ABOUT LUMINUS
https://wiki.nus.edu.sg/display/luminus/
WHAT IS LUMINUS?

■ New Learning Management System.
■ Built from ground up.
■ LumiNUS will replace IVLE in AY19/20.
■ New name - separate from IVLE, not just a different interface.
WHY THE CHANGE TO LUMINUS?

- To accommodate feedback regarding IVLE.
- To facilitate new pedagogical approaches in NUS.
  - Blended learning, flipped classroom.
  - Lifelong learning.
- To enable new and future functionality.
  - Future: Analytics
- To improve security and resilience.
<table>
<thead>
<tr>
<th></th>
<th>AY17/18 Semester I</th>
<th>AY18/19 Now</th>
<th>AY19/20 Aug 2019</th>
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<tbody>
<tr>
<td><strong>LumiNUS</strong></td>
<td>Alpha</td>
<td>Beta</td>
<td>Fully operational</td>
</tr>
<tr>
<td><strong>IVLE</strong></td>
<td>Fully operational</td>
<td>Fully operational</td>
<td>Staff-only</td>
</tr>
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</table>
WHY LUMINUS & IVLE CONCURRENTLY?

- LumiNUS and IVLE are not connected.
- Entirely new system, needs a bedding-in period.
- Allow for a gradually increasing the load on LumiNUS.
- Allow time for users to get used to LumiNUS rather than be forced away from IVLE immediately.
- Only for AY18/19.
IS CIT SURE ABOUT THIS?

- CIT acknowledges the poor performance of LumiNUS early this semester.
- Made strides in improving LumiNUS.
- Have considered extending LumiNUS beta period.
- But decision is to proceed as scheduled.
CAUSES AND SOLUTIONS

- Causes
  - Low throughput for existing High Availability (HA) cluster set up.
  - RabbitMQ processes took too long.
  - Unscalable cache.

- Solutions
  - Removed existing HA cluster as it conflicted with RabbitMQ.
  - Tweaked RabbitMQ settings.
  - Upgraded framework.
PREPARING TO MOVE

- We encourage you to evaluate your learning materials.
- However, an IVLE to LumiNUS migration tool is available.
  - Please read what can and cannot be migrated.
  - https://wiki.nus.edu.sg/x/iVKKDQ
- We urge you to start preparing your modules now.
- Please do not wait until just before semester begins.
PREPARING TO MOVE

- Ongoing: roadshows, webinars, newsletter
- Online consultation sessions in July.
- Office hours walk-in consultations at CIT in July.
- Training at CDTL: March, May, July.
It is always good to be prepared. For example, you should always back up your files:

- File sync service – files on multiple devices.
- Backup disk, on site.
- Online / cloud backup.

Likewise, you should think about how to make your module resilient.

- There are various ways to ensure your students have access to their learning materials.
BEST PRACTICE

- **Module:** Put module information in a PDF.
- **Files:** Store in nBox. Share a *password-protected public link* to students.
- **Communication:** You can email students in your module via IVLE YearBook.
- **Multimedia:** Upload to MediaWeb / Panopto via LumiNUS. Students can log in directly to MediaWeb / Panopto.
- Try not to give deadlines in Weeks 1 and 2.
Introduction to GEQ1000 Asking Questions

What is Q? Who needs it?

- All NUS undergraduates in modular faculties have to fulfill 20MCs from the General Education (GE) curriculum as part of their undergraduate study.
- The Q module on "Asking Questions" (GEQ1000) is the fifth module requirement in the NUS General Education Curriculum.
- Depending on your faculty curricular needs, GEQ1000 is pre-allocated to you either in your first or second year of study.

What is the "Asking Questions" module about?

Paper submission and MCQ assessment instructions

Assignment submission instructions
1. Paper submissions in PDF files
2. Complete assignment submission
3. Submit your assignment before the deadline
4. Attach the file to the assignment
5. Assignment submission instructions
You are required to follow the LaTeX template for GEQ1000 asking Questions.
Those who do not follow the template may not be assessed.
The template can be found in the LaTeX files and the spreadsheet on OAS.
**Philosophy (Humanities)**

Created by NUS CIT, last modified by on 10 Aug 2017

### Videos

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<th>Title</th>
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<th>Transcript</th>
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<td>Welcome</td>
<td>08m 06s</td>
<td>pdf</td>
</tr>
<tr>
<td>Phi 1-2</td>
<td>Definition and Origin 1</td>
<td>14m 35s</td>
<td>pdf</td>
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<td>Definition and Origin 2</td>
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<td>Phi 1-4</td>
<td>Three Senses of Question</td>
<td>09m 54s</td>
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<td>Two Confusions</td>
<td>07m 17s</td>
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<tr>
<td>Phi 1-6</td>
<td>Paradox of Design</td>
<td>14m 38s</td>
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<td>Phi 1-7</td>
<td>Disconfirmation</td>
<td>14m 50s</td>
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<tr>
<td>Phi 1-8</td>
<td>Welcome to NUS</td>
<td>09m 29s</td>
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<tr>
<td>Phi 2-1</td>
<td>Let's Play Cards</td>
<td>15m 52s</td>
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WHAT'S NEW & IMPROVED IN LUMINUS?

https://wiki.nus.edu.sg/display/luminus/what%27s+new
USER INTERFACE CHANGES

- Less cluttered.
- Consistent placement of menu and tools to avoid confusion.
- Improved user workflow:
  - Multiple selection.
  - Guided setup for tool creation.
  - Drag and drop to re-arrange items or upload files.
In the dashboard, modules are represented by tiles.

