

OFFERED_COURSE_CD	OFFERED_COURSE_TITLE	COVERED_COURSES
AR-141	Communications and Skills-I	AR-141
AR-142	Communications and Skills-II	AR-142
AR-231	Environmental Design and Systems-I	AR-231
AR-241	Communications and Skills-III	AR-241
AR-301	Architectural Design-III	AR-301
AR-402	Architectural Design-VI	AR-402
AR-502	Architectural Design Project	AR-502
AR-521	Comprehensive Environmental Design	AR-521
AU-201	Automotive Power Plants	AU-201
AU-203	Statistics & Quality Control	AU-203
AU-222	Automobile Instrumentation	AU-222
AU-231	Manufacturing Engineering-I	AU-231
AU-311	Manufacturing Engineering II	AU-311
AU-315	Design of Machine Elements	AU-315
AU-401	Vehicle Thermal Management	AU-401
AU-412	FEM and FVM: Application in Automotive Engineering	AU-412, IM-405
AU-414	Hybride Vehicles & Drives	AU-414
BM-100	Introduction to Biology (for pre-engineering students)	BM-100
BM-101	Introduction to Biomedical Engineering	BM-101
BM-113	Engineering Mechanics	BM-113, BM-201
BM-114	Anatomy	BM-114
BM-115	Physiology-I	BM-115, BM-115
BM-208	Biomedical Electronics	BM-208
BM-209	Basic Electronics	BM-209
BM-220	Biophysics	BM-220
BM-310	Control Systems for Biomedical Engineers	BM-310
BM-311	Bioinstrumentation & Measurements-II	BM-311
BM-421	Genetic Engineering	BM-421
BM-427	Product Design in Biomedical Engineering	BM-427
CE-103	Engineering Surveying - I	CE-103, CN-107, UE-103, CE-105, CE-103
CE-106	Introduction to Computing for Civil Engineers	CN-216, CE-202, CE-106
CE-201	Engineering Surveying - II	CE-201, UE-201
CE-203	Engineering Drawing -II	CE-203, UE-211
CE-206	Geology for Engineers	PE-102, CE-206, UE-206
CE-209	Structural Analysis-I	CE-209
CE-219	Fluid Mechanics-I	CE-219, CE-204, CN-224
CE-220	Geology for Engineers	CE-220
CE-221	Structural Analysis-I	CE-221
CE-301	Mechanics of Solids-II	CE-301
CE-302	Transportation Engineering -I	CE-302
CE-314	Structural Analysis - II	CE-314
CE-316	Quantity and Cost Estimation	CN-222, CE-316, CE-307, UE-307
CE-319	Fluid Mechanics-II	CE-319, CE-310
CE-320	Reinforced Concrete Design-I	CE-320
CE-321	Construction Engineering	CE-321
CE-322	Mechanics of Solids-II	CE-322
CE-323	Quantity & Cost Estimation	CE-323
CE-351	Structures for Architects - II	CE-351
CE-402	Structural Design and Drawing	CE-402
CE-405	Reinforced Concrete Design -II	CE-405
CE-407	Transportation Engineering -II	CE-407
CE-413	Essentials in Construction Project Management	CE-406, CE-406, UE-405, CE-413, UE-406
CE-418	Hydraulic and Water Resources Engineering-I	CE-408, CE-418
CE-428	Hydraulics and Water Resource Engineering-II	CE-428
CF-313	Applied Economics for Engineers	CF-313
CH-103	Inorganic Chemistry	CH-103
CH-104	Chemical Engineering Principle	CH-101, CH-104, PP-203
CH-209	Fluid Mechanics-I	CH-209
CH-210	Chemical Engineering Thermodynamics-II	CH-210
CH-302	Separation Processes	PP-405, CH-302, PP-411
CH-305	Particulate Technology	CH-305

OFFERED_COURSE_CD	OFFERED_COURSE_TITLE	COVERED_COURSES
CH-307	Heat Transfer	CH-307, PP-304, ME-315
CH-309	Chemical Reaction Engineering	CH-309
CH-311	Mass Transfer	CH-311
