**Assignment**

Arrange yourselves in groups of at most 3 students.

Prepare a report of at most 4 pages. Develop competences and critical thinking on the following nine topics. Get acquainted with recent works being developed in the area. Your report should include all nine sections and sample case works that exploited the Grid technology. Submit your work by Turnitin account.

Each group will have 15 to 20 minutes to present a summary of the selected topic along with criticisms (PowerPoint, use case or similar).

1st Submission (the presentation) will be the next lecture hours on 11th April 2023. And final submission (the report) is April 18, 2023.

Grid Technology.

1. Grid Workflow languages and systems (suggestions: Triana, Taverna, Workflow Management System and Monitor for Grid systems (GWFE))
2. Desktop Grids and Volunteer Computing (suggestions: BOINC and OurGrid)
3. Grid simulators (SimGrid and GridSim)
4. Middleware for Grids (suggestions: Unicore and NorduGrid,, WSRF-Lite)
5. Grid-aware operating systems (XtreemOS, Vega GOS, MOSIX)
6. Monitoring and Accounting tools (Ganglia, Nagios, NWS, DGAS, Real Time Monitor)
7. Data Management and Meta-Scheduling (GridWay)
8. Portals and Friendly interfaces for job submission and control (Genius, UCLA Grid portal, GridSphere, PGrade)
9. Security in Grids (SLCS, Shibbolet)