SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SP SCIENCE.06 CALENDER OF EVENTS (press the "CTRL" key and "click" on links, or simply "click" if in PDF format)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	29 Aug CLS-01: Understanding cGMP	30 Aug CLS-01: Understanding cGMP	31 Aug CLS-01: Understanding cGMP	1 CLS –02: Asian Noodles: Egg Noodles EEE-01: LED Flasher MM-01: SMS – Is There a Link to Repetitive Strain Injury (RSI)? EEE-10: X-periment – Making Java Games 101	2 SMIT-01: Creating Wall Paper for your Mobile Phone SMIT-02: Creating Music with Garage Band EEE-10: X-periment– Making Java Games 101	3 EEE-10: X-periment– Making Java Games 101
4 CLS-03: Ornamental Fish Keeping – An Engineering Approach EEE-02: Electronic Magic Candle	5 CLS-04: Dynamic Simulation of Distillation Processes CLS-05: 2D Proteomic Workshop CLS-06: Science and Art of Chocolate-Making EEE-03: Wireless Home Networking SMIT-03: Creating Visual Effects in Video and Film SMIT-04: Unlock your Creativity with Photoshop	6 CLS-07: Infectious Diseases CLS-08: The Wonders of Materials EEE-04: Electrical Safety EEE-05: Fun with Analogue Electronics MM-02: Flying Frenzy III MM-03: Transforming Hardened Steel into Tools and Consumer Products SMIT-05: Designing Cartoons and Animation for Games SMIT-06: Beyond Fear: Demystifying Cryptography and Steganography SMIT-07: Introduction to Visual Mobile Designer in NetBeans Mobility Pack SMIT-08: Linux Fedora Core for Users	7 EEE-06: Protect Yourself on the Internet	8 CLS-09: Making of Drugs by Chemical Synthesis CLS-10: Know your Spectacles ! CLS-11: SPELLing Bee CLS-12: Cleanroom Monitoring, Ultra-pure Water Production EEE-07: Fun with Small Practical Circuits	9	10

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
11	12	13 BE-01: Build Your Dream Bridge EEE-08: Wonders of LED SMIT-09: Have Fun Creating Rich and Animated Graphics !! SMIT-10: How To Make Your Website Dynamic Using ASP.NET	14 BE-02: Scrap Boat Racing	15	16 SMIT-11: 22nd National Software Competition	17
18 BE-03: Palm Investigation – What's that on your hands?	19 MS-01: Creative Art- a spin-off from mathematics	20	21	22	23	24
25	26	27	28	29 EEE-09: Development of Mini-Solar Car	30	

Note (1): 39 in-house events at Singapore Polytechnic and 1 X-PERIMENT! at Marina Square Atrium = Total of 40 events
Note (2): Information in this document is accurate as of 15 Aug 2006. Please check with the contact persons / sites on the latest updates. The organiser reserves the right to postpone or cancel any events if deemed appropriate.

Participating Schools / Department:
CLS – School of Chemical and Life Sciences
BE – School of the Built Environment
EEE - School of Electrical and Electronic Engineering
MM - School of Mechanical and Manufacturing Engineering
SMIT – School of Media and Info-Communications Technology
MS – Department of Mathematics and Science

Singapore Polytechnic's main page - http://www.sp.edu.sg
Singapore Polytechnic Science.06 main page - http://www.sp.edu.sg/science06

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-01

Understanding cGMP

Organisation	Singapore Polytechnic		
Date	29 Aug 2006 - 31 Aug 2006	**Start Time**	9.00 am
		End Time	5.00 pm
Venue	Singapore Polytechnic, Department of Industry Services, T712/T713		
Fee	$ 385	**Pre- Registration**	Yes
Type of Event	Workshop	**Target :**	Public, see Description
Contact Person	Ms Poh Chip Thean		
Contact Number	6870-6150		
Fax	6772-1957		
Email	lamks@sp.edu.sg		

Description

This course provides participants with a basic understanding of current Good Manufacturing Practices in the Biomedical Sciences Industry, specifically in the Pharmaceutical and Medical Technology sectors. It equips the participants with the essential information needed to ensure continual compliance to stipulated industry standards within their organisation as well as to national and/or international regulatory bodies. The topics include concepts of cGMP, organisation & personnel, building and facilities, warehousing, production and in-process control, control of inputs, equipment and maintenance, QA/QC controls, validation & procedures, documentation, and self inspection. (Registration deadline is 22 Aug 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-02
Asian Noodles: Egg Noodles

