

Doctor of Philosophy (PhD) in Computer Engineering

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
CENG 901	Linear Algebra and Geometry	2
CENG 902	Web Technology	3
CENG 903	Cloud Computing	3
CENG 904	Engineering Mathematics	2
CENG 905	Java Technologies	2
CENG 906	Database Management System	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
CENG 911	Objects Oriented programming	2
CENG 912	Cyber Law	3
CENG 913	Microprocessors	3
CENG 914	Operating System	2
CENG 915	Embedded Systems	2
CENG 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
CENG 921	Distributed computing	2
CENG 922	Computer Graphics	3
CENG 923	Artificial Intelligence	3
CENG 924	Modeling and Simulation	2
CENG 925	Compiler Design	2
CENG 926	Multimedia System Design	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
CENG 1001	Information Security	2
CENG 1002	Network Security	3
CENG 1003	Mobile Computing	3
CENG 1004	Networking Programming	2
CENG 1005	Visual Programming	2
CENG 1006	Year 2: Independent Research II	3
TOTAL CREDITS		15



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YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
CENG 1011	Compiler Principles and Techniques	2
CENG 1012	Advanced Computer Networks	3
CENG 1013	Distributed Operating Systems	3
CENG 1014	Wireless Communication Systems	2
CENG 1015	Digital Communication Systems	2
CENG 1016	Engineering Decision Support	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
CENG 1021	Simulation Fundamentals	2
CENG 1022	Development Methodology	3
CENG 1023	Dynamics of Complex Engineering Systems	3
CENG 1024	Survey of Artificial Intelligence	2
CENG 1025	Year 3: PhD Research Thesis	5
TOTAL CREDITS		15

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