



Mutah University
College of Graduate Studies

Master's Degree in in Space Communications Thesis Track

Thesis Track: The number of credit hours for graduation is 33 hours, distributed as follows:

	Course Code	Course Title	Credit Hours	Prerequisite
A: - Specialization Requirements Compulsory Credit Hours (15)	0401702	Fundamentals of Space Technology	3	
	0401703	Satellite Communications	3	
	0401704	Satellite based navigation & localization systems (NAV)	3	
	0401709	Space Communications Systems	3	
	0401736	Research Methods	3	

	Course Code	Course Title	Credit Hours	Prerequisite
B: - Elective Major Requirements Credit Hours (9)	0401749	Artificial Intelligence of Space Technology	3	
	0401711	Global Navigation Satellite Systems (GNSS)	3	
	0401714	Space Weather Effects and Mitigation	3	
	0401750	Earth's Atmosphere	3	
	0401751	Remote Sensing & GIS	3	
	0401722	Information Theory and Channel Coding	3	
	0401752	IoT for Space Applications	3	
	0401754	Space Technology Project	3	
	0401726	Advanced Digital Signal Processing for Space Communications	3	
	0401727	Free Space Optical Communications (FSO)	3	

- Thesis Preparation (Thesis Code): Equivalent to (9) credit hours, provided the student successfully passes the defence examination.
- The Dean, based on the recommendation of the Department Committee and the College Committee, may assign the student remedial courses not exceeding (9) credit hours. This must be documented in the admission letter, and the student is required to complete them during the first year.