Presentation and Project Topics

- Presentations in teams of 2
- 30 minute slots (25 min. presentations + 5 min. questions)
- Attendance list will be maintained

- **Topic selection:** on a first-come, first-served basis
- Your presentations should be in English but you can speak either Greek or English.
- **Suggested Latex and Word templates** will be available
- Typical reports should be **20-30 pages** (using the suggested templates)

**Dates:**
- Presentations start Wednesday April 18
- Declaration of topics and teams by Sunday 1st April
  - declare your teams and select the topic on the doodle poll that will be sent to the mailing list.
  - Schedule of presentations will be announced by 3rd April
- reports due: Friday 1st June
Presentation and Project Topics

1. Business Processes
   a. Business Process Modelling and Analysis
   c. Business Process Discovery
   d. Business Process Composition
   e. Business Process Adaptation
   f. Business process optimization - Six Sigma methodology
   g. Blockchains for Business Process Management
   h. Business Process Management and Internet of Things (IoT)

2. Workflows
   a. State charts and UML
   b. Logic-based formalisms (situation calculus, event calculus)
   c. Workflow Patterns
   d. Distributed Architectures for Workflow Execution
Presentation and Project Topics

3. Cloud Computing
   a. Business Process as a Service (BPaaS)
   b. SaaS vs Web Services
   c. Security of Cloud Services
   d. Discovery & Composition of Cloud Services
   e. Workflow Management in Cloud Computing
   f. Blockchains in Cloud Computing
Presentation and Project Topics

4. Web services
   a. Web Services Modeling Languages
   b. Web Service Evolution
   c. Web Service Discovery
   d. Web Service Composition
      i. Ontology-based Composition
      ii. Formal Service Composition (e.g., AI- or logic-based)
      iii. QoS-aware Service Composition
   e. Web Service Choreography and Orchestration
   f. Web Service Brokering
   g. Web Service Execution
   h. Web Service Monitoring and Adaptation
      i. Web Service Cross-layer monitoring and adaptation
      ii. Service QoS Prediction
4. **Web services**
   i. QoS-aware Service Management
   j. Web Service Security and Privacy
   k. Service Mashups
   l. Analysis, Simulation and Verification of Web Services
   n. Modeling Quality of Service
   o. Mobile Web Services
   p. REST vs SOAP Web services
   q. Web Service Design Frameworks & Tools