Advanced Elective Modules (AEMs)


An AEM (How The iPhone Gets To Your Doorsteps) was conducted for a group of 20 secondary 3 students from Swiss Cottage Secondary School on 25-29 June 2012. This 5-days AEM programme, jointly organized by DIOM & DSCM, aims to introduce and entice secondary school students to the fascinating and important world of Supply Chain & Operations Management.

These are some of the comments from the students at the end of the course:
- “It was very informative and a really fun experience!”
- “I get to learn about Supply Chain when I have no idea about it.”
- “I like the equipment that they used to organise the goods as it is time saving and less manpower is needed.”
- “I like the GPS, the warehouse experiences”
- “I like the practicals that the course offers.”
- “The interesting visit to NLB-LSC.”
- Etc...
Engaging and motivating lessons conducted in our Quality Engineering Lab (QE Lab).
Students engrossed in the Design of Experiment (DOE) golf game
  – Discovering the secret to Experimental Design

Students having loads of educational fun during the “Mini-GPS Treasure Hunt” Game around RP campus
Visit to National Library Board – Library Supply Centre (NLB-LSC) to have a first-hand experience on how they manage their supply chain & operations.
Students exploring the various systems, equipment and technologies used in warehouse supply chain management at the iSail Lab.
2. Conducted in 2011 for Hua Yi Secondary School

From 30 May to 3 June 2011, a 5-days AEM programme on “Introduction to Supply Chain Management” (currently known as “How The iPhone Gets to Your Doorstep”) was conducted for Hua Yi Secondary School at the Quality Engineering (QE) lab. A total of 20 secondary 3 students were involved in the programme.

Throughout the programme, concepts on how to manage the interactions in a supply chain, optimise the inventory levels in the warehouse and how to select the shortest and fastest transportation routes were introduced to the students by means of interactive activities and games. They also learnt how to analyse and optimise process flow using our simulation software, Flexsim. The students also had the opportunity to have hands-on experience of using the technologies in our high-tech warehouse at iSAIL Lab and also got to know RP campus better by playing an exciting GPS game as part of the programme.

On the 4th day of AEM, a special arrangement was also made for the students to visit SingPost for a tour, organized the first time as part of the effort to make the AEM even more interesting and appealing to the secondary School students. During the tour, the student had a chance to witness for themselves how mails are being sorted, organized and dispatched to the recipients via their extensive and well-managed supply chain system. The students were also explained on some of the innovations that SingPost has undertaken in its transformation to stay relevant in this competitive age.
Engaging and motivating lessons conducted in our Quality Engineering Lab (QE Lab).
Students enjoying the mini “GPS Shootout Game” around RP campus.
Visit to SingPost to let students have a first-hand experience on how companies manage their supply chain.
Students exploring the various systems, equipment and technologies used in warehouse supply chain management at the iSail Lab.
Mr Yong presenting prizes to the best team and the top student of the class.
“Intro to Supply Chain AEM, WE ARE THE BEST! Yeah!”

Overall, this AEM has proven to be an eye-opening experience to the students and triggered much interest in the field of Supply Chain and Operations Management for the students. Hopefully, we’ll be able to see some of these secondary school students joining RP after their ‘O’ Levels in the near future!
GPS Shootout Game

The GPS Game is a mass shootout activity targeted at secondary students. The students played the game using Global Positioning System (GPS) technology and route planning technique to complete the tasks assigned throughout RP campus. Through the concept of route planning, the young minds learn to appreciate the importance of being productive with manufacturing, transportation, warehousing etc. all executed in coordination.

A total of 150 teens from 23 secondary schools participated in the event.

Winners of Cash Prizes:

1st: St. Andrew’s Secondary School
2nd: Marsiling Secondary School
3rd: Swiss Cottage Secondary School

Winners of Consolation Prizes:

Hillgrove Secondary School, Team 1
Dunearn Secondary School
Broadrick Secondary School
Ahmad Ibrahim Secondary School
Hillgrove Secondary School, Team 2