*Create Module* has its own tile.
Once you set up the module, you cannot change the Academic Career and Term. This is to enable future developments.
Implications:

1. If you set up the wrong Academic Career and Term, you need to create a new Module.

2. Modules cannot be reused.

For both, you will have to duplicate the module for the subsequent semester(s).

This is done via Create Module.
Module page layout is divided into 3 areas:

- Main tools on the left,
- Content in the middle, and
- Task-related actions on the right.

Only one view exists – there are no longer Edit or Preview modes. (More on this later.)
Within each tool, the common task is shown prominently. It appears at the top right.
Some items may have ellipsis button ••• on them. Mouseover or click for more.
Items not visible/closed to all students are indicated by a *not visible* icon.
MODULE INTERFACE

- Not visible icon states why an item is not visible/closed.
- Reasons items are not visible/closed to all students:
  - **Not yet open** – before open date
  - **Closed** – after close date
  - **Not published**

- Exception: insufficient permissions e.g. certain groups only
- **No student view or preview mode** – paradigm shift.
- Students cannot see/open items which have the not visible icon.
- Rather than toggling back and forth between Edit and Preview, immediately change settings of specific items.
- Prevents edit/preview mode confusion.
  If you have permission to edit, you will see the edit options.
Multiple items can be selected and then relevant actions will be shown.

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<td>1 Jun 2019 5:26 pm</td>
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<td>Lecture Transcripts</td>
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<td>Readings</td>
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<tr>
<td>Tutorial Sheets</td>
<td>1 Jan 2019 6:06 pm</td>
<td>1 Jun 2019 6:06 pm</td>
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</table>
You can drag & drop items that can be rearranged.

Learning Outcomes

This module introduces six modes of questioning from the perspective of computational thinking, design thinking, engineering, philosophy, science, and social sciences. While these are not the only important disciplinary modes of investigation, these six perspectives will introduce all undergraduate students to the distinctive modes of questioning across these disciplines, and provide an initial exposure to how scholars from these disciplines pursue specific lines of questioning of everyday issues.

GEQ1000 Asking Questions Module Introduction

Deadlines and General Flow

Deadlines
TOOLS

- Announcement
- Chat – TeamUp
- Conferencing – Zoom
- Consultation
- External Contents/Tools e.g. EdX
- Files – was Workbin
- Forum
- Gradebook
- Multimedia
- Poll
- Quiz – was Assessment
- SCORM
- Survey
- Web lectures
- Learning Flow – was Lesson Plan
TOOLS

- Announcement
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Tools: What are Removed/Missing?

- Removed
  - Guest (gst) accounts – to be handled by NUS IT.
  - Participation
  - Project (more on this later)
  - Anonymous feedback (for now)

- Missing at the moment
  - Evaluation
  - IMMS import from LumiNUS – pending NUS IT action.
- Set up project groups in Class Groups.
- Files, Forums can be assigned to project groups.
- Currently redeveloping Evaluation.
Tools can be hidden if need be.

- Useful if students are required to access content from just one place, such as Learning Flow.
- Students also don’t have to click every tool to check if there is content.
CONTENT BANKS

- Removal of:
  - **Guest Bank**
    - now under Guest & Group Management.
  - **Multimedia Bank**
    - you can search and re-use any previously uploaded media.
    - please title your media descriptively.
- **Question Bank** is retained.
- New: **Rubric Bank** (for Gradebook).
Learning Flow (formerly Lesson Plan) is integrated into the module, not a separate tool.

Learning Flow is useful as a one-stop place for students to access content.

Submission folders can now be added into Learning Flow.

If you use Learning Flow and follow the standard semester schedule, you (and your students) will be brought to the current week when entering the module.
LEARNING FLOW

ASSESSMENTS

- [ ] Tutorials from Mon 11 Sep to Fri 22 Sep
  - Download the tutorial sheets under Readings, assignments and other resources.

- [ ] Assignment (MCQ)
  - Do the Physics MCQ assignment, which covers the lecture videos and four required readings.

