

## **Doctor of Philosophy Program in Design and Planning (International Program)**

Ph.D. (Design and Planning) (International Program)

### **Philosophy:**

School of Architecture and Design at King Mongkut's University of Technology is the first International design school in Thailand to offer a doctor of philosophy (PhD) in design and planning. The aim of the program is to create a disruptive design innovator who contribute to create new design knowledge based on research. After finishing the program, the graduate students are able to adapt themselves and learn fast in the digital era. Students are able to create a disruptive design innovation with a long vision, holistic view of system and knowledge connection. Moreover, they have an in depth understanding in problem solving, understand their own field and integrate other disciplines.

### **Objectives:**

1. Innovators who able to design a disruptive Innovation through the research topics from industry/community.
2. Professional in design and well-round other discipline in order to integrate skill and knowledge.
3. Thinkers who can solve the design problem that is complex. They can think systematically and explain the holistic view that leads to innovation.
4. Enhancing their professional with the life-long learning and ready to the change of digital era.
5. Skillful in communication related to design and excellent in academic writing and presenting their research

### **Qualifications of a prospective candidate:**

1. Holds a Master's degree in related field
2. Additional qualifications include
  - have passed the TETET (Test of English for Thai Engineers and Technologists)  $\geq 5$  or TOEFL iBT = 79-95 or equivalences IELTS = 6.00 or equivalences (within 2 years of taking the exam), Otherwise students have to take LNG601 within 3 semesters during studying
  - a GPA not less than 3.50 in Master's Degree, or
  - Three-year work experience, or
  - holding the empirical and practical design work

- holding a research proposal and the recommendation letter of the KMUTT professor in Doctor of Philosophy Program in Design and Planning

#### Professions after graduation:

1. Inventor
2. Design entrepreneur
3. Lecturers and Technical Officer
4. Researchers in industrial and government sectors
5. Specialized experts in advising public and private institutions
6. Architects and designers, independent creative professionals
7. Urban designer, design manager
8. Startup entrepreneurs

#### Course Structure

##### Curriculum

**Total Program Credits                      48 Credits For Master Students**

#### Course Structure

A. Compulsory Courses	8 Credits
B. Seminar Course	1 Credits
C. Elective Courses	3 Credits
D. Dissertation	36 Credits

#### Subjects

<b>A. Compulsory Courses</b>	<b>8 Credits</b>
DPL 771 Design Disruptive Innovation	3(3-0-9)
DPL 772 Data Analytics in Innovative Research	3(3-0-9)
DPL 775 Maker Space	2(0-4-6)
<b>B. Seminar Course</b>	<b>1 Credits</b>
DPL 773 Forum for PhD Research	1(0-2-3)
<b>C. Elective Courses</b>	<b>3 Credits</b>
DPL 774 Learning in Digital Age	3(3-0-9)
DPL 776 Writing Research Article for Publication	3(3-0-9)

## D. Dissertation

36 Credits

DPL 800 Dissertation

36 Credits

## Study Plan

### Year 1 Semester 1

DPL 771 Design Disruptive Innovation

3(3-0-9)

DPL 772 Data Analytics in Innovative Research

3(3-0-9)

Total

6(6-0-18)

### Year 1 Semester 2

DPL 775 Maker Space

2(0-4-6)

DPL 773 Forum for PhD Research

1(0-2-3)

XXX XXX Elective I

3(X-X-X)

Total

6(x-6+x-9+x)

### Year 2 Semester 1

DPL 800 Dissertation

9(0-18-36)

Total

9(0-18-36)

### Year 2 Semester 2

DPL 800 Dissertation

9(0-18-36)

Total

9(0-18-36)

### Year 3 Semester 1

DPL 800 Dissertation

9(0-18-36)

Total

9(0-18-36)

### Year 3 Semester 2

DPL 800 Dissertation

9(0-18-36)

Total

9(0-18-36)