Organisation   Singapore Polytechnic

Date	1 September 2006	**Start Time**	2.00 pm
		End Time	4.30 pm

Venue   Singapore Polytechnic, Asian Noodle Technology Development Centre, Workshop 10

Fee	No Charge	**Pre- Registration**	Yes
Type of Event	Workshop	**Target** :Secondary, preferably Sec 3 / 4 students	

Contact Person   Ms Toh Hui Kheng

Contact Number   6870-6149

Fax   6772-1976

Email   Toh_hui_kheng@sp.edu.sg

Description

In this workshop, participants will be introduced to the different types of Asian noodles. They will be given useful tips on how to assess good quality egg (wonton) noodles. They will also have a hands-on experience in making egg (wonton) noodles. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-01

LED Flasher

Organisation	Singapore Polytechnic

Date	1 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue	Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target:**	Secondary students

Contact Person	Tan Hak Hwee
Contact Number	6879-0661
Fax	6772-1974
Email	hakhwee@sp.edu.sg

Description

Light Emitting Diode (LED) has been used in many applications such as LED sign boards, traffic lights, LED torch, car lights etc. In this interactive hands-on workshop, you will learn how basic electronic components can be assembled and soldered to create a project. (Registration deadline is 26 August 2006)

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

MM-01

SMS – Is There a Link to Repetitive Strain Injury (RSI)?

Organisation   Singapore Polytechnic

Date	1 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Mechanical & Manufacturing Engineering, Workshop W1116

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary, ITE students and teachers

Contact Person   Ong Fook Rhu

Contact Number   6870-4782

Fax   6772-1975

Email   OngFR@sp.edu.sg

Description

Recently, there is an increase in young people seeking treatment for RSI, as a result of excessive SMSing. This programme provides an opportunity to find out how motion of the hand and typing forces are measured. The result may provide an explanation for the link between excessive text messaging and the risk of RSI. (Registration deadline is 25 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-01
Creating Wall Paper for your Mobile Phone

Organisation   Singapore Polytechnic

Date	2 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of Media & Info-Communications Technology, Room T2031

Fee   No Charge   **Pre- Registration**   Yes

Type of Event   Workshop   **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

Participants will learn how to create and produce wall paper by using Photoshop paint program for their "personalised cell phone". (Registration deadline is 22 Aug 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-02
Creating Music with Garage Band

Organisation   Singapore Polytechnic

Date	2 September 2006	**Start Time**	10.00 am
		End Time	1.00 pm

Venue   Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2044

Fee   No Charge   **Pre- Registration**   Yes

Type of Event   Workshop   **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

This fun workshop introduces participants to the music-making software Garage Band. The intuitive nature of Garage Band will get them into a creative groove that will find them coming up with musical ideas that they never thought they had the talent or musical ability to do so. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2005

CLS-03
Ornamental Fish Keeping – An Engineering Approach

Organisation   Singapore Polytechnic

Date	4 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of Chemical and Life Sciences, Workshop W314

Fee   No Charge   **Pre- Registration**   Yes

Type of Event   Workshop   **Target:** Secondary, preferably Sec 3 / 4 students

Contact Person   Ting Kok Eng

Contact Number   6879-0485

Fax   6772-1976

Email   tingke@sp.edu.sg

Description

In this workshop, students will learn how to perform simple water quality checks such as pH, turbidity, nitrate and nitrite level and dissolved oxygen level in an aquarium. The knowledge will be useful in maintaining the aquarium environment as close to those in nature. Students will also learn how to operate the "fluidized bed" properly. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-02
Electronic Magic Candle

Organisation   Singapore Polytechnic

Date   4 September 2006   **Start Time**   2.00 pm

End Time   5.00 pm

Venue   Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee   No Charge   **Pre- Registration**   Yes

Type of Event   Workshop   **Target:** Secondary students

Contact Person   Tan Hak Hwee
Contact Number   6879-0661
Fax   6772-1974
Email   hakhwee@sp.edu.sg

Description

This program aims at exploring the exciting world of electronics with informative and interactive sessions, moving from individual basics to simple combinations of components, showing how and what can be done with just a few items. This session will enrich your basic understanding of simple electronic circuits and their applications in the day to day life. You will embark on a hands-on session and have fun in building your own working Magic Candle. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-04