- [ ] Multimedia Channel: Physics - Week 3

- [ ] Quiz: Physics Assessment
  - Open on 28 Sep 2018, do before 5 Oct 2018 23:59

- [ ] Forum Discussion: Science (Physics)
  - Start or contribute to a discussion in the category above

- [ ] Feynman: The Meaning of It All, Chapter 1 - The Uncertainty of Science.pdf

- [ ] Weinberg: Facing Up, Chapter 8 - The Methods of Science.pdf
Two types of Multimedia channels:
- LumiNUS or
- MediaWeb/Panopto.
LumiNUS Multimedia Channel:

- Content can be added from YouTube.
- YouTube videos are played inline with the title and description automatically appended.
Asking Questions and Defining Problems

Posted by on 13 Feb 2019 5:20 pm

Science and Engineering Practice 1:

Asking Questions and Defining Problems

Paul Andersen explains how asking questions is the first step in both science and engineering. Questions allow scientists to direct inquiry with a goal of understanding the phenomena in the Universe. Questions allow engineers to define problems that require solutions.
LumiNUS Multimedia Channel:

- Playlist for content that need to be accessed in sequence.
  - Autoplay.
  - Uploaded videos can be interspersed with YouTube content.
1.1 Welcome to Q!

Asking Questions

A/P John Holbo
Multimedia / MediaWeb / Panopto Multimedia Channel.

GEQ1000

Asking Questions

[1820] 2018/2019 Semester 2

Owner

GENERAL

Overview

Settings

Module Details

Class & Groups

Attendance

Task Report

Multimedia > Physics (MediaWeb)

Search in folder "Physics (MediaWeb)"

Create

Sort by: Order Name Duration Date Rating

Add folder

phy-1-1-introduction-and-nomenclature-15m40s
21 minutes ago

phy-1-2-questions-role-in-critical-thinking-10m35s
21 minutes ago
MULTIMEDIA

- MediaWeb / Panopto Multimedia Channel:
  - Indexed (if you used PowerPoint and recorded with Panopto).
  - Text and audio is searchable (within limits).
FORUM

- Restrictions that can be put in place:
  1. Limit students to only one post.
  2. Limit total number of responses per topic.
  3. Limit number of words and/or characters per post.
- Follow topic instead of whole forum
- Posts can be pinned to the top.
Files submission folders allow a slightly different logic with regard to dates:

- Folder Open
- Folder Close
- New: Set deadline for submissions (optional)
  - Allows late submissions.
  - Allows students to access your comments, if enabled (on the Permissions tab)
Simpler ways to upload multiple files:

- **Ctrl-click** or **⌘-click** multiple files.
- Or **drag-and-drop**.
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<th>Last Modified</th>
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<th>Size</th>
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</table>

The materials and its content are confidential information and copyright materials of
- Submission folders which allow scoring and feedback.
- Submission completion status is represented graphically.
- Different weightage can be assigned to different graded items.
- Rubrics are available to facilitate grading.
Note:

- Waiting for NUS IT to build an import from LumiNUS feature into IMMS.
- In the meantime, export marks to a spreadsheet, then import the spreadsheet to IMMS.
WEB LECTURES

- Web lectures – also powered by Panopto.
- Can be uploaded immediately after recording.
Creating a poll is now more straightforward.
Can be created as a task.
Results are graphically represented.
Sub-groups can be created within Class Groups.

Some new things that can be done with groups:

- Permissions can be given based on Tutorial Groups.
- In Files, Bulk Create Folders option can create different folders for the different groups. This is useful for example in collecting assignments.
STUDENTS’ DASHBOARD

- What’s up next?
  - Module timetable
  - Chosen Consultation slot(s)
  - Student feedback surveys
  - Exams
- What’s due soon? > See all tasks
- Module announcements
Welcome back, Charlize Leong MC

What's up next?

- Module timetable
- Chosen Consultation slot(s)
- Student feedback surveys
- Exams

What's due soon?

- OTH112: Poll: Poll Question
  - Due in 7 days, on 22 Feb 2019

Module Announcements

- OTH112: test only
  - by Uday Satyamohan Athreya
  - Due: 16 Jan 2019

- test only ignore

All tools with deadlines.
<table>
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<tr>
<th>Course Code</th>
<th>Task Type</th>
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<tbody>
<tr>
<td>LUM1001</td>
<td>Forum Post: What is the difference between alpha and beta?</td>
<td>Completed 9 months ago, on 15 May 2018</td>
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<tr>
<td>LUM1001</td>
<td>Forum Post: Art movement</td>
<td>Completed 9 months ago, on 15 May 2018</td>
</tr>
<tr>
<td>OTH112</td>
<td>Poll: Poll Question</td>
<td>Due in 7 days, on 22 Feb 2019</td>
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<td>OTH112</td>
<td>Quiz: Science Test</td>
<td>Completed 17 days ago, on 29 Jan 2019</td>
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<td>OTH112</td>
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<td>Survey: Feedback Form</td>
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<td>OTH112</td>
<td>Submission: Stu Sub</td>
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Learning Tools Interoperability (LTI) compliant tools:

- Existing tools:
  - Turnitin, MediaWeb / Panopto
- Other LTI tools that you may have access to e.g.
  - Perusall, Piazza, Peerceptiv

Other external tools:

- Set up TeamUp groups (Chat)
- Set up Zoom meetings (Conferencing)
- External content (EdX)
REMINDERS

- IVLE goes to staff-only mode by August 2019.
- Start moving from IVLE to LumiNUS now. Please do not leave things until August.
- Be prepared: consider how to make your module resilient.
ABOUT LUMINUS

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