



**Subjects for Senior Project in the frame of AMET400**

**Last Update: 02/2012**

**General titles:**

1. Construction of racing car for “formula student contents”
2. Experimental test of coated specimens under extreme dynamic or static loading
3. Construction of steel dies for casting of various type of silicon or plastic (Medicine applications)
4. Micromachining with CNC machine and performance of cutting tools
5. Construction of rapid prototyping moulds using the 3D printer
6. Tension and compression test of steel parts using various epoxy resins as bonding material
7. Experimental tests and simulations on coated materials (Bending loading)
8. Investigation of the performance of coated cutting inserts on various material
9. Applications of rapid prototyping in developing new products
10. Mechanical and other engineering products manufacture in Cyprus, current status – problems - opportunities – future trends

**AMET 400: Senior Project, ECTS: 8**

This course gives students the opportunity to apply his knowledge of engineering and design to a real engineering situation. The student will be responsible for a specific task from start to end. Projects may be theoretical, experimental or design projects. In case of group projects each student is assigned specific tasks. Each student has a project advisor with whom he meets at least once a week to discuss progress and future work. Each student is responsible for preparing and presenting a final report and answer questions orally. The report will include detailed mathematical background of the problem, drawings, specifications, calculations and cost assessment where applicable

**Senior Project Evaluation Criteria**

	<b>Criteria</b>	<b>Description</b>	<b>Excellent</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
1	Effort	Time spent on project			
2	Main body of the project	The main idea is supported by extensive, accurate and appropriate details			
3	Conclusion and results	Are the final results and conclusions well defined and analytically explained?			
4	Writing skills	Is the writing text adequate? English language, text format, pictures, drawing, diagrams			
5	Enthusiastic	The student was interested about his work during the whole period			
6	Learning outcome	The scientific and professional skill of the student was increased during the elaboration of the project?			
7	Oral presentation	At what degree the candidate convinced the audience for his\her work's scientific value? Organization, Main points, Main points supported.			
9	Overall quality	What is the overall quality of the project?			