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| Date: |  | Version:1/9/2023 | Start: 1/9/2023 |
| **Module Name - Code** | Wireless networks  - 3014 |
| **Module Language:** | English |
| **Responsible:** | Assistant Prof. Aree Akram Muhammed |
| **Lecture (s):** | Theory : Aree AkramPractical: Aree Akram & Nuraddin TaHA |
| **College:** | College of Engineering – Salahaddin University |
| **Duration:** | 15 week – 1 semester |
| **Course outcomes:** | At the end of the semester, students would be able to understand the principles of operation of wireless network , with configuration of router with dynamic and static routing protocols |
| **Course Content:** | The course consists of six chapters. Upon completion of these chapters, student will be able to answer the following:What are the primary functions and features of a router?How do you connect devices for a small, routed network?How do you configure basic settings on a router to route between twodirectly connected networks, using CLI?How do you verify connectivity between two networks that are directlyconnected to a router?What is the encapsulation and de-encapsulation process used by routerswhen switching packets between interfaces?What is the path determination function of a router?What are the routing table entries for directly connected networks?How does a router build a routing table of directly connected networks?How does a router build a routing table using static routes?How does a router build a routing table using a dynamic routing protocol?  |
| **Literature:** |  Routing and Switching Essentials v6Companion GuideCisco Networking Academy |
| **Type of Teaching:** | 2 hrs in lectures 1 hr (practical). |
| **Pre-requisites:** |  |
| **Frequency:** | Yearly in the fall semester |
| **Requirements for  credit points:** | For the award of credit points which is 7, it is necessary to pass the module exams.The module exams include (practical and theoretical) Student's attendance is required in all classes. |
| **Credit point:** | 7 |
| **Grade Distribution:** | The Grade is generated from the examination result(s) with the following20 % theory + 20% practical (lab.) = 40% Annual efforts40 % theory + 20% practical (lab.) = 50% Final  |
| **Work load:** | The workload is 150 hrs. It is the result of 45 hrs attendance and 105 hrs self-studies. |

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