

KATHMANDU UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GRADUATE PROGRAM (ME in Computer Engineering)

Semester I		Semester II		Semester III		Semester IV	
MAPG 503	3	COMP 503	3	Prescribed 1	3	Thesis	15
COMP 502	3	COMP 505	3	Prescribed 2	3		
COMP 504	3	COMP 559	3	**Problem Assessment Project	9		
Specialized Course 1	3	Specialized Course 2	3				
Interdisciplinary Course 1	3	Interdisciplinary Course 1	3				
Total Credit	15		15		15		15

Core Courses

Course Code	Course Title
MAPG 503	Mathematical Foundation for Computer Science
COMP 502	Design and Analysis of Algorithm
COMP 504	Software Engineering
COMP 503	Advanced Database Management System
COMP 505	Computer Network and Architecture
COMP 559	Distributed System

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GRADUATE PROGRAM (MTECH in Information Technology)

Semester I		Semester II		Semester III		Semester IV	
MAPG 503	3	ITPG523	3	Prescribed 1	3	Thesis	15
ITPG 502	3	ITPG503	3	Prescribed 2	3		
COMP 504	3	COMP559	3	**Problem Assessment Project	9		
Specialized Course 1	3	Specialized Course 2	3				
Interdisciplinary Course 1	3	Interdisciplinary Course 1	3				
Total Credit	15		15		15		15

Core Courses

Course Code	Course Title
MAPG 503	Mathematical Foundation for Computer Science
ITPG 502	Data structure and Algorithm
COMP 504	Software Engineering
ITPG 523	Database Management System
ITPG 503	Computer Network
COMP559	Distributed System

The following **Elective courses** are considered to be **specialized courses** and will be offered according to the departments' decision.

Specialized Course1				Specialized Course 2	
Course Code	Course Title	Credit	Course Code	Course Title	Credit
COMP591	Software Dependability	3	COMP602	Software Process Improvement	3
COMP553	Software Process Management	3	COMP574	Knowledge Management	3
COMP564	Artificial Intelligence	3	COMP578	Artificial Neural Network	3
COMP560	Information security and cryptography	3	EPGC560	Information Theory and Coding	3
COMP 576	Natural Language Processing	3	COMP570	Machine Learning	3
COMP576	Cloud Computing	3	COMP573	e-Governance	3
ITPG547	Emerging Technology	3	COMP 558	Management Information System	

Department of Computer Science and Engineering would like to offer some courses which can be taken as Interdisciplinary courses.

Interdisciplinary Course 1			Interdisciplinary Course 2		
Course Code	Course Title	Credit	Course Code	Course Title	Credit
COMP568	Tools and Techniques for Research	3	ITPG 528	Computer Simulation and modeling	3
ITPG533	Research Methodology	3	MEPG513	Project Management	3
COMP 558	Management Information System	3	COMP570	Machine Learning	3

**Department will give the course code for Problem Assessment Project later.