In the Name of God



Shahid Chamran University Of Ahvaz **Shahid Chamran University of Ahvaz Fundamental of Electrical Engineering II (3 Credits)** Fall 2021 (1400-01) Hossein Farzin, PhD **Instructor** Office Second Floor, Electrical Engineering Department Contact Farzin.hossein@gmail.com, farzin@scu.ac.ir P. C. Sen, "Principles of Electric Machines and Power Electronics", Third Edition, **Text Book** Wiley, 2015. S. J. Chapman, "Electric Machinery Fundamentals" McGraw-Hill, 2005. A. E. Fitzgerald, C. Kingsley, S. D. Umans, & B. James, "Electric Machinery" **Reference Books** McGraw-Hill, 2003. **Online Course URL** meeting.scu.ac.ir/fee2-001/ Introducing the fundamentals of magnetic circuits, transformers and major types of **Course Objective** electric machines **Magnetic Circuits Inductance and Core Loss** Single Phase Transformers Introduction to Three Phase Systems Three Phase Transformers **Topics** DC Machinery Fundamentals Different Types of DC Machines DC Motors Starting and Speed Control Introduction to Induction and Synchronous Machines Introduction to Special-purpose Motors **Grading** Homework + Quiz 4 points **Mid-Term Exam** 7 points (Date to be announced) **Final Exam** 9 points (22 Dey 1400)

Total

20 points