		MSc-MAT PROGRAM OUTCOMES	NATIONAL QUALIFICATIONS OF RELATED FIELDS															
			A1	A2	B1	B2	B3	C1	C2	C3	D1	E1	E2	E3	E4	F1	F2	F3
ALL PROGRAMS	1	Develop the ability to use critical, analytical, and reflective thinking and reasoning									X	X	X					
	2	Reflect on social and ethical responsibilities in in his/her professional life.														X		
	3	Gain experience and confidence in the dissemination of project/research outputs										X						
	4	Work responsibly and creatively individually or as a member or a leader of a team and in multidisciplinary environments.		X				X	X	X								X
	5	Communicate effectively by oral, written, graphical and technological means and have competency in English.										X		X	X			
ENGINEERING	7	Design and model engineering systems and processes and solve engineering problems with an innovative approach.			X		X		X				X					X
	8	Establish experimental setups, conduct experiments and/or simulations			X		X											
	9	Analytically acquire and interpret data.			X	X												
PROGRAM SPECIFIC	10	Apply a broad knowledge of structure & microstructure of all classes of materials, and the ability to use this knowledge to determine the material properties.	X	X	X	X	X	X							X			
	11	Apply a broad understanding of the relationships between material properties, performance and processing.	X	X	X	X	X	X							X			
	12	Apply a broad understanding of thermodynamics, kinetics, transport phenomena, phase transformations and materials aspects of advanced technology.	X	X	X	X	X											
	13	Demonstrate hands-on experience using a wide range of materials characterization techniques.	X	X	X	X	X	X							X			
	14	Demonstrate the use of results from interpreted data to improve the quality of research, a product, or a product in materials science and engineering.	X	X	X	X	X	X							X		X	