

List of courses offered in Summer 2018

No	Course	Course Title	Department
1	AR-141	Communications and Skills-I	AR
2	AR-142	Communications and Skills-II	AR
3	AR-231	Environmental Design and Systems-I	AR
4	AR-241	Communications and Skills-III	AR
5	AR-301	Architectural Design-III	AR
6	AR-402	Architectural Design-VI	AR
7	AR-502	Architectural Design Project	AR
8	AR-521	Comprehensive Environmental Design	AR
9	AR-551	Advanced Technologies in Architectural Practice	AR
10	AR-552	Construction and Materials-VI	AR
11	DS-108	Principles of Economics	AR
12	DS-205	Political Economy	AR
13	AU-103	Introduction to Automotive Systems	AU
14	AU-201	Automotive Power Plants	AU
15	AU-203	Statistics & Quality Control	AU
16	AU-222	Automobile Instrumentation	AU
17	AU-231	Manufacturing Engineering-I	AU
18	AU-311	Manufacturing Engineering II	AU
19	AU-315	Design of Machine Elements	AU
20	AU-401	Vehicle Thermal Management	AU
21	AU-412	FEM and FVM: Application in Automotive Engineering	AU
22	AU-414	Hybride Vehicles & Drives	AU
23	BM-100	Introduction to Biology (for pre-engineering students)	BM
24	BM-101	Introduction to Biomedical Engineering	BM
25	BM-113	Engineering Mechanics	BM
26	BM-114	Anatomy	BM
27	BM-115	Physiology-I	BM
28	BM-208	Biomedical Electronics	BM
29	BM-209	Basic Electronics	BM
30	BM-220	Biophysics	BM
31	BM-310	Control Systems for Biomedical Engineers	BM
32	BM-311	Bioinstrumentation & Measurements-II	BM
33	BM-421	Genetic Engineering	BM
34	BM-427	Product Design in Biomedical Engineering	BM
35	CE-103	Engineering Surveying - I	CE
36	CE-106	Introduction to Computing for Civil Engineers	CE
37	CE-201	Engineering Surveying - II	CE
38	CE-203	Engineering Drawing -II	CE
39	CE-206	Geology for Engineers	CE
40	CE-209	Structural Analysis-I	CE
41	CE-219	Fluid Mechanics-I	CE
42	CE-220	Geology for Engineers	CE
43	CE-221	Structural Analysis-I	CE
44	CE-301	Mechanics of Solids-II	CE

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No	Course	Course Title	Department
45	CE-302	Transportation Engineering -I	CE
46	CE-314	Structural Analysis - II	CE
47	CE-316	Quantity and Cost Estimation	CE
48	CE-319	Fluid Mechanics-II	CE
49	CE-320	Reinforced Concrete Design-I	CE
50	CE-321	Construction Engineering	CE
51	CE-322	Mechanics of Solids-II	CE
52	CE-323	Quantity & Cost Estimation	CE
53	CE-351	Structures for Architects - II	CE
54	CE-405	Reinforced Concrete Design -II	CE
55	CE-407	Transportation Engineering -II	CE
56	CE-410	Masonry Structures	CE
57	CE-413	Essentials in Construction Project Management	CE
58	CE-418	Hydraulic and Water Resources Engineering-I	CE
59	CN-108	Basic Engineering Drawing	CE
60	CN-219	Structures-I	CE
61	CN-226	Construction Engineering Drawing	CE
62	CN-227	Building Construction Technology	CE
63	CN-228	Structures-I	CE
64	CN-334	Structures-II	CE
65	CN-416	Legal and Regualtory Environment in the Construction Industry	CE
66	CN-417	Temporary Structure in Construction	CE
67	CH-103	Inorganic Chemistry	CH
68	CH-104	Chemical Engineering Principle	CH
69	CH-209	Fluid Mechanics-I	CH
70	CH-210	Chemical Engineering Thermodynamics-II	CH
71	CH-302	Separation Processes	CH
72	CH-305	Particulate Technology	CH
73	CH-307	Heat Transfer	CH
74	CH-309	Chemical Reaction Engineering	CH
75	CH-311	Mass Transfer	CH
76	CH-401	Process Modeling and Simulation	CH
77	CH-407	Industrial Organization and Management	CH
78	CH-412	Biochemical Engineering	CH
79	CS-109	Computer Programming	CS
80	CS-111	Object Oriented Programming	CS
81	CS-211	Discrete Structure	CS
82	CS-212	Computer Organization & Design	CS
83	CS-214	Digital Logic Design	CS
84	CS-215	Signals and Systems	CS
85	CS-301	Microprocessor Based System Design	CS
86	CS-302	Software Engineering	CS
87	CS-318	Computer Communication Networks	CS
88	CS-319	VLSI Design	CS