CH-401	Process Modeling and Simulation	CH-401
CH-407	Industrial Organization and Management	PP-306, CH-407
CH-412	Biochemical Engineering	CH-412
CN-219	Structures-I	CN-219
CN-226	Construction Engineering Drawing	CN-226
CN-227	Building Construction Technology	CN-227
CN-228	Structures-I	CN-228
CS-109	Computer Programming	CS-109
CS-111	Object Oriented Programming	CS-111
CS-211	Discrete Structure	CS-211, CT-162
CS-212	Computer Organization & Design	CS-252, CS-305, CS-201, CS-212, CS-208
CS-214	Digital Logic Design	CS-205, CS-251, CS-214
CS-215	Signals and Systems	TC-202, CS-215
CS-301	Microprocessor Based System Design	CS-309, CS-353, CS-410, CS-301
CS-302	Software Engineering	CS-302, CT-354, SE-205
CS-318	Computer Communication Networks	CS-351, CS-318
CS-319	VLSI Design	CS-319
CS-322	Computer Architecture	CS-322
CS-352	Digital Communication Systems	TC-489, CS-352
CS-406	Computer Engineering Project	CS-406
CS-417	Computer System Modeling	CS-417
CS-421	Parallel Processing	CS-451, CS-421
CS-428	Parallel & Distributed Computing	CS-428
CS-430	Microprocessor Programming and Interfacing	CS-430
CT-153	Programming Languages	CT-153, EL-255, EE-262
CT-157	Data Structure Algorithms & Applications	CS-216, CS-210, CT-157
CT-173	Introduction to Computer Applications	CT-173
CT-255	Assembly Language Programming	CT-255
CT-257	Database Management Systems	CS-306, CT-257, SE-204
CT-258	Financial & Cost Accounting	CT-258
CT-452	Modeling and Simulation	CT-452, SE-401
CT-461	E-Commerce	SE-307, CT-461
CY-109	Applied Chemistry	CY-109, CY-110, CY-105
CY-113	Inorganic Chemistry-I	CY-101, CY-113
CY-120	Analytical Chemistry-I	CY-103, CY-120
CY-208	Organic Chemistry-II	CY-202, CY-208
CY-209	Analytical Chemistry-II	CY-203, CY-209
CY-303	Reaction Kinetics	CY-303
CY-416	Nanotechnology	CY-416
EC-101	Microeconomics-I	EC-101
EC-201	Microeconomics-II	EC-201
EE-116	Principles of Electrical Engineering	EE-114, EE-116, EE-113, EE-101, EE-117, EE-102, EE-118, EE-115, EE-101, EE-119
EE-120	Basic Electrical Engineering	EE-120
EE-121	Circuit Analysis	EE-121
EE-122	Basic Electricity and Electronics	EE-122
EE-123	Basic Electrical Engineering	EE-123
EE-124	Basic Electricity and Electronics	EE-124
EE-125	Basic Electrical Engineering	EE-125
EE-126	Circuit Analysis	EE-126
EE-156	Engineering Drawing	EE-156
EE-163	Computers and Programming	TC-105, CS-107, CS-103, EE-163
EE-211	Circuit Theory - I	EE-211
EE-221	Instrumentation	EE-221, EE-223, EE-222
EE-241	Electrical Machines - I	EE-241
EE-246	Electrical Machines	EE-246
EE-264	Data Structures and Algorithms	EE-264
EE-281	Electromagnetic Fields	EE-281, EE-382
EE-312	Circuit Theory - II	EE-216, EE-312, EE-316

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EE-342	Electrical Machines - II	EE-342
EE-345	Electrical Machines	EE-345
EE-351	Electrical Power Transmission	EE-351
EE-352	Electrical Power Transmission	EE-352
EE-361	Power System Analysis	EE-361
EE-362	Power System Analysis	EE-362
EE-374	Feedback Control Systems	EE-374, EE-474, EE-372, EE-373
