

Curriculum of Master of Science in Satellite Communication Engineering, M.Sc. (SCE)

Core Courses				
SL	Course Code	Course Name/Title	Course Type	Credit
1	SCN 6101	Satellite Communications-1	Theory	3.00
2	SCN 6203	Satellite Communications-2	Theory	3.00
3	SSE 6103	Space System Design	Theory	3.00
4	SCN 6000	Thesis	Research (Sessional)	18.00
5	SCN 6004	Research Methodology and Seminar	Mandatory	Non-Credited
Optional (Any-3)				
Group-1		Departmental Course (Any-2)		
1	SCN 6121	Satellite Remote Sensing	Theory	3.00
2	SCN 6123	Antennas and Propagation	Theory	3.00
3	SCN 6125	RF Systems and Circuit Design	Theory	3.00
4	SCN 6127	Space Environment and Protection	Theory	3.00
5	SCN 6129	Principles of Telecom and Packet Networks	Theory	3.00
6	SCN 6131	Advanced Guidance, Navigation and Control	Theory	3.00
7	SCN 6231	Space Avionics	Theory	3.00
8	SCN 6233	Ground Systems and Mission Design	Theory	3.00
9	SCN 6100	Selected Course in Satellite Communication Engineering	Theory	3.00
Group-2		Non-Departmental Course (Any-1)		
1	SSE 6101	Space Dynamics and Missions	Theory	3.00
2	SSE 6121	Advanced Engineering Mathematics	Theory	3.00
3	SSE 6123	Hypersonic & High Temperature Gas Dynamics	Theory	3.00
4	SSE 6125	Rarefied Gas Dynamics	Theory	3.00
5	SSE 6205	Spacecraft Structures and Mechanisms	Theory	3.00
6	SSE 6229	Launch Vehicles and Propulsion	Theory	3.00

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1	SCN 6101	Satellite Communications-1	Theory	3.00
2	SCN 6203	Satellite Communications-2	Theory	3.00
3	SSE 6103	Space System Design	Sessional	3.00
4	SCN 6002	Project	Theory	6.00
5	SCN 6004	Research Methodology and Seminar	Mandatory	Non-Credited
Optional (Any-7)				
Group-1		Departmental Course (Any-4)		
1	SCN 6121	Satellite Remote Sensing	Theory	3.00
2	SCN 6123	Antennas and Propagation	Theory	3.00
3	SCN 6125	RF Systems and Circuit Design	Theory	3.00
4	SCN 6127	Space Environment and Protection	Theory	3.00
5	SCN 6129	Principles of Telecom and Packet Networks	Theory	3.00
6	SCN 6131	Advanced Guidance, Navigation and Control	Theory	3.00
7	SCN 6231	Space Avionics	Theory	3.00
8	SCN 6233	Ground Systems and Mission Design	Theory	3.00
9	SCN 6100	Selected Course in Satellite Communication Engineering	Theory	3.00
Group-2		Non-Departmental Course (Any-3)		
1	SSE 6101	Space Dynamics and Missions	Theory	3.00
2	SSE 6121	Advanced Engineering Mathematics	Theory	3.00
3	SSE 6123	Hypersonic & High Temperature Gas Dynamics	Theory	3.00
4	SSE 6125	Rarefied Gas Dynamics	Theory	3.00
5	SSE 6205	Spacecraft Structures and Mechanisms	Theory	3.00
6	SSE 6229	Launch Vehicles and Propulsion	Theory	3.00