CENTRAL UNIVERSITY OF KERALA
DEPARTMENT OF COMPUTER SCIENCE
M.Sc. COMPUTER SCIENCE

VALUE ADDED COURSE					
COURSE CODE	**COURSE TITLE**	**CONTACT HRS/WEEK**			**CREDITS**
		LEC	**LAB**	**TUT**	
CSC5052	Computer Networks	2	2	1	Nil

Lec = Lecture, Tut = Tutorial, Lab = Practical

This is an audited/value added **skill based course** and the credits will not be added to marklist.

Course Objective:
The main objective of this course is to impart knowledge on the basic principles of computer networks.

By completing this course, students will obtain the following course/learning outcomes:
1. Knowledge gained:
    (i)   State of art functionalities of networks
2. Skill gained:
    (ii)   Deploying networking components
3. Competency gained:
    (iii)   Optimal usage of networks for communication.

Prerequisites: Nil

Grading:
Lab implementation	– 25%
Participatory based group Project	– 25%
Assignment/Quiz/presentation	– 25%
Individual project	- 25%

CSC5052 – Computer Networks

Module 1
Introduction to Computer Networks: Topologies, categories of networks, ISO & TCP/IP Reference Model.

Module 2
Transmission media, LAN, switching and other devices

Module 3
Details of all layers and their functionalities.   Case studies.

Text Books/References:
1. Andrew S. Tanenbaum, ―Computer Networks‖, PHI, 5th Edition, 2013
2. Behrouz A. Forouzan, ―Data communication and Networking‖, TataMcGrawHill,4thEdition,2006
3. TeerawatUssaruyakul, Ekram Hossain, Introduction to Network Simulator NS2, Springer, 2009
4. William Stallings, ―Data and ComputerCommunication‖,7th Edition, Pearson Education, 2007