Dynamic Simulation of Distillation Processes

Organisation	Singapore Polytechnic

Date	5 September 2006	**Start Time**	9.00 am
		End Time	4.00 pm

Venue   Singapore Polytechnic, School of Chemical and Life Sciences, Room T111

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target:**	Professional, see description

Contact Person   Cheah Sin Moh

Contact Number   6870-6150

Fax   6772-1976

Email   smcheah@sp.edu.sg

Description

Dynamic simulation has proven to be a useful tool in the training of process engineers and technologists, where one can learn about chemical plant operation and develop troubleshooting skills all within the safety and comfort of a classroom environment. In this workshop, participants will get to try their hands on a distillation plant by first experimenting with various operational upsets, and then trying to identify a malfunction in the plant that requires them to rectify the situation. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-05

2D Proteomic Workshop

Organisation	Singapore Polytechnic

Date	5 – 6 September 2006	**Start Time**	9.30 am
		End Time	4.00 pm

Venue	Singapore Polytechnic, School of Chemical & Life Sciences, Room T11A502

Fee	S$300	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary, tertiary students and teachers

Contact Person	Mrs Koh Siok Im
Contact Number	6772-1161
Fax	6772-1976
Email	silk@sp.edu.sg

Description

This workshop is organised in conjunction with the Singapore Society for Biochemistry & Molecular Biology (SSBMB) and Bio-Rad (S) Pte Ltd. The workshop introduces a variety of techniques and technologies used in protein sample preparation and proteome analysis. Participants will prepare sample for protein analysis, setting up 1st dimension (IEF) analysis and 2nd dimension PAGE gel. Please address your cheque to the Singapore Society for Biochemistry & Molecular Biology. The cheque should be sent to:
The Treasurer of SSBMB,
c/o Department of Biochemistry
National University of Singapore
10 Kent Ridge Crescent,
Singapore 119260
(Registration deadline is 21 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-06
Science and Art of Chocolate-Making

Organisation   Singapore Polytechnic

Date	5 September 2006	**Start Time**	2.30 pm
		End Time	4.30 pm

Venue   Singapore Polytechnic, School of Chemical & Life Sciences, Room T234

Fee	No Charge	**Pre- Registration**	Yes

Type of Event   Workshop   **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person   Tan Soon Ann

Contact Number   6870-6129

Fax   6772-1976

Email   Tan_Soon_Ann@sp.edu.sg

Description

Chocolate Delight

What delightful things is it in chocolate that makes it so irresistible? Is it just the rich, dark, velvety-smooth, creamy sensation that tempts your palate or is there something more? Discover that for yourself at the Chocolate-making Workshop! Make your very own homemade chocolate with just simple kitchen utensils. Yes, you would be given ample time to do so. Surprise your friends of what you'd gather from the Workshop. Perhaps, the experience and inspiration gained would spur you someday to create your very own locally flavoured chocolate that many would pay for. (Registration deadline is 22 Aug 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-03

Wireless Home Networking

Organisation	Singapore Polytechnic

Date	5 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue — Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T903

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary students

Contact Person	Tan Hak Hwee
Contact Number	6879-0661
Fax	6772-1974
Email	hakhwee@sp.edu.sg

Description

In this hands-on workshop, you will learn how to set up a wireless network at home to share resources (such as printer and Internet connection) or play networked games. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-03

Creating Visual Effects in Video and Film

Organisation   Singapore Polytechnic

Date	5 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of Media & Info-Communications Technology, Room T2055

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

This workshop introduces the basic knowledge of visual effects using high end visual effects compositing software. Participants will experience compositing footages to create a visual effects sequence. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-04

Unlock your Creativity with Photoshop

Organisation	Singapore Polytechnic		

Date	5 September 2006	**Start Time**	3.00 pm
		End Time	5.00 pm

Venue	Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2032

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary, preferably Sec 3 / 4 students

Contact Person	Ms Zaleha Bte Mokhtar
Contact Number	6772-1941
Fax	6779-7912
Email	Zaleha@sp.edu.sg

Description

This workshop explores creativity using software such as Photoshop. Participants will have hands-on session to create advertisement, poster, etc for school project or business use. It is not a whole course of Photoshop but contains some jest of it to give a 'wow' factor to your design. Come and discover Photoshop yourself. (Registration deadline is 22 August 2006)