EE-394	Digital Signal Processing	EE-394
EE-411	Power Generation	EE-411
EE-412	Alternate Energy Systems	EE-412
EE-493	Digital Signal Processing	CS-419, EE-393, EE-493
EF-303	Applied Economics for Engineers	PF-303, EF-303, IF-301, BF-303, MF-303, CF-303, EF-303
EF-304	Occupational Safety & Health	EF-304
EF-305	Engineering Economics & Management	EF-305
EL-103	Basic Electronics	EL-103, EL-102, EL-232, EL-134
EL-104	Electronic Engineering Drawing and Workshop	EL-104
EL-238	Digital Electronics	EL-238
EL-239	Analog Integrated Circuits	EL-239
EL-240	Electronic Devices and Circuits	EL-240
EL-333	Integrated Circuits	EL-333
EL-343	Power Electronics	EL-343, EL-344
EL-386	Introduction to Biomedical Engineering	EL-386
EL-433	Solid State Devices	EL-433
EL-485	Opto Electronics and Microwave Systems	EL-485, EL-484
EN-301	Environmental Engineering - I	EN-301
EN-401	Environmental Engineering - II	EN-401
HS-105	Pakistan Studies	HS-106, HS-105
HS-111	Functional English	HS-104, HS-102, HS-103, HS-101, HS-111, HS-104, HS-114
HS-201	Oral Communications	HS-201
HS-205	Islamic Studies	HS-119, HS-205
HS-214	Academic Writing	HS-214, HS-115
HS-219	Professional Ethics	HS-219
HS-301	Business Organizational Communication	HS-301
HS-304	Business Communication & Ethics	HS-404, HS-208, HS-304
HS-403	Entrepreneurship	HS-403, CS-425
IM-101	Computer Applications in Engineering	IM-101, CS-101
IM-105	Thermofluids	IM-105
IM-203	Manufacturing Processes	ME-203, AU-211, ME-203, IM-203
IM-207	Computer Programming & Drafting	CE-202, IM-207, PP-211, AU-212, CE-202, ME-207, TE-203
IM-208	Materials Engineering	ME-208, ME-209, IM-208
IM-209	Mechanics of Materials	IM-209
IM-211	Machine Design	IM-211
IM-212	Computer Aided Engineering Design	IM-212
IM-213	Metrology and Quality Control	IM-213
IM-303	Production Management	IM-303
IM-307	Advance Manufacturing Processes	IM-307
IM-308	Operations Research	IM-308
IM-309	Machine Design & CAD	IM-309
IM-411	Methods Engineering	IM-411
ME-101	Engineering Mechanics	CE-102, CN-102, UE-102, CE-102, UE-102, ME-101
ME-102	Engineering Drawing	ME-102, CN-101, ME-111, UE-107, CE-101
ME-103	Thermodynamics	PE-206, ME-103, FD-201, ME-105, ME-103, ME-112
ME-106	Statics	ME-106
ME-107	Basic Mechanical Engineering	ME-107
ME-108	Fundamentals of Thermal-Fluid Engineering	ME-108
ME-110	Basic Mechanical Engineering	ME-110
ME-112	Thermodynamics	ME-105, ME-112, ME-103
ME-112	Engineering Drawing	ME-112
ME-202	Solid Mechanics - I	CE-212, ME-202, MM-205
ME-204	Fluid Mechanics - I	ME-204, CE-204, UE-214, CN-220, CH-105, ME-210, CE-215
ME-205	Element of Machine Dynamics & Design	ME-205

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ME-213	Dynamics	ME-213
ME-214	Computer Programming & Applications	ME-214
ME-215	Internal Combustion Engine	ME-215
ME-216	Production Engineering-I	ME-216
ME-217	Elements of Machine Dynamics & Design	ME-217
ME-302	Solid Mechanics - II	ME-302, ME-302
ME-304	Fluid Mechanics - II	ME-304, ME-314, CH-207
ME-305	Machine Design	ME-305
ME-306	Mechanical Vibrations	ME-306
ME-311	Manufacturing Processes	ME-311
