



Curriculum Management and Planning for CIT with Different Elective Modules in School

Yau Siu Hung@YCHWWSSS

IT Coordinator (1999)
Subject Coordinator (1999)

Background of School



- Government-aided secondary school
- Located in Tseung Kwan O
- Established in 1999

Vision

- Adhering to the principle of “Serving the Community in the Spirit of Benevolence”, we pledge to provide our students with quality holistic education and to develop our students into the pillars of our country.



Missions



One of our school missions is


- to provide a diversified school-based curriculum to help our students to acquire new information technology and a global perspective.

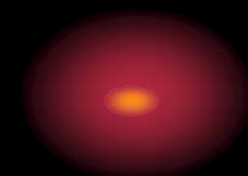
History of Computer Subjects in our school



- 2004 – Information Technology
- 2005 – Computer and Information Technology
- 2006 – Computer and Information Technology
 - Computer Applications
- 2007 – Computer and Information Technology
 - Computer Applications

Computer Subjects in our school (2002 - 2004)




- Subject taken :
Information Technology vs
Computer Studies
 - Examination Language :
English vs Chinese
 - Compulsory vs Optional
 - No. of Students (160 students)
- 

Difficulties (2002 - 2004)



- Subject taken :
Information Technology
- Banding of Students
- No. of Students (4 x 40 students)
- Period per cycle (5 periods)
- No. of teachers needed (at least 2)
- Teacher's Experience (new)
- No. of Computer rooms (at least 2)
- Compulsory subjects
- Examination Language

Computer Subjects in our school (2003 - 2005)



- Subject taken :
Computer and Information
Technology
- Examination Language
- No. of Students (160 students)
- Compulsory subject (3 modules)
- No. of Teachers (?)

Difficulties (2003 - 2005)



- Selection of Modules
 - 3 modules opened for students to select
- More teachers needed
 - teaching at the same time
- More Computer Rooms needed
 - 2 or more classes teaching at the same time

Elective modules provided in our school



- CIT is taken by all S4 students
- 160 students
- 3 elective modules out of 4
(Module A, C and D)

Providing different elective modules in CIT?



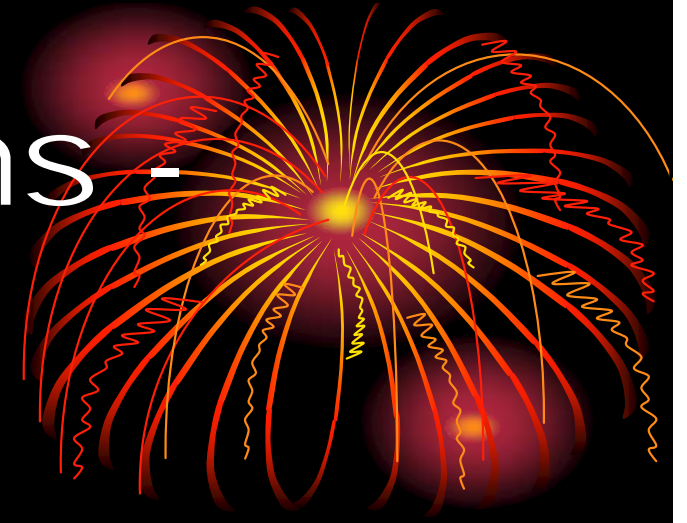
- IT skills is a necessary skill for students
- Provide more choices for the students
- Students' selection based on their interest and abilities
- Discuss with subject teachers
- mission : to provide a diversified school-based curriculum to help our students to acquire new information technology and a global perspective.

Difficulties



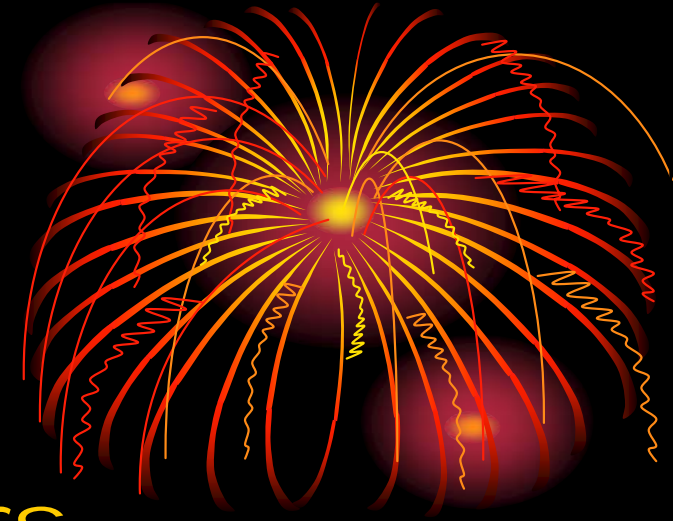
1. Human resources arrangement
2. Students' preferences in selecting elective module
3. Language
4. Timetable arrangement
5. Resources management
6. Learning diversity
7. Handling of Coursework