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-07
Infectious Diseases

Organisation	Singapore Polytechnic		
Date	6 September 2006	**Start Time**	8.00 am
		End Time	12.00 nn
Venue	Singapore Polytechnic, School of Chemical & Life Sciences, T11A309		
Fee	No Charge	**Pre- Registration**	Yes
Type of Event	Workshop	**Target:** Secondary, preferably Sec 3 / 4 students	
Contact Person	Benjamin Yang Cheng Woi		
Contact Number	6879-0474		
Fax	6772-1976		
Email	s40132@sp.edu.sg		

Description

This workshop introduces participants to the world of micro-organisms and infectious diseases. The mystery of microbial resilience will be discussed. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-08

The Wonders of Materials

Organisation   Singapore Polytechnic

Date	6 September 2006	**Start Time**	2.00 pm
		End Time	3.00 pm

Venue   Singapore Polytechnic, School of Chemical & Life Sciences, Workshop W3112

Fee	No Charge	**Pre- Registration**	Yes
Type of Event	Science Show	**Target :** Secondary students	

Contact Person   Tay Chin How

Contact Number   6772-1320

Fax   6772-1976

Email   chinhow@sp.edu.sg

Description

Materials have a great impact on every part of human activity. New materials are constantly invented to meet human demand, enhance the quality of human lives, and drive the global economy. This 1-hour educational and fun-packed lecture demonstration is designed to expose students to some of the fascinating polymeric materials with emphasis on properties, structure/properties relationship and applications. It also shows how the basic principles of chemistry and physics are applied in the understanding of the nature of materials. (Registration deadline is 23 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-04

Electrical Safety

Organisation	Singapore Polytechnic

Date	6 Sep 2006	**Start Time**	1.00 pm
		End Time	5.00 pm

Venue Singapore Polytechnic, School of Electrical & Electronic Engineering, Workshop W414

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target:**	Secondary, preferably Sec 3 / 4 students

Contact Person	Tan Hak Hwee
Contact Number	6879-0661
Fax	6772-1974
Email	hakhwee@sp.edu.sg

Description

In this hands-on workshop, you will learn the dangers related to electric shock, understand the operation of protective equipment in the home and industry. (Registration deadline is 29 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-05

Fun with Analogue Electronics

Organisation   Singapore Polytechnic

Date	6 Sep 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary students	

Contact Person   Tan Hak Hwee

Contact Number   6879-0661

Fax   6772-1974

Email   hakhwee@sp.edu.sg

Description

In this hands-on interactive workshop, participants will learn to identify and use some of the electronic components such as diodes, LED, resistor, LDR, capacitor, transistors, reed-relay and IR-transmitter/receiver. They will also construct and test some simple but useful analogue circuitries. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 200

MM-02

Flying Frenzy III

Organisation   Singapore Polytechnic

Date	6 Sep 2006	**Start Time**	8.30 am
		End Time	1.00 pm

Venue   Singapore Polytechnic, Multi-purpose Field

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Competition/Award	**Target :**	Secondary students

Contact Person   Ms Rosmawati MD SULAIMAN

Contact Number   6424-4041

Fax   6424-4055

Email   Ros@northeast.org.sg

Description

Flying Frenzy III is jointly organised by the Singapore Polytechnic, School of Mechanical & Manufacturing Engineering and North East Community Development Council.

The event will enhance school students' interest in the field of aeronautics. The objective of this competition is to design and build a non-powered glider capable of carrying a 5 kg load, launching off at a 10m high ramp. The glider that covers the longest ground distance wins. In addition, there will be a prize for the most creative and innovatively designed glider. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

MM-03

Transforming Hardened Steel into Tools and Consumer Products

Organisation   Singapore Polytechnic

Date	6 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Mechanical & Manufacturing Engineering, Room T12101

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary, preferably Sec 3 / 4 students

Contact Person   Tan Cher Hwee

Contact Number   6870-7034

Fax   6772-1975

Email   tchwee@sp.edu.sg

Description

This workshop introduces the production of popular consumer items such as computers, MP3 players and cameras. The advantage of computer-controlled Electrical Discharge Wire-Cut (EDWC) machine will be explained. Participants will appreciate that both quality of product and low production cost are possible. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-05
Designing Cartoons and Animation for Games

Organisation	Singapore Polytechnic

Date	6 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2031

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary, preferably Sec 3 / 4 students

