Campus:	Main campus
Faculty:	Faculty of Mechanical Engienering
Department:	Dept. of Mechatronics and Control Engineering
OBE coordinator	

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.

							Cour	ses and SD	Gs mappin	g										
				SDG 1	SDG 2	SDG 3	SDG 4	SDG 5	SDG 6	SDG 7			SDG 10	SDG 11	SDG 12	SDG 13	SDG 14	SDG 15	SDG 16	SDG 17
				No	Zero	Good	Quality	Gender	Clean	Affordabl		Industry,		C. at at a sta	Responsi	Climate	Life	Life on	Peace &	Partnersh
	Sr#	Code	Course	Poverty	Hunger	Health and Well-	Education	Equality	Water and	e and Clean	Work and Economic	n and	Inequality	le Cities	ble Consump	Action	Below Water	Land	Justice Strong	ips to achieve
			200 22			being			Sanitatio	Energy	Growth	Infrastruc		and	tion and				Institutio	SDGs
									n			ture		Communi	Productio				ns	
		24.442												ties	n					
			Calculus and Analytic Geometry									Yes								
	2	MCT-111 & MCT-111L	Engineering Graphics and Drawing				Yes					Yes								
	3	MCT-121 & MCT-121L										Yes								
1st Semester	4	IS-101/HU-101	Islamic and Pak Studies –I/ Ethics and Pak Studies - I					Yes					Yes						Yes	
	5	PHY-118 & PHY-118L	Applied Physics									Yes				Yes				
	6	ME-100L	Workshop Practice	Yes								Yes								
	7	QT-101	Translation of The Holy Quran-I				Yes												Yes	
	8	MCT-142L	Computer Programming-I								Yes	Yes		Yes						
			Communication Skills					Yes					Yes						Yes	
							V	163				V	163						163	
2nd			Differential Equations and Transforms				Yes					Yes								
Semester	11	MCT-113 & MCT-113L	Manufacturing Processes									Yes		Yes	Yes					
	12	MCT-117 & MCT-117L	Engineering Mechanics				Yes					Yes								
	13	MCT-122 & MCT-122L	Electronic Devices and Circuits									Yes								
	14	MCT-100	Community Service	Yes	Yes	Yes	Yes		Yes		Yes		Yes	Yes		Yes			Yes	
	15	MCT-223 & MCT-223L	Electrical Machinery									Yes		Yes						
	16	MCT-217 & MCT-217I	Mechanisms								Yes	Yes		Yes	Yes					
	17		Computer Programming II									Yes								
3rd	18	MA-129	Vector and Complex Analysis				Yes					Yes								
Semester	19	MCT-241 & MCT-241L										Yes								
	20		Signal Edgle Stong.								Yes	Yes	Yes							Yes
			Entrepreneurship-I								res	res	res							- res
	21	QT-201	Translation of The Holy Quran-II				Yes												Yes	
	22	MCT-216 & MCT-216L	Machine Design and Elements								Yes	Yes		Yes	Yes					
	23	MCT-244 & MCT-244L	Signal Processing				Yes					Yes								
4th	24	MCT-236 & MCT-236L	Embedded Systems-I									Yes				Yes				
Semester	25	IS-201/HU-201	Islamic and Pak Studies –II/ Ethics and Pak Studies - II					Yes					Yes						Yes	
	26	HU-003	International Language				Yes												Yes	Yes
	27	MA-234	Linear Algebra				Yes					Yes								
										l	<u> </u>	l								

		Learn and a Mean and	1						.,	.,		.,				
ŀ		MCT-361 & MCT-361L	Hydraulics and Pneumatics						Yes	Yes		Yes				<del>                                     </del>
		MCT-306	Entrepreneurship-II						Yes	Yes	Yes					Yes
5th	30	MA-240 & MA-240L	Numerical Analysis							Yes						<b> </b>
Semester	31	MCT-336 & MCT-336L	Embedded Systems-II							Yes			Yes			
	32	MCT-331 & MCT-331L	Modeling and Simulation			Yes				Yes						
	33	MCT-305	Probability and Statistics							Yes						
	34	QT-301	Translation of The Holy Quran-III			Yes									Yes	
	35	MCT-xxx	Elective I													
	36	MCT-333 & MCT-333L	Control Systems – I							Yes						1
6th	37	MCT-335 & MCT-335L	Instrumentation and Measurements			Yes				Yes						
Semester	38	MCT-352 & MCT-352L	Robotics							Yes						
	39	MCT-341 & MCT-341L	Data Sciences and Analytics							Yes						
	40	HU-221	Technical Writing & Presentation Skills			Yes			Yes							
	41	MCT-406	Entrepreneurship-III						Yes	Yes	Yes					Yes
	42	MCT-403 & MCT-403L	Product Design							Yes						
	43	MCT-434 & MCT-434L	Industrial Automation							Yes						
7th Semester	44	MCT-435	Control Systems – II						Yes	Yes						
	45	MCT-xxx	Elective II													
	46	QT-401	Translation of The Holy Quran-IV			Yes									Yes	
	47	MCT-498	Final Project- I													
'	48	MCT-404	Professional Ethics			Yes	Yes		Yes		Yes				Yes	Yes
8th		MCT-499	Final Project- II													
Semester	49	MCT-xxx	Elective III													
	50	MGT-211	Principles of Management						Yes			Yes				
			Elective Subjects													
	52	MCT-412 & MCT-412L	Condition Monitoring						Yes	Yes						
	53	MCT-415 & MCT-415L				Yes				Yes						
	54		Digital Signal Processing							Yes						
	55	MCT-422 & MCT-422L						Yes		Yes						
ľ	56		Digital Control Systems						Yes	Yes						
ľ	57		Estimation and Filtering						Yes	Yes						
ľ	58	MCT-452 & MCT-452L	-		Yes									Yes		
	59	MCT-452 & MCT-452L								Yes						
	60	MCT-453 & MCT-453L								Yes						
ŀ	61	MCT-454 & MCT-454L								Yes						
Į.		IVIC 1-400 & IVIC 1-455L	Wedrable Robotics	l .					l							

62 MCT-456 & MCT-456L Internet of Things							Yes						
63 MCT-457 & MCT-457L Biomedical Devices		Yes	Yes				Yes						
64 MCT-458 & MCT-458L Human Centered Robotics						Yes	Yes						
65 MCT-459 & MCT-459L Aerial Robotics							Yes						
66 MCT-461 & MCT-461L Smart Electric Vehicles							Yes	Yes					
67 MCT-491 & MCT-491L Special Topics in Mechatronics		Yes											