Solve the Problems - Human resources



1. No. of Teachers
2. Teaching subjects of teachers
3. Experience of Teachers

Human resources arrangement (IT)



- Recruitment of teachers
- Teachers' professional development, especially for the new teachers.
- Handling of Course work

Human resources arrangement (CIT)



- Teacher expertise and interest in different modules
 - Programming, Multimedia VS Networking
- Teachers' professional development, especially for the new teachers.
- Handling of Coursework in different modules
 - Coursework Coordinator

Providing selection in elective modules



- Students' selection based on their interest and abilities
- Briefing on CIT and different modules
- MOCK RUN on selection of streams, choice of subjects and also the choice of electives in CIT in S3.
- finalized choices of subjects and modules for difference classes
 - students' choices
 - teaching resources (including computer rooms and teacher's preference, etc.)

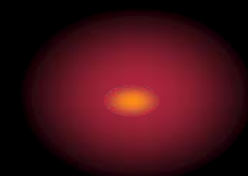
Students' preferences in selecting elective module



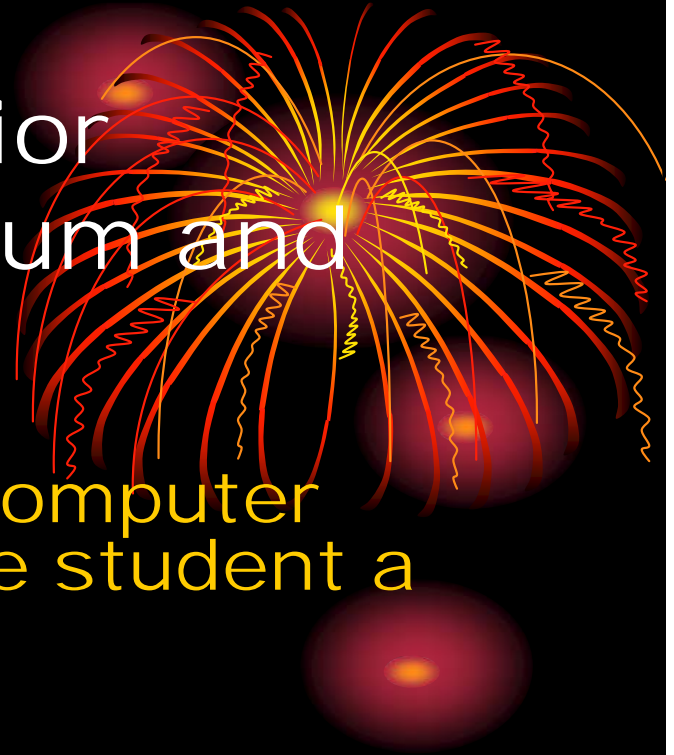
- **Module D**
(Multimedia Production and Web Authoring)
- **Module A**
(Algorithm and Programming)
- **Module C**
(Data Communications and Networking)

Students' preferences in selecting elective module



- Factors:
 - Ability of the students (intakes of the student)
 - Interest of the students
 - Curriculum provided in junior form
 - Briefing on CIT and different modules
- 

Relationship between Junior computer literacy Curriculum and students' selection



- The curriculum in junior form computer literacy affect the choice of the student a lot.
- In the first few year, we have web authoring in Junior form CL curriculum, a lot of students chose multimedia and web authoring in S4 CIT
- Later, we have added networking curriculum in the S3 CL curriculum, more students willing to select Module C.

Timetable arrangement



- Time tabling is a hard job.
- It shall consider the teachers and also usage the computer rooms.
- It also consider the classes for the same module

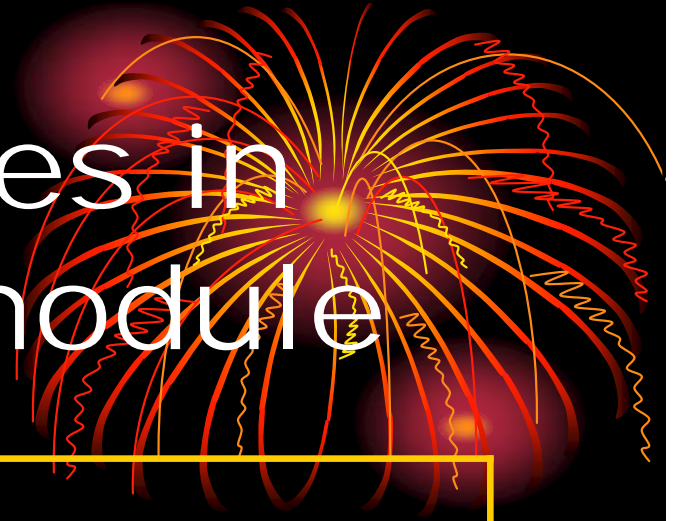
Students' preferences in selecting elective module



