

MUST Curriculum Planning for Graduate Students for Academic Year 2022-2023,
Department of Applied Materials Science and Technology

20220216v3

1 st year(111)						2 nd year(112)						
	Course	1 st semester		2 nd semester			Course	1 st semester		2 nd semester		
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.	
MUST Core Required Courses						MUST Core Required Courses						
	Subtotal	0	0	0	0		Subtotal	0	0	0	0	0
Department compulsory courses	Chemical Engineering Seminar (I)(II)	1	2	1	2	Department compulsory courses	Thesis	3	3	3	3	
	Research Methodology and Thesis Writing			2	2							
	Subtotal	1	2	3	4		Subtotal	3	3	3	3	
Department Elective Courses	Special Topic in artificial intelligence	3	3			Department Elective Courses	X Ray Diffraction	3	3			
	Special Topics in Functional Polymers	3	3				Advanced thin film materials	3	3			
	Advanced Semiconductor Manufacturing	3	3				supercritical fluid technology			3	3	
	Spectroscopic Analysis			3	3		Photolithography			3	3	
	Material Design Selection			3	3		Workplace Practicum(III)(IV)	2	6	2	6	
	Advanced Physical Metallurgy			3	3							
	Workplace Practicum(I)(II)	2	6	2	6							

Cr./hr.=Credit/hour

Remarks:

1. Minimum graduation credits: 30 credits; compulsory credits: 10 credits, electives: 20 credits (elective credits include inter-departmental elective credits).
2. Study credits per semester: the lower limit is 1 credit (6 credits not included for the thesis).
3. The department allows inter-departmental electives, but the credits of the department's major electives cannot be 14 credits.
4. All 6 thesis credits will be granted only after passing the oral exam.
5. The elective courses are subject to change if necessary.