

# MIT Education Initiative With Jordanian Collaboration



***“Blended Learning Open Source Science or  
Math Studies”***



Learning International Networks Consortium



## The seed of BLOSSOMS?

The seed of this project was thrown in a very fertile soil during [MIT LINC 2007](#) with group of educators from the: U.S, Jordan, Pakistan, UK, Lebanon, Mexico....etc.

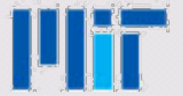


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LINC 2007 opening



An Initiative of MIT LINC



**A project sponsored by MIT starting from educators from USA, Jordan and Pakistan to develop:**

- A large, free repository of blended-learning video modules, each presentable in one class session.
- Deeper and richer skills in students, enhancing critical-thinking skills, and encouraging science, math and engineering careers.



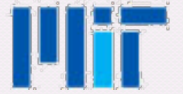
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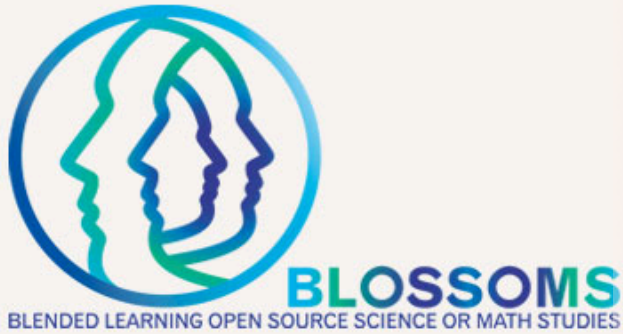


# BLOSSOMS Goals

- Offer a different and exciting perspective on, or mind-expanding approach to a topic.
- Teach abstract concepts through the joining of observation, experience and discussion.
- Stimulate the development of critical, creative and lateral or associative thinking skills.
- Generate interest and spark imaginations regarding a subject perhaps previously thought to be dry and abstract.
- Attract a larger fraction of students - young men and women - to math and sciences, leading to excellent careers in the increasingly dominating 'knowledge economy' of the world



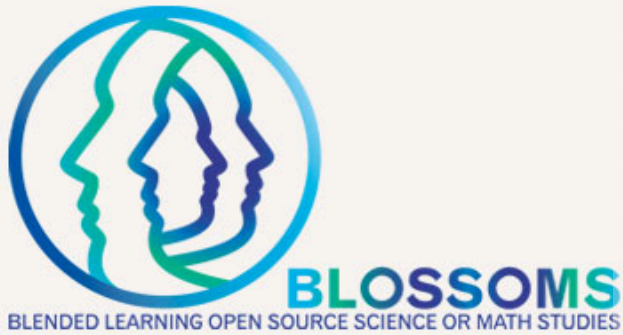
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# **Blended Learning BLOSSOMS way**

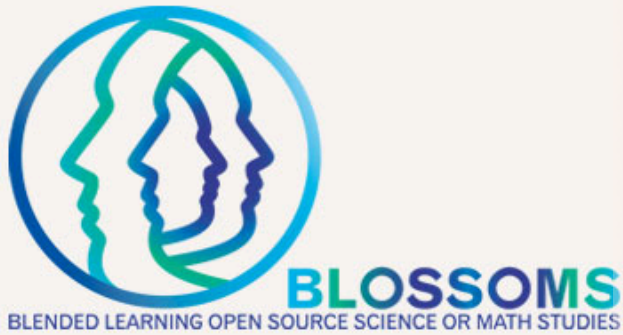
- Blossoms is based on the concept of supporting the in class teacher with a module guided by Blossoms Pedagogy consisting of 5 to 6 video segments that can be utilized in one or two class sessions.
- The Blossoms video modules are intended to enhance the teaching of certain lessons by the lively video presence of a gifted “guest lecturer”.





## **BLOSSOMS Module Details**

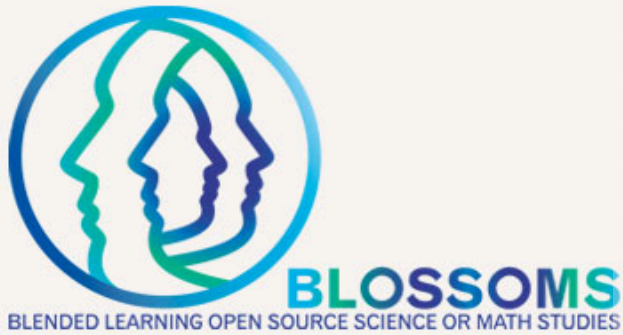
**The key engagement of the module is that it starts with an attractive question or puzzle of a real life where the students are engaged and motivated, to find the answer.**



## BLOSSOMS Module Details

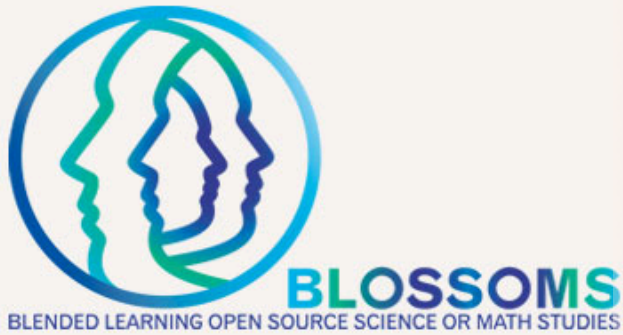
The module utilizes simple tools that the students and teacher can apply regardless of the culture and the location, yet very engaging.