Contact Person	Ms Zaleha Bte Mokhtar
Contact Number	6772-1941
Fax	6779-7912
Email	Zaleha@sp.edu.sg

Description

This interesting workshop will introduce participants to the design principles of cartoons and animations for 2-D games. Participants will learn how to draft cartoons and to use software tools to reproduce these cartoons in digital form.
(Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-06

Beyond Fear: Demystifying Cryptography and Steganography

Organisation   Singapore Polytechnic

Date	6 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2032

Fee	No Charge	**Pre- Registration**	Yes

Type of Event   Workshop   **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   67721941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

This workshop introduces the participants to the fundamentals of cryptography, and the awareness that every information security professional should know. In addition, the workshop will highlight the other facet of cryptography, which is steganography. It uses the commonly available file formats to hide secret text or data. Come and join us, to learn more about information security. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-07

Introduction to Visual Mobile Designer in NetBeans Mobility Pack

Organisation	Singapore Polytechnic		

Date	6 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue Singapore Polytechnic, School of Media & Info-Communications Technology, Room T2138

Fee	No Charge	**Pre- Registration**	Yes

Type of Event Workshop **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person Ms Zaleha Bte Mokhtar
Contact Number 67721941
Fax 6779-7912
Email Zaleha@sp.edu.sg

Description

This workshop introduces participants to the use of NetBeans Mobility Pack to generate Java code for rapid development of Java applications for mobile phones and other Java Micro Edition (Java ME) technology-enabled devices. (Registration deadline is 22 Aug 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 200

SMIT- 08

Linux Fedora Core for Users

Organisation	Singapore Polytechnic

Date	6 September 2006	**Start Time**	3.00 pm
		End Time	5.00 pm

Venue Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2021

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary, preferably Sec 4 students

Contact Person	Ms Zaleha Bte Mokhtar
Contact Number	6772-1941
Fax	6779-7912
Email	Zaleha@sp.edu.sg

Description

This workshop introduces participants to Linux OS as an alternative to Windows desktop. Participants will be given hands-on lesson on the installation of Linux Fedora Core. The workshop will also give leads to useful Linux resource and some basic Unix commands. Come and discover Open Source as an alternative computing environment. (Registration deadline is 22 August 2006)

.

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-06

Protect Yourself on the Internet

Organisation	Singapore Polytechnic

Date	7 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue	Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T903

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary students

Contact Person	Tan Hak Hwee
Contact Number	6879-0661
Fax	6772-1974
Email	hakhwee@sp.edu.sg

Description

In this hands-on workshop, participants will learn how computer networks and the Internet work, and the tools and methods for protecting their home computer and networks while on the Internet. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-09
Making of Drugs by Chemical Synthesis

Organisation	Singapore Polytechnic

Date	8 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue	Singapore Polytechnic, School of Chemical & Life Sciences, Room T111 / Workshop W315A

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	8 September 2006	**Target :**	Secondary, preferably Sec 3 / 4 students

Contact Person	Dr Liang Chen-Hua
Contact Number	6879-0602
Fax	6772-1976
Email	liangch@sp.edu.sg

Description

This workshop provides participants with the knowledge of primary pharmaceutical manufacturing. Participants would experience a 3-storey Pilot Scale API Manufacturing Plant, which enhances their understanding of industrial pharmaceutical manufacturing. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-10
Know your Spectacles !

Organisation Singapore Polytechnic

Date	8 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue Singapore Polytechnic, School of Chemical & Life Sciences, Workshop W211D

Fee No Charge   **Pre- Registration** Yes

Type of Event Workshop   **Target :** Secondary, preferably Sec 3 / 4 students

Contact Person Ms Sharon Lim

Contact Number 6879-0477

Fax 6870-4617

Email sharonlim@sp.edu.sg

Description

This workshop provides participants with the experience of spectacle making and an introduction to a variety of lenses. Such knowledge makes them more aware of their visual needs and helps them make an informed choice of eyewares. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-11

SPELLing Bee

Organisation	Singapore Polytechnic		

Date	8 September 2006	**Start Time**	1.00 pm
		End Time	5.00 pm

Venue Singapore Polytechnic Auditorium, near Dover MRT Station

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Competition/Award	**Target:** Secondary, preferably Sec 3 students	