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No	Course	Course Title	Department
89	CS-322	Computer Architecture	CS
90	CS-352	Digital Communication Systems	CS
91	CS-406	Computer Engineering Project	CS
92	CS-417	Computer System Modeling	CS
93	CS-421	Parallel Processing	CS
94	CS-428	Parallel & Distributed Computing	CS
95	CS-430	Microprocessor Programming and Interfacing	CS
96	CT-153	Programming Languages	CT
97	CT-157	Data Structure Algorithms & Applications	CT
98	CT-173	Introduction to Computer Applications	CT
99	CT-255	Assembly Language Programming	CT
100	CT-257	Database Management Systems	CT
101	CT-258	Financial & Cost Accounting	CT
102	CT-452	Modeling and Simulation	CT
103	CT-461	E-Commerce	CT
104	CY-109	Applied Chemistry	CY
105	CY-113	Inorganic Chemistry-I	CY
106	CY-120	Analytical Chemistry-I	CY
107	CY-208	Organic Chemistry-II	CY
108	CY-209	Analytical Chemistry-II	CY
109	CY-303	Reaction Kinetics	CY
110	CY-416	Nanotechnology	CY
111	EC-101	Microeconomics-I	EC
112	EC-201	Microeconomics-II	EC
113	MG-110	Fundamentals of Management	EC
114	MG-211	Strategic Management	EC
115	MG-212	Technology Management	EC
116	MG-213	Introduction to Business Finance	EC
117	MG-315	Business & Economic Forecasting	EC
118	EE-116	Principles of Electrical Engineering	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
127	EE-163	Computers and Programming	EE
128	EE-211	Circuit Theory - I	EE
129	EE-221	Instrumentation	EE
130	EE-241	Electrical Machines - I	EE
131	EE-246	Electrical Machines	EE
132	EE-264	Data Structures and Algorithms	EE

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No	Course	Course Title	Department
133	EE-281	Electromagnetic Fields	EE
134	EE-312	Circuit Theory - II	EE
135	EE-342	Electrical Machines - II	EE
136	EE-345	Electrical Machines	EE
137	EE-351	Electrical Power Transmission	EE
138	EE-352	Electrical Power Transmission	EE
139	EE-361	Power System Analysis	EE
140	EE-362	Power System Analysis	EE
141	EE-374	Feedback Control Systems	EE
142	EE-394	Digital Signal Processing	EE
143	EE-411	Power Generation	EE
144	EE-412	Alternate Energy Systems	EE
145	EE-454	Energy Conversion	EE
146	EE-457	Electrical Power System Protection	EE
147	EE-493	Digital Signal Processing	EE
148	EF-303	Applied Economics for Engineers	EL
149	EF-304	Occupational Safety & Health	EL
150	EF-305	Engineering Economics & Management	EL
151	EL-103	Basic Electronics	EL
152	EL-104	Electronic Engineering Drawing and Workshop	EL
153	EL-238	Digital Electronics	EL
154	EL-239	Analog Integrated Circuits	EL
155	EL-240	Electronic Devices and Circuits	EL
156	EL-333	Integrated Circuits	EL
157	EL-343	Power Electronics	EL
158	EL-386	Introduction to Biomedical Engineering	EL
159	EL-433	Solid State Devices	EL
160	EL-485	Opto Electronics and Microwave Systems	EL
161	TC-203	Digital Logic Design	EL
162	TC-204	Signals and Systems	EL
163	TC-212	Digital Signal Processing	EL
164	TC-307	Communication Systems	EL
165	TC-311	Digital Communication and Information Theory	EL
166	TC-316	Telecommunication Networks	EL
167	TC-384	Communication Systems	EL
168	EN-301	Environmental Engineering - I	EN
169	EN-401	Environmental Engineering - II	EN
170	HS-105	Pakistan Studies	HS
171	HS-111	Functional English	HS
172	HS-120	Introduction to English Literature-I	HS
173	HS-201	Oral Communications	HS
174	HS-205	Islamic Studies	HS
175	HS-214	Academic Writing	HS
176	HS-216	Principles of Economics	HS