## **BLOSSOMS Module Details**

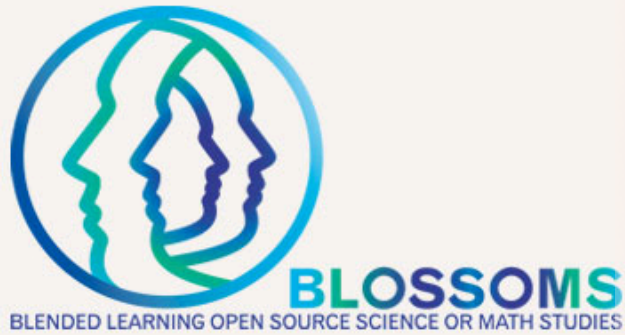
**Each segment ends with a question that needs some hands on or active learning exercise to be done by the students and guided by the in class teacher.**



# **BLOSSOMS Module Details**

**The in class activities can be either practical experiment or group discussion, or predictions that help students to achieve the specified learning objective.**





# **BLOSSOMS Module Teacher's Guide**

**Modules are accompanied by a teacher's guide including background needed, learning activities, suggested future activities for follow-on work, and providing references.**

# Jordanian Experience

## Awareness

JU & JUST, Nov.2008



MoE Mar. 2009

## Discussion & Approval



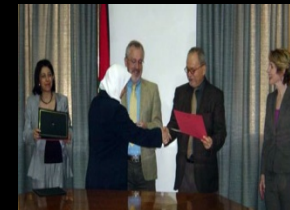
Dec.2008-Apr.2009

## Video Taping



May- June 2009

## Appreciation Event



Mar. 2010

## Pilot

implementation



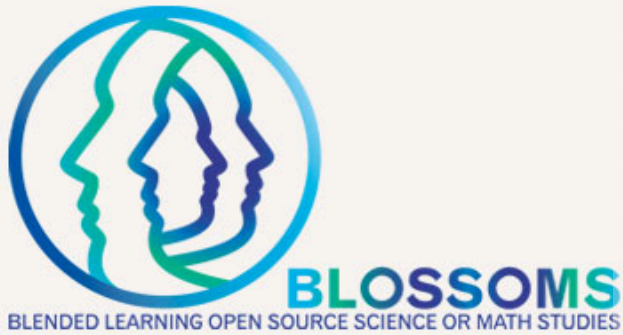
April 2010



# Modules Produced in Jordan

|                       |           |
|-----------------------|-----------|
| • <b>Biology</b>      | <b>5</b>  |
| • <b>Chemistry</b>    | <b>3</b>  |
| • <b>Math</b>         | <b>3</b>  |
| • <b>Physics</b>      | <b>6</b>  |
| • <b><u>Total</u></b> | <b>17</b> |





# Feedback

**BLOSSOMS** had a great impact and created a lot of excitement within the different stake holder producers, in class teachers and students.



# Feedbacks

## In-Class Teacher

- Question were motivational.
- Higher student involvement.
- Reached a wider range of students.
- New aspects of teaching the topic.



- Mind exploration conveying complex scientific concept in a simple attractive method related to real life.
- More Research for class enrichment models.
- Knowledge raising questions.
- Organizing the lesson into segments.
- Relating the concepts to daily observations.

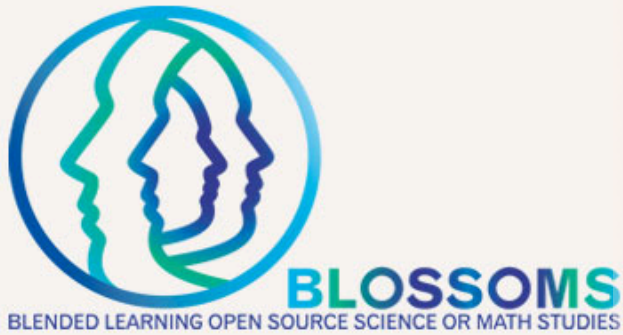
## Producers



## Students

- Enjoyable & Interesting.
- Recognized the daily life application.
- Raised curiosity to investigate further.
- Motivational & they would like to see more blossoms lessons.
- More involvement in class.





## Our Ambition !

**We need to have our seed grow into a tree with branches from new countries, and more Teachers who believe in new strategies and methods of teaching and giving the chance for better education for all.**

