

SCHEME OF STUDIES OF BE (CIVIL)
THAR INSTITUTE OF ENGINEERING, SCIENCES AND
TECHNOLOGY (TIEST)
(EFFECTIVE FROM BATCH 2021)

FIRST YEAR									
Fall					Spring				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theory	Practical	Total			Theory	Practical	Total
CE-107	Engineering Drawing-I	1	2	3	CE-109	Engineering Surveying-I	2	1	3
CE-102	Statics and Dynamics	3	1	4	CE-110	Chemistry for Civil Engineers	1	1	2
EE-123	Basic Electrical Engineering	2	0	2	CE-111	Introduction to Computing for Civil Engineers	1	2	3
CE-108	Engineering Materials	2	1	3	ME-110	Basic Mechanical Engineering	2	0	2
MT-114	Calculus	3	0	3	HS-111	Functional English	2	0	2
HS-106 / HS-127	Pakistan Studies OR Pakistan Studies (for Foreigners)	1	0	1	MT-221	Linear Algebra & Ordinary Differential Equations	3	0	3
Total Credit Hours		12	4	16	Total Credit Hours		11	4	15
SECOND YEAR									
Fall					Spring				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theory	Practical	Total			Theory	Practical	Total
CE-201	Engineering Surveying-II	3	1	4	CE-222	Engineering Drawing-II	1	2	3
CE-205	Mechanics of Solids-I	3	1	4	CE-219	Fluid Mechanics-I	3	1	4
CE-223	Geology for Engineers	2	0	2	CE-221	Structural Analysis-I	3	0	3
HS-218	Business Communication	2	1	3	HS-219	Professional Ethics	2	0	2
HS-205 / HS-209	Islamic Studies OR Ethical Behaviour (for Non-Muslims)	2	0	2	MT-331	Probability & Statistics	3	0	3
					CF-303	Applied Economics for Engineers	3	0	3
Total Credit Hours		12	3	15	Total Credit Hours		15	3	18
THIRD YEAR									
Fall					Spring				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theory	Practical	Total			Theory	Practical	Total
CE-320	Reinforced Concrete Design-I	3	0	3	CE-302	Transportation Engineering-I	3	1	4
CE-321	Construction Engineering	3	0	3	CE-305	Soil Mechanics-I	3	1	4
CE-323	Quantity & Cost Estimation	3	0	3	CE-314	Structural Analysis-II	3	0	3
CE-319	Fluid Mechanics-II	3	1	4	CE-322	Mechanics of Solids-II	3	0	3
MT-443	Numerical Analysis	3	0	3	CE-424	Essentials in Construction Project Management	3	0	3
AR-309	Architecture and Town Planning	3	0	3	HSK-1	*HSK-1 Chinese Language OR	NC		
					HS-231	**HS-231 Turkish Language-I	NC		
Total Credit Hours		18	1	19	Total Credit Hours		15	2	17

FINAL YEAR									
Fall					Spring				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Theory	Practical	Total			Theory	Practical	Total
CE-403	Soil Mechanics-II	3	1	4	CE-###	Civil Engineering Elective (3+0 OR 2+1 OR 1+2)	3	0	3
CE-432	Transportation Engineering-II	2	0	2	CE-###	Management Elective	3	0	3
CE-418	Hydraulics and Water Resources Engineering-I	3	1	4	CE-###	Social Science Elective	2	0	2
CE-420	Reinforced Concrete Design-II	3	0	3	CE-421	Design of Steel Structures	3	0	3
EN-301	Environmental Engineering-I	2	1	3	EN-401	Environmental Engineering-II	2	1	3
CE-409	Civil Engineering Project*	0	3	3	CE-409	Civil Engineering Project	0	3	3
HSK-2 Chinese Language	*HSK-1 Chinese Language OR	NC							
HS-232 Turkish Language-I	**HS-231 Turkish Language-I	NC							
Total Credit Hours		13	6	19	Total Credit Hours		13	4	17

* Duration one academic year: Requires literature survey and preliminary work during this Semester

1 credit hour of theory class = 1 contact hour

1 credit hour of lab / design class / practical = 3 contact hours

List of Elective Courses (more courses may be added as per need):

Elective	Course Code	Title
Civil Engineering Elective	CE-422	Structural Design and Drawing
	CE-423	Masonry Structures
	CE-419	Applied Hydraulics
	CE-426	Building Information Modelling
	CE-429	Geo Synthetics and Their Applications
	CE-431	Geoinformatics Applications
	CE-433	Coastal and Harbour Engineering
	CE-438	Hydraulics and Water Resources Engineering – II
	CE-424	Environmental Issues in Construction
	CN-430	Disaster and Reconstruction Management
Management Sciences Elective	CE-425	Modern Aspects of Construction Project Management
	CE-435	Construction Contract Management
	CE-434	Procurement Management
	CN-432	Leadership and Human Skills in Management
	CN-423	Management and Marketing of Construction Services
Social Sciences Elective	CE-427	Introduction to Entrepreneurship and Opportunity Assessment
	MG-228	Sociology & Development
	CE-439	Engineer & Society