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No	Course	Course Title	Department
177	HS-219	Professional Ethics	HS
178	HS-301	Business Organizational Communication	HS
179	HS-304	Business Communication & Ethics	HS
180	HS-403	Entrepreneurship	HS
181	HS-405	Organizational Behaviour	HS
182	IM-101	Computer Applications in Engineering	IM
183	IM-105	Thermofluids	IM
184	IM-203	Manufacturing Processes	IM
185	IM-207	Computer Programming & Drafting	IM
186	IM-208	Materials Engineering	IM
187	IM-209	Mechanics of Materials	IM
188	IM-211	Machine Design	IM
189	IM-212	Computer Aided Engineering Design	IM
190	IM-213	Metrology and Quality Control	IM
191	IM-303	Production Management	IM
192	IM-307	Advance Manufacturing Processes	IM
193	IM-308	Operations Research	IM
194	IM-309	Machine Design & CAD	IM
195	IM-411	Methods Engineering	IM
196	ME-101	Engineering Mechanics	ME
197	ME-102	Engineering Drawing	ME
198	ME-103	Thermodynamics	ME
199	ME-106	Statics	ME
200	ME-107	Basic Mechanical Engineering	ME
201	ME-108	Fundamentals of Thermal-Fluid Engineering	ME
202	ME-110	Basic Mechanical Engineering	ME
203	ME-112	Thermodynamics	ME
204	ME-202	Solid Mechanics - I	ME
205	ME-204	Fluid Mechanics - I	ME
206	ME-205	Element of Machine Dynamics & Design	ME
207	ME-213	Dynamics	ME
208	ME-214	Computer Programming & Applications	ME
209	ME-215	Internal Combustion Engine	ME
210	ME-216	Production Engineering-I	ME
211	ME-217	Elements of Machine Dynamics & Design	ME
212	ME-302	Solid Mechanics - II	ME
213	ME-304	Fluid Mechanics - II	ME
214	ME-305	Machine Design	ME
215	ME-306	Mechanical Vibrations	ME
216	ME-311	Manufacturing Processes	ME
217	ME-312	Powerplant Engineering	ME
218	ME-313	Solid Mechanics - II	ME
219	ME-314	Fluid Mechanics-II	ME
220	ME-403	Refrigeration and Air-Conditioning	ME

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No	Course	Course Title	Department
221	ME-406	Heat Transfer	ME
222	ME-408	Industrial Engineering	ME
223	ME-417	Compressible Flow and Propulsion Systems	ME
224	ME-419	Stress Analysis	ME
225	ME-420	Operations Management	ME
226	ME-424	Clean Energy Technology	ME
227	ME-426	Plant Maintenance	ME
228	MM-202	Production and Refining of Materials	MM
229	MM-302	Crystallography and X-ray Diffraction Techniques	MM
230	MM-303	Inspection and Testing of Materials	MM
231	MM-305	Polymer and Composite Materials	MM
232	MT-100	Introduction to Mathematics	MT
233	MT-114	Calculus	MT
234	MT-151	Calculus-I	MT
235	MT-154	Computer Applications in Finance	MT
236	MT-156	Discrete Mathematics	MT
237	MT-215	Differential Equations & Complex Variables	MT
238	MT-222	Linear Algebra & Ordinary Differential Equations	MT
239	MT-224	Complex Variables & Fourier Analysis	MT
240	MT-226	Multi Variable Calculus	MT
241	MT-227	Differential Equations	MT
242	MT-252	Introduction to Probability & Statistics	MT
243	MT-253	Microeconomics	MT
244	MT-254	Statistical Inference	MT
245	MT-256	Macroeconomics	MT
246	MT-257	Stochastic Calculus	MT
247	MT-272	Linear Algebra & Geometry	MT
248	MT-330	Applied Probability & Statistics	MT
249	MT-331	Probability & Statistics	MT
250	MT-332	Advanced Calculus & Linear Algebra	MT
251	MT-333	Advanced Calculus & Fourier Analysis	MT
252	MT-441	Advanced Mathematical Techniques	MT
253	MT-442	Numerical Method	MT
254	MT-451	Continuous-Time Finance	MT
255	MT-452	Financial Modelling	MT
256	MT-454	Fuzzy Sets and Fuzzy Logic	MT
257	MT-458	Islamic Banking & Financial System	MT
258	MY-201	Metallurgical Thermodynamics and Kinetics	MY
259	MY-202	Fuels and Furnaces	MY
260	MY-208	Mineral Processing	MY
261	MY-210	Iron Making Processes	MY
262	MY-301	Steel Making Processes	MY
263	MY-305	Metal Forming & Shaping Process	MY
264	MY-401	Vacuum Metallurgy	MY

