1, 2, 3, 4, 5, 6, 7, 8	20 %
4	- Examination	9, 10, 11, 12, 13, 14, 15, 16	20 %