



Department of **Materials and Metallurgical Engineering**  
 Graduate – Materials and Metallurgical Engineering  
 FACULTY OF INDUSTRIAL TECHNOLOGY  
**INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS)**

Smt	Code	Courses	Credits
1	TL2301	Mechanical Material Performance and Character	3
1	TL2302	Advanced Material Characterization	3
1	TL2303	Material Kinetics and Thermodynamics	3
1	TL2304	Corrosion Controlling System Design	3
1	TL2401	Advanced Composite and Polymer Material	3
2	TL2305	Cast and Welding Metallurgy	3
2	TL2306	Material Processing Modeling	3
2	TL2307	Heat Treatment and Surface Engineering	3
2	TL2407	Energy Material**	3
2	TL2408	Electronic Material**	3
2	TL2410	Advanced Material**	3
3	TL2308	Scientific Writing and Thesis Proposal	3
3	TL2402	High Temperature Corrosion**	3
3	TL2403	Extraction Metallurgy**	3
3	TL2404	Nano Material Technology**	3
3	TL2405	Composite Material Mechanics**	3
3	TL2406	Advanced Ceramic Material**	3
3	TL2409	Bio Material**	3
3	TL2411	Special Topics**	3
4	TL2501	Thesis	6

\* Select one of those who have stars

\*\* Elective Course