



PROJECT DESCRIPTION

Network Management

[NETW1001-Spring2022]

Dr. Minar El-Aasser

Eng. Marwa Zamzam



TASK 1 (DEADLINE: 7/4/2022)

- Using the previously installed MIB viewer, explore the MIB tree's structure. Each group should decide upon 5 objects to manage.

Discuss why each of these objects is being managed with respect to the NMS FCAPS functionality.

N.B.: At least, one object should be managed with a SET() function, another with GET() function and the third one to be a parameter in a table and managed with GETNEXT() function. Another object to be managed by using TRAP() function triggered by an event at the agent side.

- Find the corresponding Object Identifier (OID) of the chosen objects to be managed in your system. For example, [1.3.6.1.2.1.1.5] represents the system name which is [iso.org.dod.internet.mgmt.mib-2.system.sysName].
- Register your team members (**Groups of 4 students**) using the below google link <https://forms.gle/cSFr3QbkDqAEtxjV9>




TASK 2 (DEADLINE: 7/5/2022)

- Download and install an open-source SNMP library for Python.
- Develop a script to test the basic operations of SNMP: GET(), SET() and GETNEXT() connecting a single local device.
- Connect the manager with the remote agents and run your script.
- Have a graphical display for the log of your managed objects.
- Presentation: Prepare a demo to display your NMS software managing the chosen objects for all agents in your group. (Evaluation of code)

N.B: - Make sure your Simple Network Management Protocol (SNMP) is enabled since the protocol may be disabled by default for security reasons. Therefore, correctly configure SNMP and set the community string on all computers of your team members.



TASK 3 (DEADLINE: 14/5/2022)

- Using any packet sniffer inspect and analyze exchanged PDU when using SNMP. 
- Project Submission method will be announced.

THANK YOU