2004			
4A	4B	4C	4D
Arts	Arts	Arts	Science
Module D	Module D	Module C	Module A
		Module D	Module D

2005			
5A	5B	5C	5D
Arts	Arts	Arts	Science
Module D		Module C	Module A
		Module D	

Students' preferences in selecting elective module



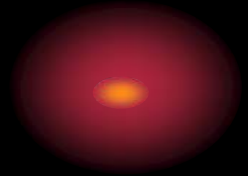
2006			
4A	4B	4C	4D
Arts	Arts	Science	Science
Module D	Module D	Module C	
		Module A	

2007			
4A	4B	4C	4D
Arts	Arts	Science	Science
	Module A, Module C, Module D		

Students' preferences in selecting elective module (2007)



- **Module C**
(Data Communications and Networking)
- **Module A**
(Algorithm and Programming)
- **Module D**
(Multimedia Production and Web Authoring)

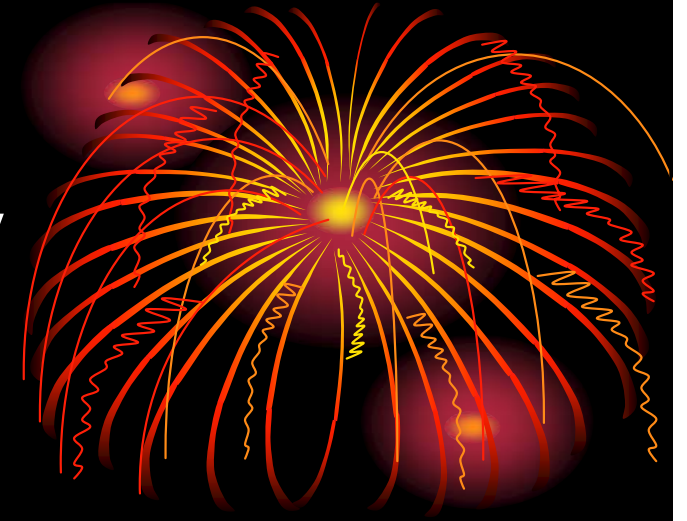


Resources management



- **Computer rooms**
(Computer room vs Classroom)
- **Technical Supporting Staff**
(TSS vs IT種子)
- **Teachers**
(Senior Form and Junior Form, Team Work)

Learning diversity



- Assessment
- Special Arrangement on the Split Classes arrangement
- Grouping of Classes
 - (4B+4C)
 - (5A+5B) (5C+5D)

Handling of Coursework



- Different standards
- Different Module
- Marking Scheme
- Sharing of marking of coursework
- Modulation of coursework

(Coursework Coordinator)

Planning for the NSS ICT



- 2004 – Information Technology
- 2005 – Computer and Information Technology
- 2006 – Computer and Information Technology
– Computer Applications
- 2007 – Computer and Information Technology
– Computer Applications
- 2008 – Computer and Information Technology
– Computer Applications
- **2009 – Information and
Communication
Technology (ICT)**

2009 – Computer and Information Technology (S5)

2009 – Computer Applications (S6, S7)

Planning for the NSS ICT



2009

4A

4B

4C

4D

4E

Arts Stream/ Science Stream ???

groups(??? X ??? students)

Modules ???

Planning for the NSS ICT



- IT skills is a necessary skill for students
- Only 2X or 3X will be selected by the students, therefore it cannot allow to recruit too many students to take the ICT

Planning for the NSS ICT



- New module for ICT, teacher profession development will be arranged
 - EDB Seminar, workshop, sharing
 - Course provided by other organization such as Cisco, Oracle, Microsoft, etc.
 - Sharing with other teachers
 - School based training, sharing

Planning for the NSS ICT



- New CL Curriculum of Junior Form will be established for the NSS ICT
 - Database
 - Networking
 - Programming
 - Multimedia
 - Video taking and Editing
 - Mobile Applications
 - Communication (IM, video conferencing, Skype)
 - Web Base Applications etc...

Planning for the NSS ICT



- Activities will be arranged for all student in their OLE session to promote the IT environment
 - School Base activities
 - Competition
 - School Bases applications
 - Joint School Activities
 - Talks ...

Planning for the NSS ICT



- Preparation for Teachers
- Preparation for Students
- Evaluation and Strive for More

Thank You

