The purpose of this work is to develop an educational website that serves as a support for teaching subjects of the degree in Chemical Engineering related to waste treatment. It aims to create a dynamic and open web environment which contains material prepared or collected by teachers, as well as activities for promoting independent learning and reflection by students. The material should be useful for both face-to-face instruction and computer-mediated instruction (blended learning) within this subject. Links to videos of treatment plants, research groups, specific journals and so on will be proposed.

RESULTS

The general format of the website is shown in Figure 1, where there are a number of items in the left margin and at the top that give direct access to the different sections of the site: materials, activities, research, links...

![Figure 1. Snapshot of the web homepage.](image1)

MATERIALS

Students and public in general will have a series of presentations available, which have been prepared using Macromedia FlashPaper software. These presentations deal with all the necessary theoretical concepts. Figure 2 shows the cover slides of some of the presentations.

![Figure 2. Cover slides of the presentations.](image2)

LINKS

Links to various websites are introduced. An example is the "Prometeo" project website "Waste treatments: ways of formation of dioxins, brominated dioxins, mechanisms and development of complex kinetic models" ([http://prometeo.ua.es/personal](http://prometeo.ua.es/personal)).

DISCUSSION FORUM

This is a discussion forum restricted to students, where a debate called "INCINERATION VERSUS LANDFILL" is proposed.

![Discussion forum](image3)

RESEARCH

The link to the site of the research group "Waste, Pyrolysis and Combustion" in the institutional repository of the University of Alicante is included.

CONCLUSIONS

The material developed can be used for the following subjects corresponding to the degree in Chemical Engineering: "Environmental Engineering" (4th year) and the optional subjects "Management and treatment of municipal waste", "Clean technology and renewable resources" and "Management and treatment of hazardous and toxic wastes".

On the other hand, being an open webpage this can also be of interest for students of different scientific and technical degrees which could include this matter, academic community of several disciplines or general public, so they can discover the concepts and technologies related to thermal treatment of waste up to the desired level.

REFERENCES