

## Master of Engineering (Irrigation Engineering)

The 2 years programme consists of at least 36 credits for which students can choose on one of following 2 plans:

### Plan Kor 1 (Non-courseworks)

The total minimum requirement 36 credits

a. Major courses	not less than	5 credits (Non-credit)
- Required course		3 credits (Non- credit)
- Seminar		2 credits (Non-credit)

b. Thesis not less than 36 credits

### Courses

a. Major courses	not less than	5 credits (Non-credit)
- Required course		3 credits (Non-credit)
- Seminar		2 credits (Non-credit)
02201597 Seminar		1,1,1,1
b. Thesis	not less than	36 credits
02201599 Thesis		1-36

## Plan Kor 2 (Courseworks + Thesis)

The total minimum requirement		36 credits
a. Major courses	not less than	24 credits
- Required courses		9 credits
- Technical elective	not less than	13 credits
-Seminar	not less than	2 credits
b. Thesis	not less than	12 credits

## Courses

a. Major courses	not less than	24 credits
- Required courses		9 credits
- Technical elective		13 credits
- Seminar		2 credits
02201597 Seminar		1,1
- Required courses		9 credits
02207511 Irrigation Science and Technology		3 (3-0)
02207551 Computational Methods in Irrigation Engineering		3 (3-0)
02207591 Research Techniques in Irrigation Engineering		3 (3-0)
- Technical elective	not less than	13 credits

Choose at least 9 units from the irrigation programme in the 500 series and above, and choose at least 4 units from the graduate course that relate to the programme, as following:

02207512 Advanced Hydrology in Irrigation Engineering	3 (3-0)
02207513 Advanced Hydraulics for Irrigation Engineering	3 (3-0)
02207514 Soil Water Movement and Drainage	3 (3-0)
02207515 Groundwater Modeling and Management	3 (3-0)
02207516 Modeling of Hydraulic System	3 (3-0)
02207521 Surface Irrigation Engineering	3 (3-0)
02207522 Sprinkler Irrigation Engineering	3 (3-0)
02207523 Micro-Irrigation Engineering	3 (3-0)

02207524	Paddy Field Engineering	3 (3-0)	
02207531	Project Planning and Assessment	3 (3-0)	
02207541	Irrigation System Management	3 (3-0)	
02207542	System Analysis and Modeling in Irrigation Engineering	3 (3-0)	
02207543	Optimization Approaches in Irrigation Project Development	3 (3-0)	
02207552	Artificial Intelligence in Irrigation Engineering	3 (3-0)	
02207555	Geographic Information System for Irrigation Engineering	3 (3-0)	
02207556	Remote Sensing in Irrigation Engineering	3 (3-0)	
02207561	Irrigation and Environment	3 (3-0)	
02207596	Selected Topics in Irrigation Engineering	1-3	
02207598	Special Problems	1-3	
<b>b. Thesis</b>		<b>not less than</b>	<b>12 credits</b>
02201599	Thesis	1-12	