Department of Computer Science and Engineering, CBIT, Hyderabad-75

**Lab work**

**Instructions to faculty:**

1. Prepare the schedule / lesson plan
2. Make the lab manual available in the lab
3. Instruct the students to attend the lab classes in time along with observation book
4. See that the observation book contain aim of the experiment, description, Procedure/Algorithm/Flowchart and sample input & expected output
5. Ask the students to conduct/implement the experiments, test the results, analyze
6. Ask the students to tabulate the results, if applicable
7. Ask them to write the inference / conclusion of the experiment
8. Check the report of the previous experiment
9. Insist the students to bring at least one given in suggested reading / references

**Instructions to the students:**

1. Students are instructed to attend the lab in time with observation book
2. Observation book should contain the name of the experiment according to the given schedule, Aim, Description of the experiment, Procedure/Algorithm/Flowchart/any Design diagram, required constructs / system of function calls / apparatus to carry out the experiment, sample input and out put
3. Should conduct the experiment, analyze/ evaluate the results and draw the conclusions/ inference from the results
4. Should submit record for the previous experiment

**List of Experiments and Continuous Evaluation**

**A**: Attendance **OE**: Observation & Experiment **R**: Record T: Total marks

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Name of the experiment | Pg. no. | Marks | | | | | Remarks | | Date of exp. | | Signature with date |
| A (2) | OE (5) | R (3) | T (10) |  | |  | |  | |
| 1 | Introduction to network utilities |  |  |  |  |  |  | |  | |  | |
| 2 | Introduction to socket system call |  |  |  |  |  |  | |  | |  | |
| 3 | Programs using TCP sockets |  |  |  |  |  |  | |  | |  | |
| 4 | Programs using UDP |  |  |  |  |  |  | |  | |  | |
| 5 | Implementation of ARP |  |  |  |  |  |  | |  | |  | |
| 6 | Implementation and performance evaluation of routing Protocols |  |  |  |  |  |  | |  | |  | |
| 7 | Programs using Raw Sockets like packet capturing and filtering) |  |  |  |  |  |  | |  | |  | |
| 8 | Programs using RPC |  |  |  |  |  |  | |  | |  | |
| 9 | Implementation of RSA |  |  |  |  |  |  | |  | |  | |
| 10 | Simulation of Sliding Window Protocol |  |  |  |  |  |  | |  | |  | |
| 11 | Simulation of FTP |  |  |  |  |  |  | |  | |  | |
| 12 | Simulation of ping |  |  |  |  |  |  | |  | |  | |
| 13 | Study of TCP and UDP performance |  |  |  |  |  |  | |  | |  | |

Faculty member PAC Member HOD