

**Bridge Analysis, Design and Structural Health
Course Schedule**
March 27 to 29, 2017
Smart Park Event Centre

Day 1 – Monday, March 27, 2017		
8:30 – 9:00	<i>Continental Breakfast</i>	
09:00 - 10:30	Welcome & Introductions Vehicle loads Use of program TRUCK Design vehicle	DS BB AM, HK BB
10:30 - 10:50	<i>Coffee</i>	
10:50 - 12:20	Philosophy of bridge design Analysis by manual calculations	BB BB
12:20 - 13:10	<i>Lunch</i>	
13:10 - 14:40	Analysis by semi-continuum method Use of program SECAN	BB AM, HK
14:40 - 15:00	<i>Coffee</i>	
15:00 – 16:30	Analysis by orthotropic plate method Use of program PLATO	BB AM, HK
Day 2 – Tuesday, March 28, 2017		
8:30 – 9:00	<i>Continental Breakfast</i>	
09:00-10:30	Arching in reinforced concrete deck slabs Arching in deck slabs without tensile reinforcement	AM BB
10:30 - 10:50	<i>Coffee</i>	
10:50 - 12:20	Fatigue in deck slabs Analytical method for analyzing deck slabs Use of program PUNCH	BB AM AM, HK
12:20 - 13:10	<i>Lunch</i>	
13:10 - 14:40	Analysis of cantilever slabs Use of program ANDECAS Arching in cantilever slabs	BB AM, HK AM
14:40 - 15:00	<i>Coffee</i>	
15:00 – 16:30	FRP in bridges plus Use of Design Manual 3 Rehabilitation with FRP plus Use of Design Manual 4	BB, AM BB, AM
Day 3 – Wednesday, March 29, 2017		
8:30 – 9:00	<i>Continental Breakfast</i>	
09:00-10:30	Soil-steel bridges Timber bridges	BB BB
10:30 - 10:50	<i>Coffee</i>	
10:50 - 12:20	Evaluation of bridges (S6) Evaluation of an existing bridge (new approach) Evaluation of Fatigue Cracks in Steel Girders	BB BB AM
12:20 - 13:10	<i>Lunch</i>	
13:10 - 14:40	Structural health monitoring and Civionics Engineering	AM
14:40 - 15:00	<i>Coffee</i>	
15:00 – 16:30	Weighing-in-motion Bridge aesthetics	BB AM