


Scheme of Studies Fall 2023

BS Mechanical Engineering Technology

Semester-I				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
GE-1	URCG-5118	Functional English	3(3-0)	Nil
GE-2	URCG-5105	Islamic Studies	2(2-0)	Nil
GE-3	URCG-5123	Application of Information and Communication Technologies	3(2-1)	Nil
GE-4	MS-113	Applied Mathematics	3(3-0)	Nil
Major-1 (Th)	MT-112	Technical Drawing & Graphics (Th)	2(2-0)	Nil
Major-1 (Lab)	MT-121	Technical Drawing & Graphics (Lab)	1(0-1)	Nil
GE-5 (Th)	MS-123	Applied Physics (Th)	3(3-0)	Nil
GE-5 (Lab)	MS-131	Applied Physics (Lab)	1(0-1)	Nil

Semester Total Credit Hours:18

Semester-II				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
GE-6	MH-112	Communication Skills	2(2-0)	Nil
GE-7	MM-113	Introduction to Industrial Management	3(3-0)	Nil
GE-8	URCG-5127	Seerat of the Holy Prophet (SAW)	1(1-0)	Nil
GE-9	URCG-5111	Translation of Holy Quran-I	NC	Nil
Major-2 (Th)	MT-131	Workshop Technology (Th)	1(1-0)	Nil
Major-2 (Lab)	MT-142	Workshop Technology (Lab)	2(0-2)	Nil
Major-3 (Th)	MT-153	Applied Mechanics (Th)	3(3-0)	Nil
Major-3 (Lab)	MT-161	Applied Mechanics (Lab)	1(0-1)	Nil
Major-4	MT-172	Industrial Materials	2(2-0)	Nil
ID-1 (Th)	MS-142	Computer Applications (Th)	2(2-0)	Nil
ID-1 (Lab)	MS-151	Computer Applications (Lab)	1(0-1)	Nil

Semester Total Credit Hours:18

Semester-III				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**

GE-10	MS-213	Technical Report Writing & Presentation Skills	3(3-0)	Nil
GE-11	URCG-5122	Ideology and Constitution of Pakistan	2(2-0)	Nil
Major-5 (Th)	MT-211	Computer Aided Drafting and Modeling (Th)	1(1-0)	MT-112
Major-5 (Lab)	MT-222	Computer Aided Drafting and Modeling (Lab)	2(0-2)	MT-122
Major-6 (Th)	MT-233	Mechanics of Material (Th)	3(3-0)	MT-223
Major-6 (Lab)	MT-241	Mechanics of Material (Lab)	1(0-1)	Nil
Major-7 (Th)	MT-253	Applied Thermodynamics (Th)	3(3-0)	Nil
Major-7 (Lab)	MT-261	Applied Thermodynamics (Lab)	1(0-1)	Nil
Major-8	MT-272	Industrial Maintenance and Safety	2(2-0)	Nil

Semester Total Credit Hours:18

Semester-IV				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
GE-12	URCG-5124	Entrepreneurship	2(2-0)	Nil
GE-13	MM-212	Project Management	2(2-0)	Nil
GE-14	URCG-5111	Translation of Holy Quran-II	NC	Nil
Major-9	MT-273	Machine Design	3(3-0)	MT-214
Major-10 (Th)	MT-282	Fluid Mechanics and Hydraulic Machines (Th)	2(2-0)	Nil
Major-10 (Lab)	MT-291	Fluid Mechanics and Hydraulic Machines (Lab)	1(0-1)	Nil
Major-11 (Th)	MT-292	Manufacturing Processes (Th)	2(2-0)	MT-183
Major-11 (Lab)	MT-293	Manufacturing Processes (Lab)	2(0-2)	MT-183
ID-2 (Th)	MT-294	Basic Electrical & Electronics (Th)	3(3-0)	Nil
ID-2 (Lab)	MT-295	Basic Electrical & Electronics (Lab)	1(0-1)	Nil

Semester Total Credit Hours:18

Semester-V				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
GE-15	URCG-5111	Translation of Holy Quran-II	NC	Nil
Major-12 (Th)	MT-313	Heat And Mass Transfer (Th)	3(3-0)	MT-253
Major-12 (Lab)	MT-321	Heat And Mass Transfer (Lab)	1(0-1)	MT-261
Major-13 (Th)	MT-333	Energy & Power Technologies (Th)	3(3-0)	Nil
Major-14	MT-343	Capstone Project	3(0-3)	Nil
Major-15	MT-353	IC Engines	3(3-0)	MT-253
Major-16	MT-363	Industrial Automation	3(3-0)	Nil
ID-3	MH-312	Engineering Economics	2(2-0)	Nil

Semester Total Credit Hours:18

Semester-VI				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**

GE-16	URCG-5111	Translation of Holy Quran-II	NC	Nil
Major-17 (Th)	MT-373	Instrumentation And Control (Th)	3(3-0)	Nil
Major-17 (Lab)	MT-371	Instrumentation And Control (Lab)	1(0-1)	Nil
Major-18	MT-383	Capstone Project	3(3-0)	MT-343
Major-19 (Th)	MT-393	Mechanical Vibration (Th)	3(3-0)	Nil
Major-19 (Lab)	MT-391	Mechanical Vibration (Lab)	1(0-1)	Nil
Major-20 (Th)	MT-394	HVAC Technologies (Th)	3(3-0)	MT-313
Major-20 (Lab)	MT-395	HVAC Technologies (Lab)	1(0-1)	MT-321
ID-4	MS-313	Probability & Statistics	3(3-0)	Nil

Semester Total Credit Hours:18

Semester-VII				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
Major-21	MT- 4116	Supervised Industrial Training (Internship)	16(0-16)	Nil

Semester Total Credit Hours:18

Semester-VIII				
Category	**Course Code**	**Course Title**	**Credit Hours**	**Pre-Requisite**
Major-22	MT- 4216	Supervised Industrial Training (Internship)	16(0-16)	Nil

Semester Total Credit Hours: 16

Dedicated Faculty of Mechanical Engineering Technology

Sr. No.	Name	Designation
1	Dr Mudaser Ullah	Assistant Professor
2	Engr. M. Sohail	Assistant Professor
3	Dr Sana Ullah	Assistant Professor
4	Engr. Saeed Ahmad	Lecturer
5	Engr. Ch. Abdullah	Lecturer
6	Engr. Amna Noor	Lecturer
7	Engr. Husnain Hussain Shah	Lab Engineer
8	Engr. Ahsan Humayyoun	Lab Engineer