| CE-CN447 | Network Management | 2 Hours/Week | 2 Units |
|---|---|---|---|

| Contents of Syllabus | Hours |
|---|---|
| 1- Course Introduction | 2 |
| 2- What it network management and why it is important | 2 |
| 3- Managing networks | 2 |
| 4- Architectural functional blocks for network management | 2 |
| 5- Network management tools | 2 |
| 6- FCAPS: fault management | 2 |
| 7- FCAPS: configuration, and accounting management | 2 |
| 8- FCAPS: performance, and security management | 2 |
| 9- Introduction to SNMP | 2 |
| 10- SNMP: SMI, defining objects | 2 |
| 11- SNMP: object identifiers, communities | 2 |
| 12- SNMP: operations, lexicographical order | 2 |
| 13- SNMP: MIB-II | 2 |
| 14-SNMPv2: SMIv2, operations | 2 |
| 15- Mid Examine | 2 |

# References

- Alexander Clemm, "Network Management Fundamentals," Cisco Press 2007, ISBN 1-58720-137-2
- William Stallings, "SNMP, SNMPv2, SNMPv3, and RMON 1 and RMON2". Addison-Wesley 1996 (3rd edition), ISBN 0-201-48534-6
- L. Peterson and B. Davie, "Computer Networks: A Systems Approach", 5th Edition, Morgan Kaufmann Publishers Inc., San Francisco, CA, 2012
- Text Book: Jianguo Ding, Advances in Network Management, Auerbach Publication, 2009, ISBN-10: 1420064525, ISBN-978-1420064520 (available on-line)