INSTITUTION	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS					
SCHOOL	SCHOOL OF SCIENCE					
DEPARTMENT	INFORMATICS AND TELECOMMUNICATIONS					
COURSE LEVEL	GRADUATE					
COURSE TITLE	**Text Understanding and Production Systems**					
COURSE CODE	**C19**		**Semester**	**3**	**ECTS**	6
TEACHING HOURS per week	**THEORY**	**1.5**	**SEMINAR.**	0	**LABORATORY**	**1.5**
URL	https://eclass.uoa.gr/courses/DI532/					

COURSE CONTENT
Text Generation/Production: Present well-known / state-of-the-art techniques, algorithms, and models for generating text. Through specific use-cases it will be shown how to build systems that for example summarize texts, autocomplete sentences, compress sentences or write articles about specific topics. **Text Understanding:** Present well-known / state-of-the-art techniques, representations, algorithms, and models that are used to analyze and understand text. Some specific use-cases will be presented; e.g. news categorization, machine reading comprehension, question answering etc.

STUDENT LEARNING OBJECTIVES
- Understand the main obstacles for building a text generation or a text understanding system - Learn the most common techniques, architectures that are used for building a text generation or a text understanding system - Learn how implement such systems

TEACHING AND LEARNING METHODS - ASSESSMENT	
TEACHING METHOD	In Class (Face to Face) or Remote - online
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support for the learning process through the electronic platform e-class, namely: Provision of material - posting presentations and supporting material, Discussions, Announcements, Assignment-Submission of assignments. Communication via email.
TEACHING ORGANIZATION *Describe in detail the way and methods of teaching:* *Enhanced Lectures,* *Online Lectures,* *Seminars,* *Tutorial,* *Laboratory,*	**Activity** / ***Student Workload*** *(hours)* Lectures: 19.5 Laboratory: 19.5 Teamwork in a case study: 31

Laboratory Exercise,
Study & analysis of literature,
Practice (Positioning),
Interactive teaching,
Developing a project,
Individual / group work
Telework (reference to tools) etc.

Details of the student's study hours for each learning activity and hours of non-guided study are shown to ensure that the total workload at the semester corresponds to the ECTS

Independent Study	80
Total Course (25 hours of workload per unit of credit)	***150***

ASSESSMENT OF STUDENTS

Description of the assessment process

Assessment Methods, Formative or Concluding, Multiple Choice Test, Quick Response Questions, Test Development Questions, Problem Solving, Written Work, Report / Report, Oral Examination, Public Presentation, Laboratory Work, Other / Other

Fully defined evaluation criteria are mentioned and if and where they are accessible to students.

Describe explicitly methods, evaluation tools and provided feedback.
The table below is supplemented accordingly.

Assessment methods	***Number***	***Percentage***
Written examination	1	30%
Final work	1	70%

LITERATURE AND STUDY MATERIALS / READING LIST

- Speech and Language Processing, Dan Jurafsky and James H. Martin: https://web.stanford.edu/~jurafsky/slp3/
- Reiter, E., & Dale, R. (2000). *Building Natural Language Generation Systems* (Studies in Natural Language Processing). Cambridge: Cambridge University Press. doi:10.1017/CBO9780511519857
- Allen, J. (1995). *Natural language understanding* (2nd ed.). San Francisco: The Benjamin/Cummings Publishing Company.
- Publicly available research papers and articles