Contact Person Dr Audrey A Yuen

Contact Number 6870-6145

Fax 6772-1976

Email AAYuen@sp.edu.sg

Description

The competition consists of spelling of life science words, vocabulary, crossword puzzles and pictograms and a talk on Life Science while the judges deliberate the results. (Registration Deadline is 25 August 2006).
(Important note: A school can send in only ONE team. Each team consists of TWO members)

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

CLS-12

Cleanroom Monitoring, Ultra-pure Water Production

Organisation	Singapore Polytechnic

Date	8 September 2006	**Start Time**	2.00 pm
		End Time	4.00 pm

Venue	Singapore Polytechnic, School of Chemical & Life Sciences, Room T12A202

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary, preferably Sec 3 / 4 students

Contact Person	Dr Yin Xi Jiang
Contact Number	6772-1867
Fax	6772-1976
Email	yinxj@sp.edu.sg

Description

In pharmaceutical industry and semiconductor industry, the processing steps are implemented in a cleanroom. The air is maintained at a well-controlled temperature and humidity level and is continuously filtered and re-circulated. Come to this workshop and you will understand the cleanroom technology. We will show you how to monitor and maintain a cleanroom. You will also learn the production of ultra-pure water and study the properties of ultra-pure water. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-07

Fun with Small Practical Circuits

Organisation   Singapore Polytechnic

Date	8 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target:**	Secondary students

Contact Person   Tan Hak Hwee

Contact Number   6879-0661

Fax   6772-1974

Email   hakhwee@sp.edu.sg

Description

In this interactive workshop, you will learn basic electrical and electronic devices such as resistors, transistors, sensors and transistors (acting as switch) through developing a project. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

BE-01

Build Your Dream Bridge

Organisation   Singapore Polytechnic

Date	13 September 2006	**Start Time**	1.00 pm
		End Time	4.00 pm

Venue   Singapore Polytechnic, School of the Built Environment, Structures Laboratory, Workshop W417

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary, preferably Sec 3 / 4 students

Contact Person   Tao Neng Fu

Contact Number   6772-1152

Fax   6772-1973

Email   cnftao@sp.edu.sg

Description

Bridges are the most ancient structures human made for the comfort of built environment. Their designs follow human's instinct and, of course, follow theories of mechanics. Participants will be taught some basic rules of design and given a chance to make and test their model of foot bridges with wooden plates/sticks. (Registration deadline is 28 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 200

EEE-08
Wonders of LED

Organisation   Singapore Polytechnic

Date	13 September 2006	**Start Time**	2.00 pm
		End Time	5.00 pm

Venue   Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary students

Contact Person   Tan Hak Hwee

Contact Number   6879-0661

Fax   6772-1974

Email   hakhwee@sp.edu.sg

Description

In this interactive hands-on workshop, a specially designed LED board is used to illustrate the importance of LEDs. Participants will also be able to use the board to show alphabet and graphical information. (Registration deadline is 26 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-09

Have Fun Creating Rich and Animated Graphics !!

Organisation   Singapore Polytechnic

Date	13 September 2006	**Start Time**	9.00 AM
		End Time	12.00 NN

Venue   Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2033

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

Participants will experience the entire process of designing, editing and animating graphics within 3 hours. They will be taught the process of uploading the graphics to the web, designing graphics using electronic drawing pad, Macromedia Fireworks and Flash software. (Registration deadline is 28 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-10
How To Make Your Website Dynamic Using ASP.NET

Organisation   Singapore Polytechnic

Date	13 September 2006	**Start Time**	9.00 am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of Media and Info-Communications Technology, Room T2033

Fee   No Charge   **Pre- Registration**   Yes

Type of Event   Workshop   **Target:** Secondary, preferably Sec 3 / 4 students

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

In this workshop, participants will learn how to build a dynamic website using Microsoft latest technology. Participants will have hands-on lesson to develop professional applications that wow the users. Come and discover Microsoft ASP.NET technology. (Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

BE-02

Scrap Boat Racing

Organisation   Singapore Polytechnic

Date	14 September 2006	**Start Time**	9.30am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of the Built Environment, Hydraulics Laboratory, Workshop W511

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :** Secondary, preferably Sec 3 / 4 students	

Contact Person   Lau Chin Ming

Contact Number   6879-0453

Fax   6772-1973

Email   laucm@sp.edu.sg

Description

Students will be introduced to the principles of water flow when they participate in a boat race. Participants fabricate their boats from polystyrene foam and water-proof motor. (Registration deadline is 28 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

