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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROG, BRANCH,	**B. E., E. C. E**
YEAR, SEMESTER, SECTION	**III / V, -**
SUBJECT	**17ECCC88- DATA COMMUNICATION NETWORKING LAB**
ACADEMIC YEAR	**2020-2021 (ODD SEMESTER)**

STANDARD OPERATING PROCEDURE

PERSONAL COMPUTER

Control Plan:

- Switch on the System properly
- Close all the application and shutdown the system

Experimental Procedures for L-SIM:

- Select the software and run.
- Run L- SIM Software from your assigned system.
- From L-SIM software open sample executable file & program is provided inside program files– LSIM – SampleApplication.zip.
- When user extracts this folder he will find cryptography folder inside which cryptography.cpp & cryptography.exe files are provided.
- If user runs the cryptography.exe file screen with browse option for selection of file to be encrypted and enter key for encryption option will get open for user to select the file and enter encryption key.
- Click on Encrypt button a message with Encryption completed will popup. Encrypted file will be stored at the same location from where file for encryption is selected.
- Select file to be decrypted and enter decryption key**.**
- When user clicks on Decrypt button a message with Decryption completed will popup. Decrypted file will be stored at the same location from where file for decryption is selected.
- To verify open original file and decrypted file both will be same.

HOD/ ECE

Experimental Procedures for N-SIM:

- Select the software and run.
- Run N- SIM Software from your assigned system.
- To implement the algorithm click on algorithms under menu and click on link state routing.
- Add the number of routers, select one by one, maximum 8 routers can be added; all the added routers will appear in the window.
- Click configure button to define the links between pair of routers and define its cost in kilometers.
- Once all the possible pairs have been defined click save button to save the configuration.
- Depending on the configuration all the possible links are implemented and drawn.
- Edit the configuration at any time by clicking on the value of the router number or cost.
- To simulate and find out shortest path select the source and destination routers.
- Click on simulate button to start the algorithm, this will calculate the shortest path and will be shown on the screen.
- Click on the result button to see the parameters for shortest path.

HOD/ ECE