ME-312	Powerplant Engineering	ME-303, ME-312
ME-313	Solid Mechanics - II	ME-313
ME-314	Fluid Mechanics-II	ME-304, ME-314, CH-207
ME-403	Refrigeration and Air-Conditioning	ME-403
ME-406	Heat Transfer	ME-406, ME-315, IM-415
ME-408	Industrial Engineering	ME-415, ME-420, ME-408
ME-417	Compressible Flow and Propulsion Systems	ME-417
ME-419	Stress Analysis	ME-419
ME-420	Operations Management	ME-415, ME-408, ME-420
ME-424	Clean Energy Technology	ME-424
ME-426	Plant Maintenance	ME-426
MG-110	Fundamentals of Management	MG-110
MG-211	Strategic Management	MG-211
MG-212	Technology Management	MG-212
MG-315	Business & Economic Forecasting	MG-315
MM-202	Production and Refining of Materials	MM-202
MM-302	Crystallography and X-ray Diffraction Techniques	MM-302
MM-303	Inspection and Testing of Materials	MM-303
MM-305	Polymer and Composite Materials	PP-303, MM-305, MY-308
MT-100	Introduction to Mathematics	MT-100, MT-100
MT-114	Calculus	MT-173, MT-171, MT-111, MS-111, MT-114
MT-151	Calculus-I	MT-151
MT-154	Computer Applications in Finance	MT-154
MT-156	Discrete Mathematics	MT-156
MT-215	Differential Equations & Complex Variables	MT-215, MS-215, MT-271
MT-222	Linear Algebra & Ordinary Differential Equations	MT-225, MT-221, MT-222, MS-222, MT-273
MT-224	Complex Variables & Fourier Analysis	MS-224, MT-228, MT-224
MT-226	Multi Variable Calculus	MT-226
MT-227	Differential Equations	MT-223, MT-227, MT-223
MT-252	Introduction to Probability & Statistics	MT-252
MT-253	Microeconomics	MT-253
MT-254	Statistical Inference	MT-254, MT-231
MT-256	Macroeconomics	MT-256
MT-257	Stochastic Calculus	MT-257
MT-272	Linear Algebra & Geometry	MS-272, MT-272
MT-330	Applied Probability & Statistics	MT-330
MT-331	Probability & Statistics	MT-229, MS-331, MT-335, MS-331, MT-228, MT-331, MT-331
MT-332	Advanced Calculus & Linear Algebra	MT-332, MS-315, MT-315, MS-332, MS-332
MT-333	Advanced Calculus & Fourier Analysis	MT-333
MT-441	Advanced Mathematical Techniques	MT-441, MS-441
MT-442	Numerical Method	BM-401, MS-442, MT-443, MT-471, MT-442
MT-451	Continuous-Time Finance	MT-451
MT-452	Financial Modelling	MT-452
MT-454	Fuzzy Sets and Fuzzy Logic	MT-454
MT-458	Islamic Banking & Financial System	MT-458
MY-201	Metallurgical Thermodynamics and Kinetics	MY-201, MY-211
MY-202	Fuels and Furnaces	MY-202, MY-206
MY-208	Mineral Processing	MY-208, MY-203
MY-210	Iron Making Processes	MY-210, MY-205
MY-301	Steel Making Processes	MY-301, MY-309
MY-305	Metal Forming & Shaping Process	MY-209, MY-305

OFFERED COURSE CODE	OFFERED COURSE TITLE	COVERED COURSES
MY-401	Vacume Metallurgy	MY-401
MY-402	Advanced Materials	MY-402
MY-404	Advances in Special Steels	MY-404
MY-407	Design, Selection and Characterisation of Engineering Mat	MY-407, MM-402, MM-401
PE-201	Drilling Engineering	PE-201, PE-207
PE-302	Reservoir Fluid Properties	PE-302
PE-307	Well Logging	PE-311, PE-307
PH-102	Heat & Thermodynamics	PH-102
PH-104	Waves & Oscillations	PH-104
PH-105	Electricity & Magnetism	PH-105
PH-106	Physics Lab-II	PH-106
PH-122	Applied Physics	PH-122, PH-126, PH-121
