

M.Sc. Curriculum of Materials Characterization and Selection- Materials Engineering

Specialized courses	Optional courses	Seminar	Dissertation	Sum
11	14	1	6	32

2nd Semester			1st Semester		
Credit	Course type	Course name	Credit	Course type	Course name
2	Optional	Advanced Materials and Manufacturing Processes	2	Optional	Special Topics (Data Science and Artificial Intelligence in Materials Engineering)
2	Optional	Advanced Non-destructive Methods	2	Optional	Composites
2	Specialized	Phase Transformations	2	Specialized	Selection of Materials and Processes in Design and Manufacturing New Products
2	Optional	Advanced Thermodynamics of Materials	2	Specialized	Advanced Analysis and Characterization
2	Optional	Special Topics in Surface Engineering	2	Specialized	Errors and Uncertainty in Measurement
2	Specialized	Advanced Solidification	2	Specialized	Advanced Analysis and Characterization of Materials-Lab
			2	Optional	Advanced Polymer

4th Semester			3rd Semester		
Credit	Course type	Course name	Credit	Course type	Course name
6	-	Dissertation	1	Specialized	Seminar