Module		Week	Hr		Topic	Instructor	Assignment
I	Form finding	Week 1 (2/24)	1	**Lecture 1**	**Form finding of Funicular Shell Structures**	**Dr. Juney Lee**	Assignment 0
			2	Tutorial 1	Form finding with compas-RV2	Dr. Juney Lee	
			3				
II	Geometry	Week 2 (3/3)	1	Tutorial 2	Procedural thiking: logic diagrams, flow charts, pseudocodes, Introduction to Jupyter Notebook, Introduction to the Python programming language	Serban Bodea and Chaoyu Du	Assignment 1
			2				
			3	Work Session 2	*Ex. 2.1 Cost of cablenet elements* *Ex. 2.2 Check voussoir weight*	Chaoyu Du	
		Week 3 (3/10)	1	Tutorial 3	Coding in Python: data types, for-loops, conditionals	Serban Bodea and Chaoyu Du	
			2	Work Session 3	*Ex. 3.1 Organising your design data* *Ex. 3.2 Managing your design data*	Chaoyu Du	
			3				
		Week 4 (3/17)	1	Tutorial 4	Introduction to computational geometry in COMPAS Geometry and Class in COMPAS	Serban Bodea and Chaoyu Du	
			2				
			3	Work Session 4	*Ex. 4.2 Visualising Geometries using the Compas Plotter*	Chaoyu Du	
		Week 5 (3/24)	Seminar week				
III	Materialisation	Week 6 (3/31)	1	**Lecture 2**	**Geometry, Rationalization & Materialization**	**Dr. Juney Lee**	Assignment 2
			2	Tutorial 5	Introduction to The Mesh Half-edge data structure	Dr. Juney Lee and Chaoyu Du	
			3	Work Session 5	*Ex. 5.1 Segmented shell from Mesh Half-edge data structure* *Ex. 5.2 Visualizing the Mesh Half-edge data structure with COMPAS*	Dr. Juney Lee and Chaoyu Du	
		Week 7 (4/7)	1	Tutorial 6	Operations with the Mesh Half-edge data structure	Dr. Juney Lee and Chaoyu Du	
			2	Work Session 6	*Ex. 6.4 Mesh Topological Modification on vertices and faces* *Ex. 6.4a Topology modification through deletion* *Ex. 6.4 Mesh Topological Modification on vertices and faces* *Ex, 6.4b Topology modification through subdivision*	Dr. Juney Lee and Chaoyu Du	
			3				
		Week 8 (4/14)	1	Tutorial 7	Geometry rationalization and materialization methods for funicular structures: Case Studies	Dr. Juney Lee and Chaoyu Du	
			2	Work Session 7	*Ex. 7.1 Rationalization and materialization methods for meshes*	Dr. Juney Lee	
			3				
		Week 9 (4/21)	Easter				
IV	Fabrication	Week 10 (4/28)	1	**Lecture 3**	**Introduction to Computer Assisted Manufacturing for Architecture Engineering and Construction**	**Serban Bodea**	Assignment 3
			2	Tutorial 8	Subtractive Manufacturing methods	Serban Bodea	
			3	Work Session 8	*Ex. 8.1 Material selection* *Ex. 8.2 Subtractive method selection* *Ex. 8.3 Process workflow* *Ex. 8.4 Fabrication and machine constraints*	Selina Bitting and Chaoyu Du	
		Week 11 (5/5)	1	Tutorial 9	Introduction to Hotwire Cutting	Chaoyu Du	
			2	Work Session 9	*Ex. 9.1 Orient Block for Cutting* *Ex. 9.2 Add Geometry of Cutting Material* *Ex. 9.3 Place Block w/ Cutting Material on Machine Bed* *Ex. 9.4 Generate Wire Cutter Path & Output*	Chaoyu Du and Selina Bitting	
			3				
		Week 12 (5/12)	1	Tutorial 10	Introduction to Milling	Selina Bitting	
			2	Work Session 10	*Ex. 10.1 Orient blocks in panel* *Ex. 10.2 Place panels w/ blocks on Machine Bed* *Ex. 10.3 Generate CNC Paths & Output*	Selina Bitting and Chaoyu Du	
			3				
		Week 13 (5/19)	1	**Lecture 4**	**Guest lecture: Dr. Catherine De Wolf**		
			2		Project presentations		
			3				