PH-202	Modern Physics	PH-202
PH-203	Physics Lab-III	PH-203
PH-403	Solid State Physics-II	PH-403
PP-106	Thermodynamics-I	CH-102, PP-106
PP-202	Polymer Physics	PP-202
PP-207	Fluid Mechanics	PP-207
PP-301	Process Control and Instrumentation	CH-306, PP-301
PP-307	Polymer Composites	PP-307
PP-308	Heat Transfer	PP-308
PP-413	Process Optimization	CH-404, PP-413
SE-201	Object Oriented Concepts & Programming	CS-203, SE-201, CT-251
SE-202	Computer Graphics	CT-352, SE-202
SE-206	Web Engineering	CT-362, SE-206
SE-207	Software Engineering	SE-207
SE-303	Operating Systems	CS-317, SE-303, CT-353
SE-403	Data Warehouse Methods	SE-403
TC-203	Digital Logic Design	TC-203
TC-204	Signals and Systems	TC-204, EE-231
TC-212	Digital Signal Processing	TC-212
TC-307	Communication Systems	TC-307
TC-311	Digital Communication and Information Theory	TC-311
TC-316	Telecommunication Networks	TC-316
TC-384	Communication Systems	TC-384, TC-383
TE-111	Textile Chemistry	TE-111, TE-101
TE-205	Pre-treatment of Textile	TE-205
TE-206	Fluid Mechanics for Textiles	TE-206
TE-304	Textile Mill Utilities - I	TE-304
TE-305	Quality Control In Textiles	TE-305, MM-207
TE-307	Utilities for Textile Industry	TE-307
TE-313	Textile Product Evaluation-I	TE-313
TE-316	Textile Chemical Processes-I	TE-306, TE-316
TE-319	Heat & Mass Transfer	TE-319
TE-406	Textile Production Management	TE-406
TE-407	Textile & Environment	TE-407
TE-413	Textile Product Evaluation-II	TE-413
TE-414	Textile Chemical Processes-II	TE-414
TE-451	Automation & Control in Textile	TE-451
TE-462	Advanced Fabric Manufacturing Mechanism	TE-462
TS-102	Textile Raw Materials-I	TS-102
TS-108	Textile Raw Materials-II	TS-108
TS-205	Pre-Spinning Processes	TS-205
TS-209	Colour Science	TS-209
TS-233	Textile Testing-I	TS-233
TS-245	Pre-treatment in Textiles	TS-245
TS-354	Knitting Technology	TS-354
TS-361	Textile Testing-II	TS-361
UE-102	Statics and Dynamics	ME-101, CN-102, UE-102, CE-102
UE-104	Engineering Materials	UE-104, CN-104, CE-104
UE-117	Engineering Drawing & Drafting-I	UE-117

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UE-202	Engineering Surveying-II	UE-202
UE-205	Engineering Drawing & Drafting-II	UE-205
UE-208	Law and Regulatory Control Studies	UE-208
UE-209	Analysis of Structures	UE-209
UE-212	Mechanics of Solids	CE-212, UE-212, CE-205
UE-213	Planning and Design of Transportation Systems	UE-213, UE-213
UE-303	Principles of Engineering Construction	UE-303
UE-305	Soil Mechanics - I	CE-305, UE-305
UE-306	Structural Analysis and Design	UE-306
UE-316	Traffic Engineering and Management	UE-316
UE-317	Reinforced Concrete Design	CE-304, UE-304, UE-317
UE-318	Principles of Engineering Construction	CE-303, UE-318, CE-315
UE-320	Urban Hydrology and Municipal Engineering	UE-320
UE-403	Soil Mechanics - II	CE-403, CN-328, UE-403
UE-407	Advanced Technologies and Disaster Management	UE-407
UE-415	Urban Engineering Project	UE-415
UE-416	Mechanics and Design of Steel Structures	UE-416, CE-401, CE-401
UE-417	Advance Technologies and Disaster Management	CN-421, UE-417