

Curriculum 2021-2022 for the students coming from the UoP
(26.10.2020)

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 UoP)						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 24 UoP crs + 42 ECTS crs																
EE 669	Optimization of Communication Systems	3				x										
EE 664	Random Signal Analysis in Communications and Signal Processing	3				x										
EE 663	Advanced Digital Communications	3				x										
EE 665	Data Networks	3				x										
EE 681	Microwave Communications	3				x										
EE 680	Wireless Communication Systems	3				x										
EE 683	Advanced Technologies in Telecommunications	3				x										
EE 686	Advanced Digital Signal Processing	3				x										
900017S	Survival Finnish (on the first or the second period)	2							x	x						
521324S	Statistical Signal Processing II	5									x					
521349S	Wireless Communications II	5									x					
521998S	Master's Thesis	30											x			
521362S	Electronics and Communications Engineering Seminar	0												x		
521007S	Maturity Test for Master's Degree	0												x		
Elective Studies, Total ≥ 6 UoP crs + ≥ 18 ECTS crs																
EE 687	Internetworking	3				x										
EE685	Antenna Theory and Design * **	3				x										
EE 684	Telecommunication Regulation, Policy and Management	3				x										
EE 682	Optical Communication Systems	3				x										
900013Y	Beginner's Finnish Course I	3												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			
521390S	Information Theory	5									x					
521389S	Wireless Body Area Networks	5									x	x				
521394S	Multiantenna Communications	5								x						
521279S	Signal Processing Systems	5										x				
521322S	Telecommunication Engineering Project OR	5									x					
521300S	Electronics Design and Construction Exercise	6									x					
52119XS	Modern Topics in Telecommunications and Radio Engineering	3-7										x				
521097S	Wireless Measurements	5											x			
521225S	RF Components and Measurements	5												x		
521401S	Electronics Design II	6								x						
521435S	Electronics Design III	6									x					
521405S	Electronic System Design	5								x						
521402S	Telecommunication Circuit Design	5											x			
521273S	Biosignal Processing	5									x					
521145A	Human Computer Interaction	5									x					
521279S	Signal Processing Systems	5									x					
521148S	Ubiquitous Computing Fundamentals	5									x					
521281S	Application Specific Signal Processors	5									x					
521140S	Computer Graphics	7												x		
521290S	Distributed Systems	5										x				
521466S	Machine Vision	5										x				
521044A	Social Computing	5														
521260S	Programmable Web Project	5											x			
521479S	Software Project	7										x				

UoP crs
ECTS crs

Master's Degree at UoP is 60 UoP crs. The first study year in DD-WCE study program is 30 crs which is 50 % of the whole study load at the UoP.

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.

* recommended ** alternative courses