## **Routing and Switching**

Course Title: Routing and Switching								
Course Code: CIE60034		<b>Student</b> <b>Workload:</b> 8.50 Hours/ Weeks	Credits: 3 Credits (4.50 ECTS)	Semester: 6 <sup>th</sup> Semester		<b>Frequency:</b> Even Semester		Duration: 16 Weeks/ Semester (Lecture: 14 weeks; Midterm assessment: 1 week; Final assessment: 1 week)
	Content Knowledge L Course V		Hours/ Week	cturing: 1.67 Hours/ eek; <i>Practical Work</i> : 2.83 ours/ Week				s Size: tudents
	Prerequisites for Participation (If Applicable): Computer Network							
3	Learning Outcomes: 1. M1: Able to explain how a routing protocol works in an internet protocol network (ILO-5) (0,2) 2. M2: Able to explain how Quality of Service (QoS) Routing and MPLS work (ILO-5) (0,2) 3. M3: Able to implement routing protocols and VLANs (ILO-6; ILO-9) (0,3; 0,3)							
	Subject aims/Content: At the end of the course, students are expected:  1. L1: Able to implement internet protocol addressing (M1)  2. L2: Able to explain the working principle of the routing protocol and its framework (M1)  3. L3: Able to explain how Quality of Service (QoS) based routing works (M2)  4. L4: Able to implement VLAN (M3)							
	Teaching Methods: Lecturing, Group Discussion, Project-Based Learning							
6	Assessment Methods: Multiple Choice, Essay, Performance Test, Anecdotal Record/Logbook, Project Assessment							
7	This Course is Used in The Following Study Programme/s as Well:							
	Responsibility for Course: Tri Afirianto, S.T., M.T. Faizatul Amalia, S.Pd., M.Pd.							
	Other Information: Bibliography:  1. Medhi, Deepankar. 2007. Network Routing Algorithm, Protocol and Architectures, Morgan Kaufman.  2. Sofana, Iwan, Cisco CCNA-CCNP, Routing dan Switching.							