





### Qomrah Project

Hanin Aqrabawi
LAMBDA Physics Group



### **Stages**

- 1. Portable Camera Obscura.
- Transforming a Room into Camera Obscura.
- Qomrah of Ibn Al-Haytham on the Top of Physics Building.

## Portable Camera Obscura



With lens

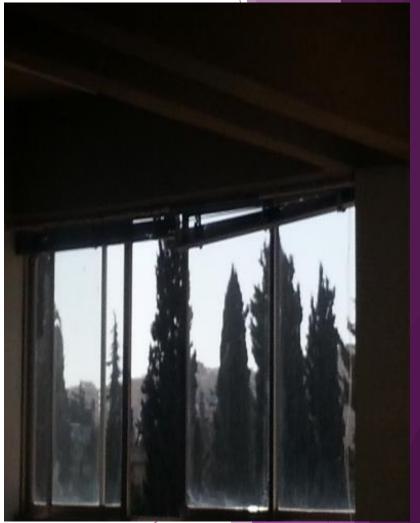


Without lens

### Without lens

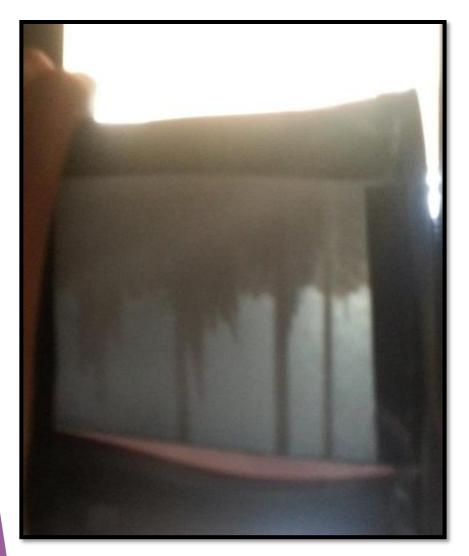


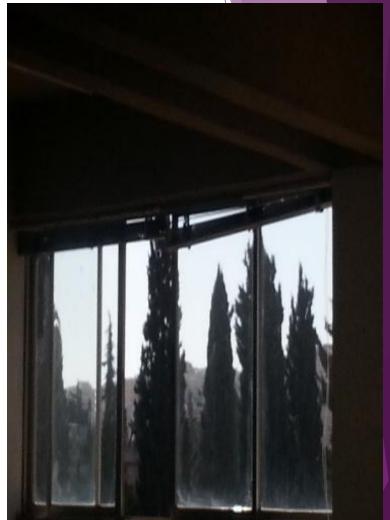




### With lens











## Transforming a Room into Camera Obscura

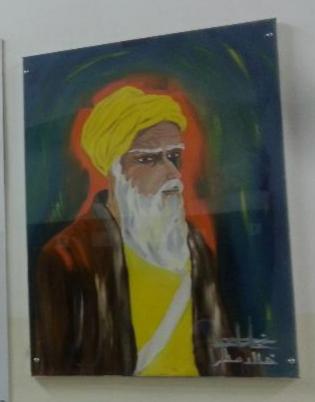


#### Al-Hasan Ibn al-Haytham "Father Of Optics"

- \* An Arab physicist, mathematician, astronomer, and
- \* UNESCO has declared 2015 the International Year of Light colebrating Ibn Al-Haytham's achievements in
- \* Most famous contributions: Kitab al-Manazir (Book of Optics), Visual Perception, Camera Obscura "the dark room", Scientific Method.

















