BS Computer Engineering Program

Courses to PLO Mapping

Sem	Course Code	Subject	Learning Domains and Taxonomy Levels											
			1	2	3	4	5	6	7	8	9	10	11	12
1st	MA110	Calculus & Analytical Geometry	C2	C3										
	CE100	Information and Communication Technologies (ICT)	C2	C2		C3								
	CE 100L	Information and Communication Technologies Laboratory	P3				P2				A2			
	EL170	Functional English										C2,C3, C5,A3		
	CE 103	Computer Engineering Workshop				C2	P4				A2			
	CE110	Computer Programming	C1	C2	C3									
	CE110L	Computer Programming Lab	P1	P2							A2			
	PH110	Applied Physics	C1,C2	C2										

Year	Code	Course	1	2	3	4	5	6	7	8	9	10
2nd	CE113	Object Oriented Programming	C2	C3	C3							
	CE113L	Object Oriented Programming Laboratory		P3	P4						A3	
	CE104	Discrete Structures	C2	C3	C3							
	EE100	Circuit Analysis	C2	C3								
	EE100L	Circuit Analysis Laboratory		P1	P3							A3
	MA214	Complex Variables and Transforms	C1, C2	C2, C3, C4								
	EL271	Expository writing										C2,C3, C4
3rd	CE215	Data Structures and Algorithms	C3	C2	C3							
	CE215L	Data Structures and Algorithms Laboratory			P3	P2					A3	
	CE223	Digital Logic Design	C2	C2, C3	C3							
	CE223L	Digital Logic Design Laboratory			P3	P2						A2
	EE286	Electronic Devices and Circuits	C2	C3		C3						

Semester	Code	Course										
	EE286L	Electronic Devices and Circuits Laboratory			P2				A2		P3	
	MA106	Differential Equations	C1,C2, C3	C4, C5, C6								
	HU118 / HU215	Islamic Studies / Ethics *						C1, C3				C2
4th	CE224	Computer Organization and Assembly Language	C3	C4	C4							
	CE224L	Computer Organization and Assembly Language Laboratory	P2		P3				A2			
	CE216	Database Management Systems	C2	C3	C3							
	CE216L	Database Management Systems Laboratory			P3	P4			A2			
	MA201	Linear Algebra	C2, C3	C4	C3							
	MA221/ MA221L	Numerical Analysis and Computation	C3	C4	C3							
	HU405	Ideology and Constitution of Pakistan					C1,C2					C3,C4
	HU411	Civics and Community Engagement					C3, C4	C2,C4				C2,C3
5th	CE332	Operating Systems	C2	C3	C3	C3						

Semester	Code	Course Name										
	CE332L	Operating Systems Laboratory			P3	P3				A2			
	CE337	Computer Communication and Networks	C2	C4	C3						A2		
	CE337L	Computer Communication and Networks Laboratory				P2				A2		P3	
	CE362	Software Engineering			C3			C2					C4
	EE235	Signals and Systems	C2, C3	C3									
	EE235L	Signals and Systems Laboratory				P4				A3		P5	
	MT203	Probability Methods in Engineering	C1	C3,C4									
	HU407	Community Service Learning					C1,C3						C4
6th	CE323	Microprocessors and Interfacing	C2,C3		C3	C4							
	CE323L	Microprocessors and Interfacing Laboratory				P3				A2		P3	
	EE338	Digital Signal Processing	C3	C3	C4								
	EE338L	Digital Signal Processing Laboratory			P5	P5				A3			

Semester	Course Code	Course Name												
	CE346	Digital Image Processing		C3	C4				C3			A3		
	CE346L	Digital Image Processing Laboratory	P3		P3						A2			
	MT467	Applied Robotics	C2	C3		C3								
	EM436	Engineering Management & Entrepreneurship					C2			C3		C3		
	CE497	Final Year Project I	C3	C4		C5	C6							
7th	CE349	Cloud and Distributed Computing	C2	C3	C4									
	CE349L	Cloud and Distributed Computing Laboratory				P5				A2	A2			
	CE425	Digital System Design	C3		C3	C4								
	CE425L	Digital System Design Laboratory			P3	P3				A2				
	CE352	Machine Learning	C1	C3	C3	P3								
	CE352L	Machine Learning Laboratory			P3	P3		A3		A2				
	HU314	Contemporary International Relations					C1							C2,C3

Sem	Code	Course Name	1	2	3	4	5	6	7	8	9	10	11	12
	CE498	Final Year Project II			P4	C5	P6					A4		
8th	CE454	Big Data Analysis	C2	C4		C3								
	CE454L	Big Data Analysis Laboratory												
	EE476	Wireless Communication	C2,C3	C2					C2	C2				
	EM438	Engineering Project Management							C2	A2			C2	
	MT302	Professional Ethics							C2	C3				C4
	CE499	Final Year Project III			P4			C6	C5	A5	A3	A4	A4	A5
	MT409	Occupational Health and Safety	C1	C2										
			43	**39**	**31**	**10**	**17**	**10**	**5**	**7**	**16**	**14**	**7**	**11**