

(Pongsert.sr@kmitl.ac.th)

Tentative Schedule:

Week	Date	Lecture	Teaching method	Date	Laboratory	Teaching method	Lecturer
1	5 Aug 2020	- Orientation - Natural water resources - Characteristics and quality index of water	Online	6 Aug 2020	- Laboratory guide - Material and chemical preparation	Classroom	Aphacha/ Wiramsri
2	12 Aug 2020	The Queen Mother's Birthday (Official Holiday)	-	13 Aug 2020	Analysis of water hardness	Classroom	Wiramsri
3	19 Aug 2020	Water quality standard and analysis	Online	20 Aug 2020	Analysis of iron in water	Classroom	Wiramsri
4	26 Aug 2020	Treatment for drinking water quality	Online	27 Aug 2020	Analysis of total alkalinity	Classroom	Wiramsri
5	2 Sep 2020	Treatment for drinking water quality (continued)	Online	3 Sep 2020	Analysis of residual chlorine in water Jar test	Classroom	Wiramsri
6	9 Sep 2020	Treatment for drinking water quality (continued)	Online	10 Sep 2020	Field trip (Wiramsri, Aphacha, Pongsert)	Field trip	Wiramsri
7	16 Sep 2020	- Characteristics of wastewater - Principles of wastewater treatment - Standards of treated wastewater	Online	17 Sep 2020	Analysis of solids in wastewater	Classroom	Aphacha
8		Mid-Term Exam (21 -27 Sep 2020)					
9	30 Sep 2020	Physical wastewater treatment	Online	1 Oct 2020	Dissolved oxygen (DO) analysis	Classroom	Aphacha
10	7 Oct 2020	Chemical wastewater treatment	Online	8 Oct 2020	- Biochemical oxygen demand (BOD) analysis - Chemical oxygen demand (COD) analysis	Classroom	Aphacha

11	14 Oct 2020	Biological wastewater treatment	Online	15 Oct 2020	- Biochemical oxygen demand (BOD) analysis - Chemical oxygen demand (COD) analysis	Classroom	Aphacha
12	21 Oct 2020	- Water reuse - Sludge treatment and disposal	Online	22 Oct 2020	Monitoring parameter analysis in wastewater	Classroom	Aphacha
13	28 Oct 2020	Design of physical wastewater treatment systems	Classroom	29 Oct 2020	Field trip (Wiramsri, Aphacha, Pongsert)	Field trip	Pongsert
14	4 Nov 2020	Design of wastewater treatment systems (oxidation pond and activated lagoon)	Classroom	5 Nov 2020	Design of wastewater treatment systems (oxidation pond, activated lagoon)	Classroom	Pongsert
15	11 Nov 2020	Design of wastewater treatment systems (activated sludge)	Classroom	12 Nov 2020	Design of wastewater treatment systems (activated sludge)	Classroom	Pongsert
16	18 Nov 2020	Design of wastewater treatment systems (RBC)	Classroom	19 Nov 2020	Design of wastewater treatment systems (RBC)	Classroom	Pongsert
17	25 Nov 2020	Design of wastewater treatment systems (anaerobic digestion)	Classroom	26 Nov 2020	Design of wastewater treatment systems (anaerobic digestion)	Classroom	Pongsert
18		Final Exam (30 Nov - 10 Dec 2020)					

