

Curriculum 2020-2021 for the students coming from the UoP
(14.1.2020)

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 + 40 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							
5213245	Statistical Signal Processing II	5													x	
5213495	Wireless Communications II	5													x	
5219985	Master's Thesis	30														x
5213625	Electronics and Communications Engineering Seminar	0														x
5210075	Maturity Test for Master's Degree	0														x
Elective Studies, Total ≥ 6 UoP crs + ≥ 20 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							
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	
5213865	Radio Channels *	5													x	
521369A	Simulations and Tools for Telecommunications *	5													x	
5213275	Radio Engineering II	6														x
5213775	Communications Networks II *	7														x
5213885	Antennas * **	5														x
5212795	Signal Processing Systems	5														x
5213225	Telecommunication Engineering Project OR	5														x
5213005	Electronics Design and Construction Exercise	6														x
5213185	Modern Topics in Telecommunications and Radio Engineering	3-7														x
5210975	Wireless Measurements	5														x
5212255	RF Components and Measurements	5														x
5214015	Electronics Design II	6													x	
5214355	Electronics Design III	6													x	
5214055	Electronic System Design	5													x	
5214025	Telecommunication Circuit Design	5														x
5212735	Biosignal Processing	5														x
521145A	Human Computer Interaction	5														x
5212795	Signal Processing Systems	5														x
5211485	Ubiquitous Computing Fundamentals	5														x
5212815	Application Specific Signal Processors	5														x
5211405	Computer Graphics	7														x
5212905	Distributed Systems	5														x
5214665	Machine Vision	5														x
521044A	Social Computing	5														x
5212605	Programmable Web Project	5														x
5214795	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