Campus:	Main campus
Faculty:	Faculty of Natural Sciences, Humanities and Islamic Studies
Department:	Dept. of Mathematics
OBE coordinator	Dr Taimoor Iqbal

Noe: Mapping can be done by matching the keywords or statement parts of each CLO (or course discription) 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

Semester	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	MATH-101	Calculus-I	yes		yes	yes	yes		yes	yes	yes		yes		yes	yes	yes		yes
1st Semester	2	MATH-102	Elements of Set Theory and Mathematical Logic	yes		yes	yes			yes	yes	yes								
2nd Semester	3	MATH-104	Calculus II	yes		yes	yes	yes		yes	yes	yes		yes						yes
2nd Semester	4	MATH-105	Statistics	yes	yes	yes	yes	yes		yes	yes	yes		yes					yes	yes
2nd Semester	5	MATH-106	Software Packages	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes			yes	yes
3rd Semester	6	MATH-201	Calculus III	yes		yes	yes	yes		yes	yes	yes		yes						yes
3rd Semester	7	MATH-203 & 203L	Scientific Programming	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
3rd Semester	8	MATH-204	Linear Algebra			yes	yes		yes		yes	yes			yes					yes
4th Semester	9	MATH-205	Ordinary Differential Equations	yes		yes	yes	yes		yes	yes	yes		yes						yes
4th Semester	10	MATH-206	Discrete Mathematics								yes	yes							yes	yes
4th Semester	11	MATH-211	Operation Research-I	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
5th Semester	12	MATH-301	Real Analysis-I				yes				yes									
5th Semester	13	MATH-302	Vector and Tensor Analysis		yes												yes	yes		yes
5th Semester	14	MATH-303	Probability	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
5th Semester	15	MATH-304	Topology				yes													
5th Semester	16	MATH-312	Operation Research II	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
6th Semester	17	MATH-305	Modern Algebra-I				yes				yes									
6th Semester	18	MATH-307	Classical Mechanics				yes				yes							yes		yes
6th Semester	19	MATH-308	Partial Differential Equations	yes	yes	yes	yes	yes		yes	yes	yes		yes	yes	yes				yes
6th Semester	20	MATH-309	Complex Analysis				yes				yes									
6th Semester	21	MATH-310	Differential Geometry				yes				yes									
6th Semester	22	MATH-311	Real Analysis-II				yes				yes									
7th Semester	23	MATH-400	Number Theory				yes				yes									
7th Semester	24	MATH-401	Numerical Analysis	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
7th Semester	25	MATH-403	Mathematical Physics				yes				yes									
7th Semester	26	MATH-405	Integral Equations				yes				yes									
7th Semester	27	MATH-441	Functional Analysis				yes				yes									
	28	MATH-402	Fluid Mechanics-I	yes		yes	yes		yes	yes	yes	yes		yes	yes	yes				yes
	29	MATH-404	Fluid Mechanics-II	yes		yes	yes		yes	yes	yes	yes		yes	yes	yes				yes
	30	MATH-416	Optimization Theory	yes		yes	yes		yes	yes	yes	yes		yes	yes	yes				yes
	31	MATH-412	Numerical Solutions of Differential Equations	yes	yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes	yes	yes		yes
	32	MATH-442	Measure Theory				yes				yes									
	33	MATH-443	Algebraic Topology				yes				yes									
	34	MATH-444	Convex Analysis				yes				yes									
	35	MATH-445	Modern Algebra II (Rings and Modules)				yes				yes									
	36	MATH-446	Advanced Group Theory				yes				yes									
	37	MATH-447	Axiomatic Set Theory				yes				yes									
	38	MATH-448	Riemannian Geometry				yes				yes									
	39	MATH-449	Galois Theory				yes				yes									
	40	MATH-406	Electromagnetism				yes				yes									
	41	MATH-407	Analytical Dynamics				yes				yes									
	42	MATH-408	Quantum Mechanics		yes	yes	yes	yes	yes	yes	yes	yes		yes	yes	yes				yes
	43	MATH-409	General Relativity				yes				yes									
	44	MATH-410	Special Relativity				yes				yes									
	45	MATH-411	Elastic Theory				yes				yes									
	46	MATH-417	Mathematical Modeling and Simulation	yes		yes	yes	yes	yes		yes	yes		yes	yes	yes				yes
	47	MATH-418	Dynamical Systems			yes	yes	yes	yes		yes	yes		yes	yes	yes				yes
	48	MATH-419	Mathematical Biology	yes		yes	yes	yes	yes		yes	yes		yes	yes	yes				yes
Elective	49	MATH-420	Computational Fluid Dynamics				yes				yes						yes	yes		