

Grades for course modules are awarded based on continuous assessment and assignments and end-of-term examinations, according to Senate-approved guidelines.

Grade Points are assigned as follows for the purpose of calculating the GPA.

Grade	GradePoints	Evaluation
A+	4.2	
A	4.0	Excellent
A-	3.7	
B+	3.3	
B	3.0	Good
B-	2.7	
C+	2.3	Pass
I	0.0	Incomplete
F	0.0	Fail
N	0.0	Academic Concession

The GPA is calculated according to the formula:

$$GPA = \frac{\sum (\text{Grade Points} * \text{Credits})}{\sum \text{Credits}}$$

Eligibility

1. B.Sc. Engineering degree of University of Moratuwa, in a relevant field as judged by the Faculty and approved by the Senate,
OR
2. Any other Engineering degree in a relevant field and equivalent to (1) as judged by the Faculty, and approved by the Senate,
OR
3. A professional qualification of a recognized professional institute in a relevant field AND a minimum of one year of appropriate experience after obtaining such qualification: the acceptability of the professional qualification of the candidate, the recognition of the institute and the relevancy of the field for this purpose shall be judged by the Faculty and approved by the Senate.

Course Fees

Local Students

Application fee	Rs.	1000.00*
PG Diploma Fee - 1st Year	Rs.	300,000.00
MSc Research - 2nd Year	Rs.	75,000.00
Total Course Fee	Rs.	375,000.00
Registration Fee: First Year	Rs.	1,000.00
Second Year	Rs.	500.00
Examination Fee:	Rs.	500.00
Library Deposit (Refundable)	Rs.	2,500.00

Note that foreign students are required to pay Rs. 200,000.00 in addition to the above fees.

*May be paid by a pay-in voucher from Bank of Ceylon (Account No. 70993353) in favour of PG Diploma/MSc Telecommunication 2015, University of Moratuwa or at the Shroff's counter at the University.

Few scholarships maybe available for selected candidates on merit and need basis.

Programme Duration

M.Sc. is a six term, two year part time or three term, one year full time course.

Application Procedure

Application forms and further details are available at <http://www.ent.mrt.ac.lk/msc-telecom>.

Applications should be sent to:

The Course Coordinator
PG Diploma/MSc in Telecommunications
Department of Electronic & Telecommunication Engineering
University of Moratuwa
Moratuwa

Closing Date for Applications is 30th January 2015.

Interviews for Short Listed Applicants will be held on 07th February 2015 Morning Session.

For more information please contact:

Dr. Chandika Wavegedara
Course coordinator
PG Diploma/MSc in Telecommunications
Email: chandika@ent.mrt.ac.lk
Tel: +(94)-11-2650634 ext. 3300 or 3311
Web: <http://www.ent.mrt.ac.lk/msc-telecom>



University of Moratuwa

Sri Lanka

Department of Electronic & Telecommunication



PG Diploma/MSc in Telecommunication 2015

Tel: +(94)-11-2650634 (ext. 3300 or 3311)
Web: <http://www.ent.mrt.ac.lk/msc-telecom>
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For further
information
please visit
our website:

www.ent.mrt.ac.lk/msc-telecom



The Department of Electronic & Telecommunication Engineering

The Department of Electronic & Telecommunication Engineering established in 1969, is unique in offering a BSc Engineering degree in Sri Lanka in this specialization. As such, entry to the department is highly competitive. It is the mission of the department to develop in its students, the knowledge and the engineering skills necessary to be highly sought-after in, and to keep pace with, the rapidly advancing Electronics & Telecommunication industry.

The Department offers BSc Engineering course with an intake of 100 students. This course aims at providing the students with a good grounding in Electronics and Telecommunications principles, applications and systems design. Of the students entering the University of Moratuwa, those having the best performance at the first year enter the Electronics & Telecommunication field. Not surprisingly therefore, our graduates are highly valued by the telecommunications, industrial electronic and software industries, both Sri Lanka as well as overseas. The postgraduate courses are intended to fill the critical need of providing up-to-date technical knowledge to practicing engineers.

Academic staff of the department have had specialized training abroad in a range of fields of study covering Optoelectronics, Physical Electronics, Digital and Wireless Communications, Biomedical Engineering, Optical Communications, VLSI design, Signal and image Processing, Electromagnetics and Machine vision. Department also carries out postgraduate degree programs (MPhil and Ph.D.) by research in these specialized areas.

