Module Handbook

Modul Name	Teratology
Modul Level	Bachelor
Abbreviation, If applicable:	BIS 320
Subheading, if applicable:	-
Courses included in the	-
module, if applicable:	
Semester	Even
Module Coordinator	Prof. Win Darmanto, M.Si, Ph.D.
Lectures	Prof. Win Darmanto, M.Si, Ph.D.
Language	Bahasa Indonesia
Classification within the	Compulsory Course / Elective Studies
curriculum:	
Teaching format/ classhours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-
	assignment x 13 weeks; total 3900 min = 65 hours
	65/25 = 2.6 ECTS
Credit point	2
Requirements	Vertebrate Embryology
Learning goals/competencies	General Competence (Knowledge)
	Students are able to infer the occurrence of birth defects that
	caused by teratogens properly.
	Specific Competence
	1. Students are able to explain the basic principles, the
	2. Studente ere able to eveloin the incidence of hinth defects and
	2. Students are able to explain the incidence of birth defects and the factor (materials that affect their appearance)
	2. Students are able to analyze the sause of the incident of hirth
	defect that is different from one region to other region from
	the data of one bospital to another
	A Students are able to explain organogenesis timing during
	embryo development
	5. Students are able to analyze the critical period of
	organogenesis which could cause birth defects
	6. Students are able to analyze the timing of when the drug is
	given during teratogenic test.
	7. Students are able to explain the mechanism of birth
	abnormalities in general
	8. Students are able to analyze any abnormalities that occur due
	to the teratogenic substance that is exposed to certain future
	9. Students are able to explain the process of abnormalities of
	the brain and head area
	10. Students are able to explain the process of abnormalities of
	the spinal cord and spine
	11. Students are able to explain the process of abnormalities of
	limbs and body regions
	12. Students are able to explain the process of digestive system
	disorders
	13. Students are able to explain the process of abnormalities of
	cardiovascular system

	14. Students are able to explain the process of abnormalities of
	urogenital system
	15. Students are able to explain how to handle experimental
	animals in teratology experimental procedure
	16. Students are able to explain treatment method
Content	Evaluining the definition of teratology and the incidence of
content	disability determination: to evplain organogenesis: teratogen
	administration to determine and to explain the mechanisms of
	fotal defects and abnormalities in the regions of brain, spinal cord
	head body limbs cardiovascular system urogenital system and
	the disective system, to exect a dreft of terretogenia system, and
	the digestive system; to create a draft of teratogenic testing,
	experimental teratology, and discuss the research journal
	teratology.
Soft skill Attribute	Discipline and Argumentation
Study/ exam achievements	Students are considered to be competent and pass if at least get
	40% of maximum. Final score (NA) is calculated as follow: Paper
	project (30%), mid exam (30%), final exam (30%), and soft skill
	(10%)
	Final index is defined as follow:
	A : 75 - 100
	AB : 70 - 74.99
	B : 65 - 69.99
	BC : 60 - 64.99
	C : 55 - 59.99
	D : 40 - 54.99
	E : 0 - 39.99
Form of media	LCD
Learning Method	Class and discussion
Literature	a. Carlson, BM. 1988. Patten' s foundation of embryology,
	McGraw-Hill Book Co. New York
	b. Rugh, R. 1968. The mouse, its reproduction and development,
	Burgess PC. Mineapolis.
	c. Taylor, P. 1986. <i>Practical Teratology</i> , Academic Press, London.
	d. Langman, 1980. <i>Medical embryology</i> , The William & Wilkins Co.
	Baltimor
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