Problem-Based-Learning (PBL) Proposal for the organization of the working-sessions

Sessions and		
Steps		Tasks
Session A	0 10 min	 Introduction Distribution of the subjects Short presentation of the agenda, the contents and the objectives of the PBL sessions devoted to solve a problem in Nonlinear Optics.
	1 10 min	Review the document: • Read the different contents of the document
	2 10 min	 Understand the issues and clarify the problem: Which are the issues addressed within the problem? What are the problem liverable(s)?
	3 20 min	Possible avenues/ways to address the problem (collective contribution): • List the relevant questions/issues • List the simplifications, assumptions that can help in carrying out a first analysis of the problem • Among the group: review the state of knowledge and the knowledge to be acquired • List the possible avenues and outcomes to address the problem
	4 10 min	 Identify the learning outcomes: Identify the learning issues raised by the problem Determine the question(s) you should be able to address and the knowledge you should have been acquired at the end List some acquired skills
	5 20 min	Start to address the problem: Discuss about the methodology you will use to address the problem Collect the resources, data, required to address the problem Calculate order of magnitudes Derive some solutions
	6 10 min	To-do list for the next session: • Identify the information/knowledge contents required to confirm or unvalidate the possible avenues listed in step 3 • List the tasks and outcomes to be prepared by each group member for the next session
Session B Ind. work	7 1 to 2 hours	Individual work: • Each group member works (individually) on his/her tasks and prepares the outcomes/materials to be shared with the group during the Session C
Session C	8 1 to 2 hours	Collect and validate the learning outcomes, solutions and deliverables: • Share and pool the learning outcomes, resources acquired/prepared individually during the session B • Review/examine the proposed responses or individual inputs with the questions listed during the session A • Address the questions raised by the problem with justified solutions/answers • Prepare the deliverable(s)