Short-term courses are also conducted by the department for Continuing Professional Development (CPD) of engineers and other technical personnel in the field. In addition, the academic staff are often consulted for solutions of problems faced by relevant industries, and present their research at seminars and conferences of professional organizations in their fields of interest.

Postgraduate Diploma/Master of Science in Telecommunications

The programme targets practicing engineers who wish to build and advance their careers in the field of Telecommunications, and also as a stepping stone for those who aspire to pursue advanced research in Telecommunications. The M.Sc./PG Diploma Program in Telecommunications is built around a set of core course modules considered fundamental to a thorough understanding of the broad field of telecommunications, and a set of elective course modules from a larger knowledge base covering the realms of Telecommunication Engineering practice. The course thus enables students to broaden their knowledge depending on the particular industry segment they are employed.

The course also offers students who wish to embark on a research oriented career, a very good grounding as many course modules have a strong research focus dealing with cutting edge research in Wireless and optical Communications and Networks. A Directed Study module prepares them for effective research at the M.Sc. level. Through the program, students have the opportunity to study real world applications of theoretical concepts and algorithms. They conduct modeling, design, analysis and simulation of different communication systems and networks through a wide range of prominent software and hardware tools and platforms. In addition, industry-related projects are carried out by students at both PG Diploma and M.Sc. levels.

This program, in its present form, commenced in February 2005 and has been developed specifically to target engineers who wish to build and advance their careers in this most fast changing and challenging field of study. A major curriculum revision was carried out in 2009-2010 in order to incorporate recent industry trends and technological advancements, and to give students more flexibility in choosing course modules in different areas such as communication theory, communication networks, and technology management.

Programme Structure

MSc in Telecommunications is a two-year part-time degree program. The first year consists of 3 semesters and the most of the taught course modules are offered in the first three semesters of the programme. Lecture sessions will be conducted on weekday (usually Thursday and Friday) evenings at a convenient venue in Colombo and on Saturdays at the University. Laboratory sessions will usually be conducted on Saturdays at the University. Candidates are expected to earn the required number of credits from the core and optional course modules during this period.

Those who successfully complete the exams and other course work will be eligible for the award of the Postgraduate Diploma in Telecommunications. The Master of Science degree requires the completion of a research project during the subsequent three semesters (second year), after obtaining a minimum Grade Point Average (GPA) of 3.0 in the PG Diploma.

Candidates may also complete the MSc in one year on a full-time basis, by carrying out a research project while taking course modules to fulfill the credit requirements for the PG Diploma in the same year.

Curriculum and Evaluation

Total credits required for the PG Diploma is 40, 28 from compulsory modules and 12 from optional modules listed below.

Module Code	Module Name	Credits
Core Modules		
EN5800	Advanced Engineering Mathematics	3.0
EN5460	Statistical Signal Processing	2.0
EN5600	Digital Communications	2.0
EN5360	Advanced Networking Concepts	2.0
EN5650	Microwave Communications	2.0
EN5260	Telecommunication Technology Management	2.0
EN5950	Laboratory Module – 1	2.0
EN5610	Wireless Communications	2.0
EN5810	Tele-Traffic Engineering	2.0
EN5960	Laboratory Module – 2	2.0
EN5970	Research Methods	1.0
EN5980	Directed Study	4.0
EN5990	Project	4.0
EN5760	Emerging Topics in Telecommunications	2.0
EN6000	M.Sc. Research Project	25.0
Optional Modules		
EN5620	Mobile Broadband Communications	2.0
EN5410	IP Core Networking	2.0
EN5630	Wireless Networks and Mobile Computing	2.0
EN5280	Network Management and Planning	2.0
EN5670	Advanced Radar and Navigation Systems	2.0
EN5680	Optical Communications and Networks	2.0
EN5690	Telecommunication Network Security	2.0
EN5820	Information Theory and Its Applications	2.0
EN5370	Network Design	2.0
EN5380	Multimedia Networks	2.0
EN5390	Technologies for Converged Services	2.0
EN5270	Telecommunication Policy and Regulatory Aspects	2.0
EN5660	Advanced Satellite Communications	2.0
EN5470	Advanced Digital Signal Processing	2.0