## The Hashemite University Electrical Engineering Dept. Course Syllabus Second Semester 2020/2021

Course Title: Department: Prerequisite(s): Instructor: Instructor's e-mail:	Electrical Machines IICourse Number:409464Electrical EngineeringDesignation:ElectiveElectrical Machines IElectrical Machines IElectrical Machines IProf. Mohammad WidyanInstructor's Office:E 3092mohammadwidyan@hu.edu.jomohammadwidyan@yahoo.comE 3092
Office Hours: Time: Course description:	12:00-13:00 Sun., Tue. and Thu. 10:00-11:00 Mon. and Wed. via MS Teams 11:00-12:00 Sun., Tues., Thu. <b>Class Room:</b> Online via MS Teams This course is an extension for the first course of Electrical Machines. It provides the students with some additional detailed knowledge for three-phase transformers, synchronous generators, synchronous motors, induction motors and permanent-magnet materials and their application in electrical machines (permanent-magnet machines).
Textbook: Other Required Material:	Electrical Machinary Fundamentals by Stephen J. Chapman, 4 <sup>th</sup> Edition, 2005. Lecture Notes
Course Objectives:	<ul> <li>Successful completion of this course should lead to knowledge and understanding of:</li> <li>1) Three-phase transformers.</li> <li>2) Fundamentals of AC machines.</li> <li>3) Synchronous generator (operating alone and paralleled with power system).</li> <li>4) Synchronous motor.</li> <li>5) Permanent-magnet materials and their applications in electrical machines.</li> </ul>
Class Schedule:	3 class sessions each week; 50 minutes each.
Grading Plan:	Course:First Exam(30 Points)Second Exam(30 Points)
	Final Exam (40 Points)
General Notes:	<ol> <li>Attendance is mandatory. No more than 15% no-excuse absents is permitted.</li> <li>Excuses for absents in First and Second Exams are NOT acceptable!</li> </ol>
Prepared By:	Prof. Mohammad Widyan Date: 21.02.2021