

**Kathmandu University**  
**School of Engineering**  
**Department of Electrical and Electronics Engineering**

Courses for Master of Engineering in Communications Engineering [Effective from August 2006 intake]

Year I Semester I				Year I Semester II			
Course Code		Course Name	Cr.	Course Code		Course Name	Cr.
ECPG	501	Wireless Communications	3	ECPG	504	Telecommunication Networks	3
ECPG	502	Digital Communication Systems	3	ECPG	505	Data Communication Technologies	3
ECPG	503	Random Processes	3	ECPG	506	Digital Signal Processing	3
ECPG	560	Information Theory and Coding*	3	ECPG	530	RF and Microwave Engineering*	3
ECPG	500	Tools and Techniques for Research Projects	3	ECPG	510	Project Work	3
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>
Year II Semester I				Year II Semester II			
ECPG	***	Offered 1*	3	ECPG	580	Dissertation Work	15
ECPG	***	Offered 2*	3				
ECPG	***	Offered 3*	3				
ECPG	520	Project Work	6				
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>

\* Elective or specialization courses, depends on the actual courses offered.

**Approved Elective/Specialization Courses:** ECPG 530 RF and Microwave Engineering, ECPG 531 Ultra Wide Band Communication, ECPG 532 Multimedia Communications, ECPG 533 Spread Spectrum Communication, ECPG 534 Antenna Design, ECPG 535 Satellite Communications and Broadcasting, ECPG 536 RF System Design, ECPG 537 Advanced Wireless Networks, ECPG 538 Broadband Fiber Optic Communication, ECPG 550 Resource Management in Telecommunication Networks, ECPG 551 Mobile Communication Systems and Services, ECPG 552 Tele-traffic Engineering, ECPG 553 Telecommunications Network Planning, ECPG 554 Telecommunications Quality of Service, ECPG 555 Cellular Network Planning, ECPG 556 Simulation of Communication Systems, ECPG 557 Telecommunications Regulation ECPG 560 Information Theory and Coding, ECPG 561 Complex Digital Systems Design, ECPG 562 Adaptive Signal Processing, ECPG 563 Signal Processing in Wireless Communication, ECPG 564 Statistical Signal Processing, ECPG 565 Space Time Coding, ECPG 566 Cryptography, ECPG 567 Algorithms for Communication Systems, ECPG 568 Embedded Systems, and other elective/specialization courses offered at the School of Engineering