

Curriculum 2019-2020 for the students coming from the AIT
(27.6.2019)

Wireless Communications Engineering – Radio Access and Networks															
DD-WCE–RAN study option															
Code of the course	Name of the course	Course credits	Suggested timing												
			First year (at AIT)						Second year (at UOulu)						
			Fall		Spring		Summer		Fall		Spring		Summer		
			1	2	3	4	June	July	August	1	2	3	4	June	July
Obligatory Studies, Total 18 AIT crs + 45 ECTS crs															
AT77.02	Signals, Systems and Stochastic Processes	3	x												
AT77.04	Data Communications	3	x												
AT77.19	Optimization for Communications and Networks	3	x												
AT77.13	Digital Communications	3			x										
AT77.17	Network QoS	3			x										
AT77.07	Cellular Mobile Systems	3			x										
521324S	Statistical signal processing II	5										x			
521349S	Wireless Communications II	5										x			
521326S	Radio Engineering I	5								x					
521998S	Master's Thesis	30											x		
Elective Studies, Total ≥ 7 AIT cr + 15 ECTS crs															
AT80.9007	Seminar in Information and Communications	1					x								
AT80.9011	Internet of Things Laboratory	1	x												
AT77.9019	Cross-Layer Design for Wireless Networks	3	x												
AT77.9009	Discrete-Time Statistical Signal Processing *	3			x										
AT77.18	Optical Networks	3			x										
AT77.11	Digital Modulation Techniques	3				x									
900017Y	Survival Finnish Course I (on both semester) *	2								x		x			
900013Y	Beginner's Finnish Course I (on both semester)	3									x		x		
900053Y	Beginner's Finnish Course II	5										x			
521386S	Radio channels *	5									x				
521369A	Simulations and tools for telecommunications *	5									x				
521327S	Radio engineering II	6										x			
521377S	Communications networks II *	7											x		
521388S	Antennas *	5											x		
521279S	Signal processing systems	5										x			
521322S	Telecommunication engineering project OR	5									x				

AIT crs

ECTS crs

Master's Degree at AIT is 49 AIT crs. The first study year in DD-WCE study program is 25 crs which is 50 % of the whole study load at the AIT.

Master's Degree at UOulu is 120 ECTS crs. The second study year in DD-WCE study program is 60 crs which is 50 % of the whole study load at the UOulu.

