In the Name of God	
دان شکل شهر تر ب ران اهواز Shahid Chamran University of Ahvaz	
Shahid Chamran University of Ahvaz Fundamentals of Electrical Engineering (3 Credits)	
Spring 2020 (1398-99)	
Instructor	Hossein Farzin, PhD
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Text Book	Hayt, William Hart, Jack Ellsworth Kemmerly, and Steven M. Durbin. <i>Engineering Circuit Analysis</i> . McGraw-Hill, 8 <sup>th</sup> Edition, 2011.
<b>Reference Books</b>	<ul> <li>Smith, Ralph J., and Richard C. Dorf. <i>Circuits, Devices and Systems</i>. John Wiley &amp; Sons, 2009.</li> <li>Nilsson, James W., and Susan Riedel. <i>Electric Circuits</i>. Prentice Hall Press, 2010.</li> </ul>
Course Objective	Introducing the fundamentals of electrical engineering for undergraduate students of materials science and engineering
Topics	Preliminaries
	Analysis of Resistive Circuits
	Analysis of Sinusoidal AC Circuits
	Introduction to Three-Phase Systems
	Transformers
	Introduction to Electric Machines
	Introduction to Electronics
Grading	
Homework + Quiz	4 points
Mid-Term Exam	7 points
Final Exam	9 points
Class Activity	Bonus Points
Total	20 points