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| Date: | Examination No.: 15367 | Version:1/9/2022 | Start: 1/9/2022 |
| **Module Name - Code** | electrical machine 3120 | | |
| **Module Language:** | English | | |
| **Responsible:** | Assistant Lecturer wafeeq sh. hanna | | |
| **Lecture (s):** |  | | |
| **College:** | College of Engineering – Salahaddin University | | |
| **Duration:** | 15 week – 1 semester | | |
| **Course outcomes:** | To understand the construction and operation of diﬀerent types of electrical machine (DC & AC), Also get knowledge about the single phase and three phase transformer , Finally when the student understand all subjects they can solve the problems easily. Practically the student will  be able to run the tests oﬀ diﬀerent machine types in the electrical lab using the equivalent circuits of corresponding machine. | | |
| **Course Content:** | DC machine :(DC generator & DC motor) : Equivalent circuit , torque speed characteristic , speed control, Induced voltage equation, output machine performance.  Transformers  single phase & three phase : construction , equivalent circuit, tests , loses, eﬃciency. | | |
| **Literature:** | DC machine and transformers-Second edition- Kmurugesh Kumer.  Electrical Machines - S.N. Ali Electrical Machines- B.R Sharma Electrical Machinery - Dr. S.K Sen Electrical Technology - B.L Theraja  Electrical Machines , Drives and power system - Theodore Wildi Electrical Machines - U.A Bakasha & V.U Bakasha  Electric machinery Fundamentals - Third Edtion - Stephen J. Chapman | | |
| **Type of Teaching:** | 4h in lectures  2 h laboratory working. | | |
| **Pre-requisites:** |  | | |
| **Frequency:** | Yearly in fall semester | | |
| **Requirements for credit points:** | For the award of credit points it is necessary to pass the Mid Term exam.  The Mid- term exam (practical and theoretical) contains: theoretical 25%  practical 15%  **Student's attendance is required in all classes**. | | |
| **Credit point:** | 4 | | |
| **Grade Distribution:** | The Grade is generated from the examination result(s) as the following:  75 % Theoretical  25% practical  distributed us :  25% Theoretical (theoretical mid-term Exam + quiz+ class activity)  15 % practical eﬀort (reports + Student's attendance in the Lab existence + discussion)  50% ﬁnal theoretical Exam  10% ﬁnal practical exam | | |
| **Work load:** | 1Credit= 27h workload, 4 Credit \*27=108h(The workload is 108h Per Semester). It is the result from 75h (15\*5h per week). Face To Face learning , and 33h Self learning Per Semester. | | |

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