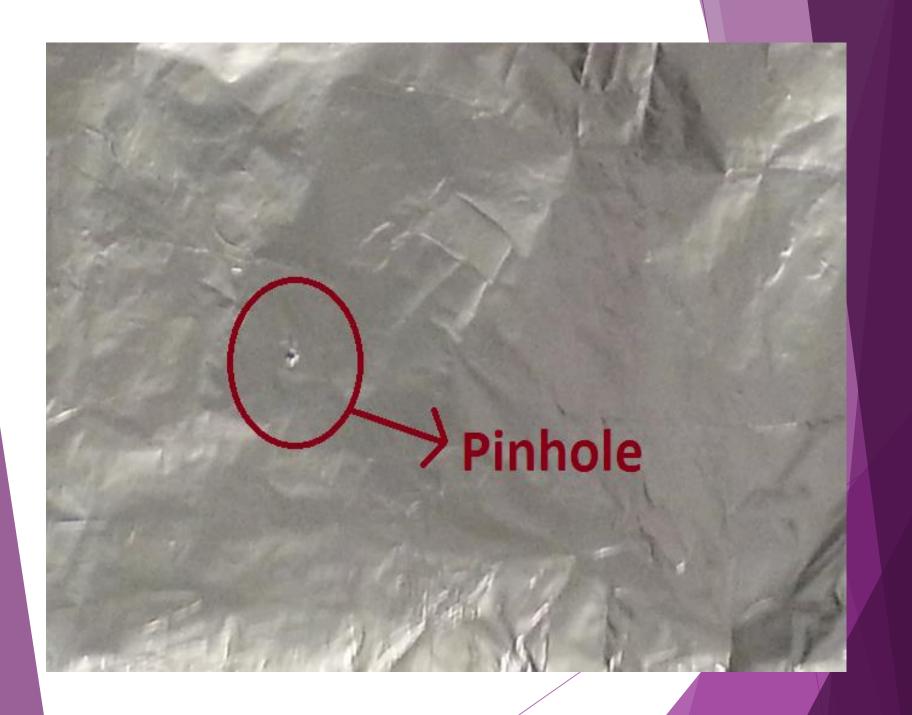


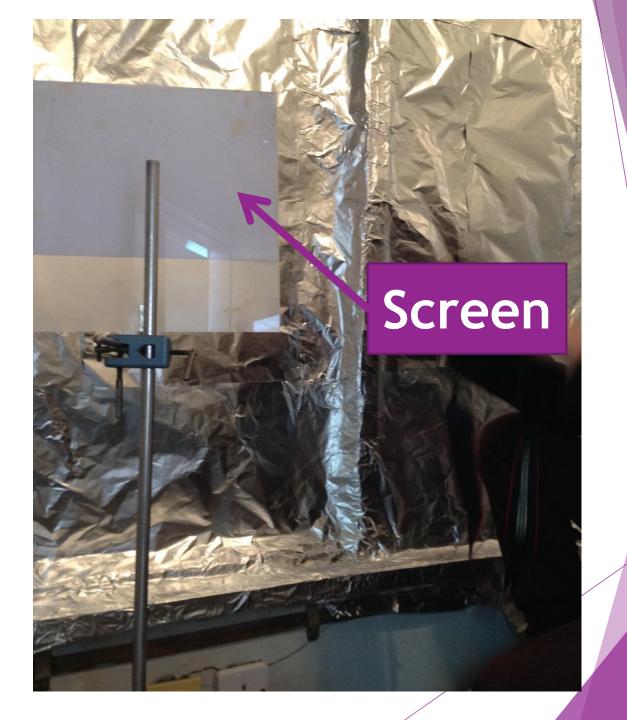


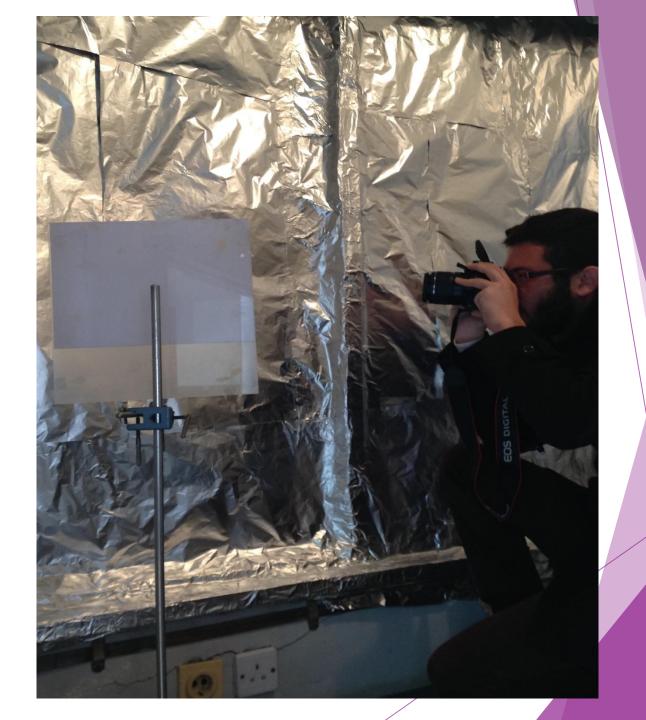












### Problems & Difficulties in Location of this Room

- Located at the corner of the lab.
- Might be taken back for experiments.
- The only room in the lab that contains a window.
- The view from this window is blocked by the Physics Building.
- The image can be hardly collected for a short time before sunset.

