**Course Description Form**

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| 1. Course Name: | | | | | | |
| Computer Network | | | | | | |
| 2. Course Code | | | | | | |
| WBM-52-05 | | | | | | |
| 3. Semester/Year: | | | | | | |
| Second Semester / Fifth Year | | | | | | |
| 4. Date of preparation of this description: | | | | | | |
| 19/3/2024 | | | | | | |
| 5. Available Attendance Forms: | | | | | | |
| Attend a lecture | | | | | | |
| 6. Number of credit hours (total) / number of units (total): | | | | | | |
| 2 hours / 60 | | | | | | |
| 7. Course administrator's name (if more than one name) | | | | | | |
| m m Ahmed zaki and there is  Email: ahmed.za@uowa.edu.iq | | | | | | |
| 8. Course Objectives | | | | | | |
| Course Objectives  Tuition | | The article aims to show the means and methods contained in the computer network, where the article deals with explaining the means of communication and indicating their quality, efficiency, ways to improve their performance and the factors affecting them, and on the other hand, how to transfer data within the computer network and the methods and protocols used to transfer this data. | | | | |
| 9. Teaching and learning strategies | | | | | | |
| Strategy | | B1 – To be able to know the methods of transmitting the signal and information through users and stations to transmit information  B2 – To be able to design small networks and understand the mechanism of applying theoretical information in practical life | | | | |
| **10. Course Structure** | | | | | | |
| **The week** | **Hours** | | **Required Learning Outcomes** | **Unit or subject name** | **Learning method** | **Evaluation method** |
| First | 2 | | Understand the principles of networking and the workplaces of this important specialization in the areas of life | Types of computer Networks (clients server, Peer-to-peer,& Wireless networks)  classifying the computer networks (Home network, LAN, MAN, WAN,  Wireless Networks,& Internet work) | Using illustrative images and explaining the use of networks in areas of life | Daily exams  +Homework  + Monthly exams |
| Second |  | | Understand how to communicate and how to transfer information | The Reference models [1. The OSI model (design issues for the layers,  connection oriented & connectionless layers' services, Service Primitives, &  The OSI Layers)] | Lectures displayed in PDF format | Daily exams  +Homework  + Monthly exams |
| Third |  | |  | Wired LANs: Ethernet Wireless LANs : IEEE 802.11, Bluetooth | Lectures displayed in PDF format | Daily exams  +Homework  + Monthly exams |
| Fourth |  | |  |  | Lectures displayed in PDF format | Daily exams + homework + monthly exams |
| V+  Sixth |  | |  | The TCP/IP Model | Lectures displayed in PDF format | Daily exams + homework + monthly exams |
| VII + VIII |  | |  | IP Addressing | Lectures displayed in PDF format | Daily exams + homework + monthly exams |
| Ninth+Tenth |  | |  | Routers & Cisco IOS | Lectures displayed in PDF format | Daily exams + homework + monthly exams |
| Eleventh |  | |  | Cisco IOS | Lectures displayed in PDF format | Daily exams + homework + monthly exams |
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| Twelfth |  |  | Wireless WANs ,Cellular Telephone and Satellite Networks | Lectures displayed in PDF format | Daily exams + homework + monthly exams + homework + monthly exams |
| Thirteenth |  |
| Fourteenth |  |  | Synchronous Optical Network Virtual-Circuit Networks | Lectures displayed in PDF format | Daily exams + homework + monthly exams + homework + monthly exams |
| Fifteenth |  |  |

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| 11. Course Evaluation | |
| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports .... etc | |
| 12. Learning and Teaching Resources | |
| 1- Required textbooks: | Computer Networking\_ A Top-Down Approach -James Kurose Keith Ross-7th Edition 2017 |
| 2- Main references (sources) | ü College Library to obtain additional resources for the curriculum.  ü View the scientific websites to see the latest developments in the article. |
| A- Recommended books and references (scientific journals, reports,.......) |  |
| B- Electronic References, Websites | 1- <https://www.netacad.com/>  2- <https://mikrotik.com/training/academy>  3- <https://www.hawaiiacademy.com/> |