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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 Akram  Practical: 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 two  directly connected networks, using CLI?  How do you verify connectivity between two networks that are directly  connected to a router?  What is the encapsulation and de-encapsulation process used by routers  when 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 v6  Companion Guide  Cisco 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 following  20 % theory + 20% practical (lab.) = 40% Annual efforts  40 % 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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