

Details for Module 2: ICT & Classroom Organization – ICT in the classroom and the computer lab (30 May – 7 July, 2017)

Dear ADSI Teachers,

This brief provides you with all the information on module 2: calendar, activities and portfolio tasks; login information etc. You can save a copy on your laptop or print a copy for the teachers in your school.

Schedule of Activities:

The Module is structured into two units and four topics and is implemented over 6 weeks.

Date	Unit descriptions	Activities
May 30 – June 16, 2017	Unit 1 – Topic 1: ICT use in STEM lessons – Case Studies ‘Simulation’ in STEM Subjects (Technology Content Knowledge - TCK)	<ul style="list-style-type: none"> Participant Polls to select the best lesson example for integrating simulation Chat and discussion forum reflections on the strengths and challenges of simulation to support different stages of a didactic STEM lesson
	Unit 1 – Topic 2: ICT Supporting STEM Pedagogy – ‘Computer lab and classroom learning labs’, ‘Classroom Management’ & ‘21Century Collaboration – Group Work’ techniques (Technology Pedagogy Knowledge - TPK)	<ul style="list-style-type: none"> Explore use of classrooms and computer labs for STEM subject teaching How to combine 21C ‘collaboration’ with classroom management integrating group work techniques and differentiated learning tasks Chat and forum discussion reflection on classroom management, 21st century skills of collaboration and group work techniques – ideas for improving group task strategies to respond to student differentiated needs
June 20 – July 7, 2017	Unit 2 – Topic 1: Computer Practical – Experiencing, developing and integrating simulations in presentation & creating student worksheets (Technology Knowledge - TK)	<ul style="list-style-type: none"> Practice selecting, using or developing simulations and developing a student worksheets to use in your STEM lessons Submit simulation selection to your teacher portfolio Submit student worksheet to your teacher portfolio
	Unit IV: Design, a lesson plan activity to try out ‘simulation’, ‘classroom management’ and ‘collaboration’ techniques appropriate for the different learning styles of your students (TPACK)	<ul style="list-style-type: none"> Design lesson plans with ‘simulation’ based on topics you are teaching Submit lesson plan, presentation/ simulation and worksheet to your teacher portfolio
	Teach, reflect, observe and re-design lessons using presentation	<ul style="list-style-type: none"> Teach your lesson and ask a colleague to observe it. Submit your reflection and your teacher colleague observation of your lesson to your portfolio to your teacher portfolio
Chat and discussion forum: In order to approve the module for certification and accreditation you have to participate in at least one chat and one forum discussion, as well as submit your tasks to the portfolio (lesson plans, presentation/ simulation, student worksheet)		

Part 1 – Logging in

1) Logging in to Module 2

- 1) When you login to Moodle you will be brought to the ADSI Module 2 at:
<http://adsiteachers.gesci.org/course/view.php?id=22>
- 2) Here you will see an overview: Units 1 and 2 (Topics 1,2,3 and 4) and the Module Summary

Part 2 – Working through the module

2) After you have accessed the module on the Moodle platform click on **Unit 1**

Unit 1 topic 1 is about 'ICT in STEM case studies' (TCK) and topic 2 is about 'classroom management, collaboration and group work techniques' (TPK)

Unit 1 topics 1&2 will be covered from May 30 – June 16, 2017.

During this time you should:

- Read through the unit and the resources
- Participate in the chat and discussion forum
- **The discussion topics 1&2** are: *Share your ideas about lots of topics in this unit – on using 'simulation', 'collaborative learning', 'group techniques' in the classroom and the computer lab for STEM teaching*
- There are 10 discussion forums as follows: groups 1-4, 5-8, 9-12, 13-14, 15-16, 17-20, 21-24, 25-28, 29-30, 31-32. Check your discussion forum group with your School based coordinator. You will find discussion forum group on the Moodle automatically after you log in.
- **The chat topics 1&2** are: *'Welcome to Module 2 – ICT in the STEM Curriculum' 'Simulation in the classroom' & Collaboration with ICT in the Classroom and the Computer Lab'*
There are 10 chats groups. Check your chat group with your School based coordinator. You will find your chat room on the Moodle automatically after you log in.
- **Chats will be organized on Mondays, Wednesdays and Thursdays on the hour – every hour from 8am to 5pm**

Thursday Chats	Times	Wednesday Chats	Times
Groups 1-4 17-20	Every hour a chat will start – from 8am – 5pm	Groups 5-8 21-24	Every hour a chat will start – from 8am – 5pm
Thursday Chats	Times	Monday Chats	Times
Groups 9-12 25-28	Every hour a chat will start – from 8am – 5pm	Groups 13-14; 15-16; 29-30; 31-32	Every hour a chat will start – from 8am – 5pm

- **You can the chat at the most suitable time for you. You will receive notice of chat day changes from your tutor in the event of public holidays etc.**

3) Once you have finished with unit 1 topics 1&2 you will move on to **Unit 2**

Unit 2 topic 1 is about 'Computer Practice – Simulation and Student Worksheets' (TK) and topic 2 is about 'Applying ICT and Pedagogical strategies in STEM classroom practice' (TPACK)

Unit 2 topics 1&2 will be covered from June 20 – July 7, 2017

During this time you should:

- Read through the unit and the resources
- Participate in the chat and discussion forum
- **The discussion topics 1&2** are: *Experiencing simulations and lesson design, observation and re-design*
- There are 10 discussion forums as follows: groups 1-4, 5-8, 9-12, 13-14, 15-16, 17-20, 21-24, 25-28, 29-30, 31-32. Check your discussion forum group with your School based coordinator. You will find discussion forum group on the Moodle automatically after you log in.
- **The chat topics 1&2** are: *'using and developing simulations' and 'TPACK lesson design'*

There are 10 chats groups. Check your chat group with your School based coordinator.

You will find your chat room on the Moodle automatically after you log in.

- **Chats will be organized on Mondays, Wednesdays and Thursdays on the hour – every hour from 8am to 5pm**

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- **You can the chat at the most suitable time for you. You will receive notice of chat day changes from your tutor in the event of public holidays etc.**
- The due date for submitting all tasks to your portfolio (Presentation/ Simulation, Lesson, Student Worksheet) is **Monday 10 July, 2017.**
- **Present your lesson set to your SBC for upload onto the school portfolio on the Moodle platform**

What we also ask you to do throughout the module is to communicate with us and your fellow teacher participants. Post your comments, questions and reflections to the **discussion forum**. Join in the **chats**.

If you have any questions, you can always send them to the ADSI help desk at: adsi@gesci.org .

Wishing you an enjoyable learning experience in the module.

_____ ADSI Lead tutor and team