**Interview Protocol - Individual Interviews – ED1 (Fall 2018)**

# Plan is to do 50-60 minute individual interview sessions with 2-3 problems per session.

**Materials and Equipment:**

* Consent forms
* Learning material – (problems in large font and each problem in separate page)
* White boards, Marker pens, Camera with voice recorder

**Interview:**

*Student comes in* – Hello I’m Nandana, I welcome to this problem solving session.

I’ll use a voice recorder to record this session and cameras to record how you work on the problems, but will keep your privacy.

**Turn on the camera and voice recorder.**

**Introduction:**

1. Brief introduction -- I’m a graduate student from the physics education research group. Today you will solve some physics problems related to what you learnt in the EM class.

The goal of this project is to see how you understand the concepts related to problems and what mechanisms you use to solve the problem but not to get a final answer or a number.

 I encourage you to work on the white board and write down everything you think is important.

1. Sign consent form – Before we get started, read this document and feel free to ask any questions, then I need you to sign the consent form. The purpose of this form is to make sure we’ll protect your privacy and will use the data just for research purpose. In addition to that we’ll not publish your information anywhere and nothing will affect on your results in this course or in future.

If you need, you can have a copy of this form.

**Problem Solving:**

* I’ll give you one problem each time.
* Please use the black marker and as you solve this problem, you will discuss the problem on this white board.

**Note:** \* If students really can not proceed, will explain the problem/ will give them a hint.

 “What do you need to know to move forward”

 \* After they have done each problem,

 “Could you please run me through your solution” Plus follow up questions accordingly.

 \* If the time is left, but more problems left,

 if the student is too sow, will just ask to explain how they will work in it.

**At the end:**

 Let them feel happy: “I’m really impressed about the work you done. Thank you for your participation”