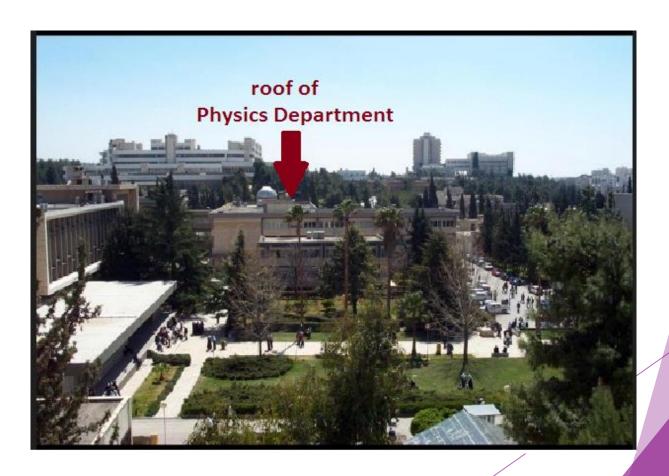
### Our Ultimate Goal

# Qomrah of Ibn Al-Haytham on Top of Physics Building

## Stages of Building Qomrah on the Top of Physics Department



## 1. Approval of Buildings Department



## Tentative Design& Proposal

الجامعة الأردنية عمادة البحث العلمي مجلس البحث العلمي نموذج رقم 1- د - ف



Date: ..... No. of manuscript Title of published chapter Reviewing the manuscript of published chapter Elements of reviewing 20% 40% 60% 80% 100% How much did the published chapter add to academic knowledge To what extent did the author succeed in presenting the published chapter in a full and clear way The need for the information that the published chapter presents Academic/ Scientific/ Language mistakes Will the published chapter attract a wide base of interested people in its field The extent of using Graphics and illustrations (if available) Is the nublished chanter presenting the mean

## 3. Research Project Fund for Undergraduate Students (??)



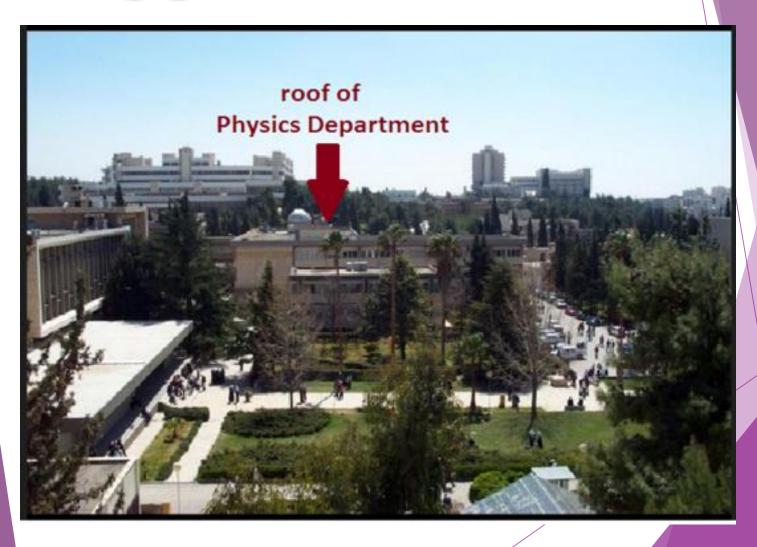
WELCOME to the Deanship of Academic Research (DAR)



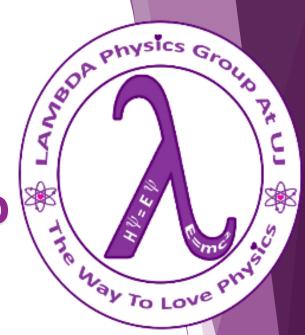
The University of Jordan, since realized the importance of resear development of nations. As part mission of pursuing distinction as establishing a cultural passion for and in supporting, promoting its 1 Jordan has entrusted special c research and founded in the year Academic Research (DAR). The d for organizing, supervising, promacademic research as the means for

### To Start Working

### Suggested Location



## Team Work LAMBDA Physics Group



The door is open for any hardworking dedicated physicist or physics lover to be actively involved in Qomrah project.

### Support of...

- Department of Physics
- Deanship of Faculty of Science
- Deanship of Scientific Research
- Private Sector

### **Thank You**