

Scheme of Studies B.E. Mechanical (specialization in Automotive)
for Batch-2021

F.E Fall Semester B.E. Automotive					F.E Spring Semester (Automotive)				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
PH-122	Applied Physics	3	1	4	CY-109	Applied Chemistry	3	1	4
MT-114	Calculus	3	0	3	EE-118	Basic Electricity & Electronics	3	1	4
EA-104	Functional English	3	0	3	ME-112	Thermodynamics	3	0	3
AU-113	Introduction to Automotive Systems	2	0	2	ME-106	Statics	2	1	3
ES-105/ES-127	Pakistan Studies/ Pakistan Studies (for Foreigners)	2	0	2	AU-112	Engineering Drawing & Computer Graphics	2	1	3
ME-104	Workshop Practice	0	2	2					
---	Total	13	3	16		Total	13	4	17
S.E Fall Semester B.E. Automotive					S.E Spring Semester B.E. Automotive				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
MT-223	Ordinary Differential Equations & Fourier Series	3	0	3	MT-330	Applied Probability & Statistics	2	1	3
AU-241	Automotive Propulsion	3	1	4	IM-209	Mechanics of Materials	3	1	4
ME-222	Dynamics	3	0	3	ME-209	Materials & Metallurgy	3	1	4
AU-212	Computer Programming & Applications	2	1	3	EE-376	Feedback Control Systems	3	0	3
AU-225	Fundamentals of Analogue & Digital Electronics	2	1	3	ME-311	Manufacturing Processes	3	1	4
HS-205/HS-209	Islamic Studies/Ethical Behaviour	2	0	2	EA-200	Community Service	--	--	NC
	Total	15	3	18		Total	14	4	18

T.E Fall Semester B.E. Automotive					T.E Spring Semester (Automotive)				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
AU-313	Combustion, Emission & Pollution	3	0	3	HS-XXX	Social Elective	2	0	2
MT-332	Advanced Calculus & Linear Algebra	3	0	3	AU-332	Automobile Instrumentation	2	1	3
EA-304	Business Communication & Ethics	3	0	3	AU-316	Vehicle Ride & Handling Lab	0	1	1
AU-317	Fluid Mechanics	3	0	3	ME-315	Heat & Mass Transfer	3	1	4
AU-331	Automotive Embedded System	2	0	2	AU-323	Vehicle Noise & Vibrations	3	0	3
AU-315	Design of Machine Elements	3	0	3	AU-333	Chassis System Design	2	0	2
AU-312	Modeling and Simulation Lab	0	1	1	HSK-1/HS-231	Chinese Language/ Turkish Language			NC
					MF-303	Applied Economics for Engineers	3	0	3
	Total	17	1	18		Total	15	3	18
B.E Fall Semester (BE Mechanical- Specialization in Automotive)					B.E Spring Semester (BE Mechanical- Specialization in Automotive)				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th	Pr	Total			Th	Pr	Total
AU-422	Automotive Transmission & Drives	2	0	2	ME-435	Operations Management	3	0	3
ME-403	Refrigeration & Airconditioning	3	1	4	MT-441	Advanced Mathematical Techniques	3	0	3
ME-317	Manufacturing Processes - II	3	1	4	XX-###	Technical Elective	3	0	3
XX-###	Technical Elective	3	0	3	AU-499	Automotive Engineering Project	0	3	3
AU-499	Automotive Engineering Project	0	3	3	AU-438	Electric & Hybrid Electric Vehicles	2	0	2
##-###	Management Elective	2	0	2	ME-219	Mechanics of Machines	3	0	3
##-###	Foreign Language - II	--	--	NC					
	Total	13	5	18		Total	14	3	17

Additional Semester				
Course Code	Course	Th	Pr	Total
MG-481	Entrepreneurship	3	0	3
ME-316	Fluid Mechanics - II	3	1	4
ME-302	Solid Mechanics - II	3	1	4
ME-437	Machine Design & Vibration Lab	0	1	1
		Total		12
	Total Cr. Hrs.			152