

**DEPARTMENT OF PHYSIC'S, LABORATORY OF DOSAGE, ANALYSIS
AND CHARACTERIZATION IN HIGH RESOLUTION FERHAT ABBAS
UNIVERSITY, SETIF, 19000, ALGERIA**

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Brief presentation

Our laboratory exists since few years, and it consists of groups of research in optoelectronic materials and renewable energy. It is equipped with devices for synthesis, realisation and characterization, specific to the energizing materials (the simple and mixed oxides).

General description

As it has been underlined before, our laboratory has for vocation, since 2001 researches in the field of renewable energy and related domains, and we wish to acquire news techniques of characterization.

Structure of the laboratory

The structure of the laboratory is defined as follows:

N° Group	Number of researchers	Thematic	Techniques Means	Objective
01	03	Solar cell	– Dip-coating – CVD	Conception of photoanode for dye sensitised solar cell
03	05	Optoelectronic materials	– Résistivimetre	//
04	04	Polymer electrolyte	– Volta lab – Impedencemetre	//

Activities, actions, results, projects

For the different actions, results and projects, we achieved the works of research in progress, as follows:

Period	Results	Project
2001-2004	– Elaboration thin films of SnO ₂	Conception of Dye sensitized solar cell (DSSC)
2004-2007	– Elaboration thin films of TiO ₂ – Elaboration conductor glass FTO – Characterization of new dyes (organic and inorganic)	Conception of DSSC

Collaborations, national and international, present and calls for collaborations

Our laboratory collaborates with national and international universities as:

- University of Tlemcen (Algeria);
- University of Béjaia (Algeria);
- Unit of development of silicon technology (Algeria);
- Polytechnique Federal Institut of Lausanne (Suisse);
- Université Claude Bernard de Lyon (France).

