

PROGRAM STRUCTURE

LEVEL	: Graduate
SCHOOL	: School of Science
PROGRAM	: 607110822 : Doctor of Philosophy Program in Materials Innovation (Plan 2.2)
PROGRAM YEAR	: 2560
PHILOSOPHY	
<p>This programme aims at formulating bodies of knowledge and advanced researching processes in the field of materials innovation, to enable its graduates to apply their good materials innovation foundations to conducting research and concretely creating beneficial innovations.</p>	
PURPOSE	
<ol style="list-style-type: none"> 1. Extensive knowledge and strong foundations of materials innovation, with initiatives and keenness to conduct research as a means of developing new bodies of knowledge; 2. Understanding of the concept of modern entrepreneurship and of the process of applying research findings to creating innovations that offer social and economic contributions. 	

1 Dissertation MINIMUM CREDIT : 48

Course Code	COURSE	CREDIT
<u>1108999</u>	Dissertation	48 (0-144-48)

2 Required Course MINIMUM CREDIT : 15

Course Code	COURSE	CREDIT
<u>1108761</u>	Research Methodology and Ethics	3 (3-0-6)
<u>1108762</u>	Development of Innovative Materials	2 (2-0-4)
<u>1108763</u>	Advanced Materials	3 (3-0-6)
<u>1108764</u>	Properties and Testing of Materials	3 (2-3-5)
<u>1108765</u>	Materials Characterization	4 (3-3-7)

3 Elective Course MINIMUM CREDIT : 9

Course Code	COURSE	CREDIT
<u>1108771</u>	Eco-materials	3 (3-0-6)

<u>1108772</u>	Trends in Materials Innovation	3 (3-0-6)
<u>1108773</u>	Nanomaterials	3 (3-0-6)
<u>1108774</u>	Materials for Energy Storage	3 (3-0-6)
<u>1108775</u>	Emerging Construction Materials	3 (3-0-6)
<u>1108776</u>	Biomedical Materials	3 (3-0-6)

4 Seminar Course MINIMUM CREDIT : -

Course Code	COURSE	CREDIT
<u>1108985</u>	Seminar in Materials Innovation 1	0 (0-3-1)
<u>1108986</u>	Seminar in Materials Innovation 2	0 (0-3-1)

REMARKS

P : Prerequisite Course

E1 : One-way Equivalent

E2 : Two-way Equivalent

รายวิชา 1006393 Principles of Translation 3(3-0-6) ในกรณีที่นักศึกษาไม่สามารถใช้ภาษาไทยได้ ให้เรียนรายวิชา 1006382 Directed Studies แทน

รายวิชา 1006397 Comparative Study of English and Thai 3(3-0-6) ในกรณีที่นักศึกษาไม่สามารถใช้ภาษาไทยได้ ให้เรียนรายวิชา 1006381 Selected Reading แทน