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No	Course	Course Title	Department
265	MY-402	Advanced Materials	MY
266	MY-404	Advances in Special Steels	MY
267	MY-407	Design, Selection and Characterisation of Engineering Material	MY
268	PE-201	Drilling Engineering	PE
269	PE-302	Reservoir Fluid Properties	PE
270	PE-307	Well Logging	PE
271	PE-401	Reservoir Simulation	PE
272	PE-408	Well Testing	PE
273	PH-102	Heat & Thermodynamics	PH
274	PH-104	Waves & Oscillations	PH
275	PH-105	Electricity & Magnetism	PH
276	PH-106	Physics Lab-II	PH
277	PH-122	Applied Physics	PH
278	PH-202	Modern Physics	PH
279	PH-203	Physics Lab-III	PH
280	PH-401	Computational Physics	PH
281	PH-403	Solid State Physics-II	PH
282	PH-415	Statistical Mechanics	PH
283	PP-106	Thermodynamics-I	PP
284	PP-202	Polymer Physics	PP
285	PP-207	Fluid Mechanics	PP
286	PP-301	Process Control and Instrumentation	PP
287	PP-307	Polymer Composites	PP
288	PP-308	Heat Transfer	PP
289	PP-413	Process Optimization	PP
290	SE-201	Object Oriented Concepts & Programming	SE
291	SE-202	Computer Graphics	SE
292	SE-206	Web Engineering	SE
293	SE-207	Software Engineering	SE
294	SE-303	Operating Systems	SE
295	SE-403	Data Warehouse Methods	SE
296	TE-111	Textile Chemistry	TE
297	TE-205	Pre-treatment of Textile	TE
298	TE-206	Fluid Mechanics for Textiles	TE
299	TE-214	Polymer & Fibre Science	TE
300	TE-302	Textile Fabric Manufacturing Processes	TE
301	TE-304	Textile Mill Utilities - I	TE
302	TE-305	Quality Control In Textiles	TE
303	TE-307	Utilities for Textile Industry	TE
304	TE-313	Textile Product Evaluation-I	TE
305	TE-316	Textile Chemical Processes-I	TE
306	TE-319	Heat & Mass Transfer	TE
307	TE-326	Textile Dyeing	TE
308	TE-406	Textile Production Management	TE

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No	Course	Course Title	Department
309	TE-407	Textile & Environment	TE
310	TE-413	Textile Product Evaluation-II	TE
311	TE-414	Textile Chemical Processes-II	TE
312	TE-451	Automation & Control in Textile	TE
313	TE-462	Advanced Fabric Manufacturing Mechanism	TE
314	TS-102	Textile Raw Materials-I	TE
315	TS-108	Textile Raw Materials-II	TE
316	TS-205	Pre-Spinning Processes	TE
317	TS-209	Colour Science	TE
318	TS-233	Textile Testing-I	TE
319	TS-245	Pre-treatment in Textiles	TE
320	TS-354	Knitting Technology	TE
321	TS-361	Textile Testing-II	TE
322	CF-313	Applied Economics for Engineers	UE
323	UE-102	Statics and Dynamics	UE
324	UE-104	Engineering Materials	UE
325	UE-117	Engineering Drawing & Drafting-I	UE
326	UE-202	Engineering Surveying-II	UE
327	UE-205	Engineering Drawing & Drafting-II	UE
328	UE-208	Law and Regulatory Control Studies	UE
329	UE-209	Analysis of Structures	UE
330	UE-212	Mechanics of Solids	UE
331	UE-213	Planning and Design of Transportation Systems	UE
332	UE-303	Principles of Engineering Construction	UE
333	UE-305	Soil Mechanics - I	UE
334	UE-306	Structural Analysis and Design	UE
335	UE-316	Traffic Engineering and Management	UE
336	UE-317	Reinforced Concrete Design	UE
337	UE-318	Principles of Engineering Construction	UE
338	UE-320	Urban Hydrology and Municipal Engineering	UE
339	UE-403	Soil Mechanics - II	UE
340	UE-407	Advanced Technologies and Disaster Management	UE
341	UE-416	Mechanics and Design of Steel Structures	UE
342	UE-417	Advance Technologies and Disaster Management	UE