

Campus:	Main campus
Faculty:	Faculty of Chemical Metallurgical and Polymer Engineering
Department:	Department of Metallurgical and Materials Engineering
OBE coordinator:	Dr. Ehsan ul Haq

Noe: Mapping can be done by matching the keywords or statement parts of each CLO (or course description) with SDGs. Please see the additional sheets for more details. In following table, we only need Course-SDGs mapping for all the courses.

Courses and SDGs mapping																				
Sr #	Code	Course	SDG 1 No Poverty	SDG 2 Zero Hunger	SDG 3 Good Health and Well-being	SDG 4 Quality Education	SDG 5 Gender Equality	SDG 6 Clean Water and Sanitation	SDG 7 Affordable and Clean Energy	SDG 8 Decent Work and Economic Growth	SDG 9 Industry, Innovation and Infrastructure	SDG 10 Reduced Inequality	SDG 11 Sustainable Cities and Communities	SDG 12 Responsible Consumption and Production	SDG 13 Climate Action	SDG 14 Life Below Water	SDG 15 Life on Land	SDG 16 Peace & Justice Strong Institutions	SDG 17 Partnerships to achieve SDGs	
1st Semester	1 EE 199	Basic Electrical and Electronics Engineering							✓		✓									
	2 ME 122L	Engineering Drawing									✓									
	3 MME 101	Introduction to Metallurgy and Materials									✓									
	4 IS 101	Islamic and Pakistan Studies-I	✓				✓					✓								
	5 MA 111	Applied Mathematics-I								✓										
	6 QT 101	Translation of The Holy Quran-I	✓																✓	
2nd Semester	7 PHY 114	Applied Physics									✓									
	8 CY 151	Material Chemistry-I									✓									
	9 ME 100L	Workshop Practice								✓	✓									
	10 HU 111L	Communication Skills				✓														
	11 MME 104	Mechanics of Materials									✓									
	12 MA 112	Applied Mathematics-II										✓								
3rd Semester	13 CS-103	Introduction of computer programming for data science								✓	✓									
	14 MME 202	Applied Thermodynamics									✓			✓						
	15 IS 201	Islamic and Pakistan Studies-II	✓				✓					✓								
	16 MA 240	Numerical Analysis									✓									
	17 MME 212	Inspection and Quality Assurance									✓			✓						
	18 MME 213	Extractive Metallurgy								✓	✓			✓						
4th Semester	19 MME 214	Industrial Safety and Environmental Engineering			✓						✓			✓		✓				
	20 QT 201	Translation of The Holy Quran-II	✓															✓		
	21 MME 217	Physical Metallurgy								✓	✓									
	22 18MME 218	Iron and Steel Making Processes								✓	✓			✓						
	23 MA 242	Engineering Statistics									✓									
	24 HU 221	Technical Writing & Presentation Skills				✓														
5th Semester	25 MME 215	Ceramic Materials									✓			✓						
	26 MME 216	Mechanical Behavior of Engineering Materials								✓	✓									
	27 MME301	Electrical and Magnetic Materials							✓	✓				✓						
	28 QT 301	Translation of The Holy Quran-III	✓															✓		
	29 MME 304	Process Control and Instrumentation									✓	✓								
	30 MME 308	Characterization of Engineering Materials									✓	✓			✓					
6th Semester	31 MME 313	Foundry Engineering								✓	✓			✓						
	32 MME 314	Polymeric Materials								✓	✓			✓						
	33 MME 325	Advanced Ceramics							✓	✓	✓									
	34 MME 327	Heat Treatment and Phase Transformation									✓			✓						
	35 MME 305	Welding and Joining of Materials									✓	✓								
	36 MME 306	Industrial and Financial Management			✓								✓							
6th Semester	37 MME 309L	Computational Methods in Materials Engineering								✓	✓									
	38 MME 315	Powder Metallurgy								✓	✓			✓						
	39 MME 316	Corrosion and Corrosion Control								✓	✓			✓						

7th Semester	40	MME 423	Solidification of Metals and Alloys								✓	✓			✓				
	41	QT 401	Translation of The Holy Quran-IV	✓															✓
	42	MME 426	Metal Working and Removal Processes								✓	✓			✓				
	43	MME Elective-1	Engineering Elective 01								✓	✓							
	44	MME Elective-2	Engineering Elective 02								✓	✓							
	45	MME 411	Final Project-I																
8th Semester	46	MME 403	Composite Materials								✓	✓			✓				
	47	MME Elective-3	Engineering Elective 03								✓	✓							
	48	MME Elective-4	Engineering Elective 04								✓	✓							
	49	MME Elective-5	Engineering Elective 05								✓	✓							
	50	MME Elective-6	Engineering Elective 06								✓	✓							
	51	MME 412	Final Project-II																

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