

TUTORED RESEARCH & DEVELOPMENT PROJECT I

1. SYLLABUS INFORMATION

1.1. Course title

Tutored Research & Development Project I

1.2. University

Universidad Autónoma de Madrid

1.3. Semester

First year, second semester

2. COURSE DETAILS

2.1. Course nature

Compulsory

2.2. ECTS Credit allotment

4

2.3. Recommendations

None

2.4. Faculty data

Dr. Marcos Escudero Viñolo (Coordinator)

Departamento de Tecnología Electrónica y de las Comunicaciones

Escuela Politécnica Superior

Office - C-211 C Building – 2nd Floor

Phone: +34 914977557

Email: marcos.escudero@uam.es

Web: <http://www.eps.uam.es/esp/personal/ficha2.php?empid=xxx>

3. COMPETENCES AND LEARNING OUTCOMES

3.1. Course objectives

TRDP1 at UAM should be focused on state of the art review and on training in the required tools, collecting/generating the adequate data - sets, and start proposing possible contributions; and TRDP2 at UBx should be focused on implementation, testing and evaluation, and maybe publication of the achieved results. Students are expected to deliver a detailed report and make a presentation at the end of each course (TRDP1 and TRDP2). The TRDP might be the introduction to a Master Thesis.

3.2. Course contents

Projects are defined by the teaching staff. In order to assign the students a Project by the end of the first semester, a procedure/schedule is required for the coordinated definition of such projects.

Overall, the process begins with topic proposals from interested IPCV professors, which will each act as Proponent of the proposal. Proposals are then distributed to all the IPCV teaching staff, which should indicate in which proposals is interested to act as Advisor. Proposals supported by advisors are then more precisely defined (objectives, references, tasks, calendar, etc.) by the proponents. The resulting projects are finally presented to the students and assigned to them according to their preferences.

The role of the Proponent: is the responsible of the TRDP Project. The Proponent should define the Project and guide its development, together with the Advisors, during the TRDP1 and TRDP2 courses. Guidance will be remote while the Proponent is not in the University where the students are. The Proponent will also be responsible for around 40% of the TRDP evaluation.

The role of the local Advisor: to organize regular meetings between the team of students and the team of professors to guide the Project development. Additionally, the advisors might be involved in the definition of the Project establishing research collaboration with the Proponent.

Topic proposals: This phase should be finished by the end of September. Interested IPCV professors will propose topics of their interest. Topics should be descriptive project titles (max 250 characters), descriptive enough to allow a colleague deciding or not to act as advisor. IPCV professors might propose up to three topics. The one proposing a topic will act as Proponent of the associated Project. Students might also propose a topic, which shouldn't be related to their previous experience. In this case, the TRDP coordinator would search for a Proponent.

Topics selection: This phase should be finished by mid-October. The list of topic proposals will be distributed to all the IPCV teaching staff, that should indicate, via a priority list, in which proposals is interested to act as Advisor. All IPCV professors should support at least one proposal from each of the other two universities. A list of topics supported by a team of professors (the Proponent and two advisors from the other universities) will be formed, attending to the prioritized selection.

Projects definition: This phase should be finished by the end of October. Each Proponent should develop the proposed supported topic to describe the TRDP Project: objectives, initial references, tasks, calendar, etc., both for the first phase (TRDP1) and for the second phase (TRDP2). Project definition should, as much as possible, be jointly agreed by the team of professors.

Projects assignment: This phase should be finished by the end of November. The list of available TRDP projects will be presented to the IPCV students by the TRDP Coordinator, who will also coordinate the arrangement of students in couples and the final project assignments, considering student preferences and skills.

3.3. Course bibliography

To be defined by proponent and supervisors according to the project.

4. TEACHING-AND-LEARNING METHODOLOGIES AND STUDENT WORKLOAD

4.1. Contact hours

To be agreed with team's members.
Weekly meetings with the proponent/supervisors.
Monthly online presentations with the rest of the team.

4.2. List of training activities

To be defined by the team.

5. EVALUATION PROCEDURES AND WEIGHT OF COMPONENTS IN THE FINAL GRADE

5.1. Regular assessment

As the TRDP is developed during the TRDP1 and TRDP2 courses, both courses need to be independently evaluated; hence, students are expected to generate outcomes by the end of each course. The work and achievements carried out during each course should be described in a report (TRDP1 Report and TRDP2 Report). The report will follow a scientific paper template which will be provided by the local TRDP Coordinator. Additionally, by the end of each course, a TRDP Workshop will be held and oral presentations of the report should be done by all the student teams.

5.2. List of evaluation activities

Evaluatory activity	%
Evaluation of the student's progress	40
Oral presentation	30
Final report	30