



**Masters of Science in Surveying Engineering (MSURV)**

**First Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
SURV500	Geographic Information Systems II	3		
SURV510	Remote Sensing	3		SURV500
SURV530	GPS II	3		
	Elective	3		
Total		12		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
SURV560	Advanced Digital Photogrammetry	3	SURV510	SURV560L
SURV590	Map Projection	3	SURV530	
SURV580	Geomatics for Civil Works	3		
SURV550	Image Processing	3	SURV510	
SURV560L	Advanced Digital Photogrammetry Lab	1		SURV560
Total		13		

**Second Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
SURV695A	Master Thesis Project(Part I)	3	SURV560 - SURV520 - SURV590 - SURV580 - SURV510 - SURV500 - SURV530 - SURV550	
SURV620	Engineering Transportation and Roads Design	3	SURV580	
SURV615	Surveying application II	3		SURV695A
Total		15		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
SURV695B	Master Thesis Project(Part II)	3	SURV695A	
SURV670	Technology Of Construction	3	SURV580 - SURV620	
	Elective	3		
ENGG650	Engineering Profession & Ethics	3		
Total		12		

**Major Elective Courses**

Code	Title	Credits	Prerequisites	Corequisites
SURV512	Hydrographic Surveying	3		SURV500
SURV520	Underground & Marine Survey	3		
SURV612	Advanced Tools in Surveying	3	SURV560 - SURV550 - SURV510	
SURV622	Civil Infrastructure Design	3	SURV580	
SURV630	Drainage and Irrigation	3	SURV560	
SURV632	Underwater Acoustics	3	SURV512	
SURV640	Geotechnical Engineering	3	SURV580	

SURV674	Marine Geology	3	SURV512	
SURV675	Computer Aided Drafting for Infrastructure & Road Design	3	SURV620 - SURV580	
SURV680	Environmental Impact Assessment for Surveying Engineering	3	SURV640	