**Subjects included in the program, which are not taught by the instructor in the audience, but which are to be studied freely by the students:**

1. Protection and security. System Protection.

2. System Security. System and Network Threats. Cryptography as a Security Tool.

Firewalling to Protect Systems and Networks.

3. Distributed Operating Systems.

4. Distributed File Systems.

5. Distributed Synchronization. Deadlock Handling. Election Algorithms

6. SPECIAL PURPOSE SYSTEMS. Real-Time Systems. Real-Time CPU Scheduling

7. Multimedia Systems. Requirements of Multimedia Kernels.

8. The Linux System. Design Principles. Memory Management. Interprocess Communication.

9. UNIX Operating Systems.

10. Windows Operating Systems.