SMIT-11

22nd National Software Competition

Organisation   Singapore Polytechnic

Date	16 Sep 2006	**Start Time**	8.45 am
		End Time	1.30 pm

Venue   Singapore Polytechnic, Concourse & Lecture Theatre LT1A (A/B)

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Competition/Award	**Target:** Secondary and Junior College students	

Contact Person   Ms Zaleha Bte Mokhtar

Contact Number   6772-1941

Fax   6779-7912

Email   Zaleha@sp.edu.sg

Description

The 22nd National Software Competition consists of 3 categories:

A. IT Quiz for Secondary School Students

B. Algorithm Design for Secondary School & Junior College Students

C. Internet Lego Game Competition for Secondary School Students

(Registration deadline is 22 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

BE-03

Palm Investigation – What's that on your hands?

Organisation   Singapore Polytechnic

Date	18 September 2006	**Start Time**	10.00 am
		End Time	12.00 nn

Venue   Singapore Polytechnic, School of the Built and Environment, Workshop W511C

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target** : Secondary, preferably Sec 3 / 4 students

Contact Person   Ms Elizabeth Chow

Contact Number   6870-4600

Fax   6772-1973

Email   eliz_chow@sp.edu.sg

Description

This is a fun investigation on human palm through experiments. Firstly, your palm will be magnified under a microscope. Secondly, you will be able to make invisible invaders visible. The workshop unfolds the wonders of micro-organisms and underlines the importance of good personal hygiene. (Registration deadline is 28 August 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

MS-01

Creative Art- a spin-off from mathematics

Organisation   Singapore Polytechnic

Date	19 September 2006	**Start Time**	1.00 pm
		End Time	4.00 pm

Venue   Singapore Polytechnic, Department of Mathematics and Science, Room T723

Fee	No Charge	**Pre- Registration**	Yes

Type of Event	Workshop	**Target :**	Secondary, preferably Sec 3 / 4 students

Contact Person   Fan Kee Seng

Contact Number   6772-1751

Fax   6772-1959

Email   fankeeseng@sp.edu.sg

Description

Participants will learn how to create 2-D and 3-D digital arts using maths software. A practical experience with different mathematical functions to produce quality artworks will be provided. (Registration deadline is 11 September 2006).

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006

EEE-09

Development of Mini-Solar Car

Organisation   Singapore Polytechnic

Date	29 September 2006	**Start Time**	9.00 am 1.00 pm
		End Time	12.00 nn 4.00 pm

Venue   Singapore Polytechnic, School of Electrical & Electronic Engineering, Room T1621

Fee	No Charge	**Pre- Registration**	Yes
Type of Event	Workshop	**Target:**	Secondary, preferably Sec 3 / 4 students

Contact Person   Tan Hak Hwee

Contact Number   6879-0661

Fax   6772-1974

Email   hakhwee@sp.edu.sg

Description

The objective of this hands-on workshop is to teach you what solar energy is and how solar energy can be used to generate the electricity. To experience the application of solar energy, you will be involved in the making of mini-solar car. (Registration deadline is 29 August 2006).
Session 1. 9:00 am – 12:00 pm
Session 2. 1:00 pm – 4.00 pm

SINGAPORE POLYTECHNIC SCIENCE.06 EVENTS – SEPTEMBER 2006	

EEE-10: X-PERIMENT !

Event Title: **Making Java Games 101**	Organisation: Singapore Polytechnic	
Date & Time: 1 to 3 Sep 2006 (Fri – Sun)	Venue: Marina Square Atrium, Level 2	Cost: Free

Registration Details:	Contact Person: Mr Foo Chun Choong Tel/Fax: 67721710 / 67721972 Email: ccfoo@sp.edu.sg Website: : http://www.sp.edu.sg

Description:

Incoming message detected:
"Mayday! Mayday! Singapore invaded by mutant **Java games (for handphones and PCs)**. High scores and cheat codes needed for protection. Save us, please….Bzzt". Transmission ended.

Commander, we have a critical situation here.
Marina Square Atrium, Level 2 has been invaded by mutant Java games.
Your mission is to proceed to the X-periment and find out:
- What are these things?
- How do they work?
- Who made them? Are they related to the secretive organization called the EEE Games Factory?
- How are they made?
- Is it possible to defeat them using high scores? How about cheat codes?

Go! Now!!!