
Workshop on Using
“Student Option
Programme” (SOP)
for SS Timetabling
[Refreshed]

Curriculum Development
Institute

12 May 2023

Programme

Time	Programme	Facilitator/ Speaker
15:00 – 15:30	Introduction Demonstration of how to use SOP	CDI Officers, EDB
15:30 – 16:00	Hands-on practice in using SOP	
16:00 – 16:05	Break	
16:05 – 16:25	Strategies for handling special cases School-based practices of elective subject allocation & timetabling	CDI Officers, EDB
16:25 – 16:55	Sharing of good practices in using SOP	Mr Chan Pun Tak, King's College
16:55 – 17:00	SOP 2.0	CDI Officers, EDB
17:00 – 17:30	Q & A Group Interaction - Feedback collection on SOP	

Rationale for the design of SOP

- Student Option Programme (SOP) has been developed to assist schools in designing their block timetables and assigning elective subjects to students that can maximise the satisfaction rate of students' choices under various schools' physical constraints and resources limitation.

Professional Development Programmes for Teachers

- 49 workshops were conducted on using the SOP from 2008 to 2022.
- More than 1,000 participants have attended the workshop.

Enhancement of SOP

- In response to the feedback collected during the workshops, CDI prepared an upgraded version of the SOP with enhanced features.
- The upgraded SOP (Version 1.2.1) was released in March 2023 to enhance the compatibility of SOP with the new MS Windows and MS Office versions. The .NET Framework of SOP was updated from version 2.0 to 4.8.

**Workshop on Using
Student Option
Programme (SOP)
for SS Timetabling**



User Guide



<https://sop.edb.hkedcity.net>

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Introduction

Download Update

Click here

SOP Related Activities

FAQ

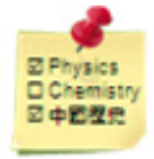
Introduction

The Student Option Programme (SOP) is a timetabling tool that assists schools in designing their block timetables and assigning elective subjects to S4 students so as to maximise the satisfaction rate of students' choices under schools' various constraints. It also helps schools to print students' individual timetables incorporating the timetabling results generated by WebSAMS Timetabling (TTL).

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[Important Notices](#)

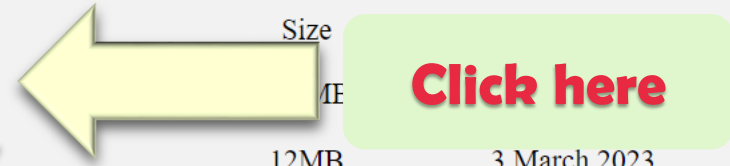


Student Option Programme

Introduction	Download Update	Examples
SOP Related Activities	FAQ	NAS Web Bulletin

Download

Student Option Programme			Reference Materials
Download	Size		
Setup File for Version 1.2.1 Update	12MB	3 March 2023	FAQs
User Manual for Version 1.2.1 Update	134MB	26 April 2022	Useful Techniques : Examples of School Practices
Hands-on Practice (with Demo)			



Click here

Programme for Online Student Option Survey		
Download	Size	Date
Setup File	172KB	26 June 2013
User Manual	4MB	3 June 2009

Please follow the Data Privacy Law including the Data Protection Principles by Privacy Commissioner for Personal Data, Hong Kong if personal data are used. For details, please refer to [The Personal Data \(Privacy\) Ordinance Website](#)

Installation

To install the
SOP



AccessEngineDa
tabase



DotNetFX48



setup



SOP.Setup

For MS Office 64-
bit version users

Installation

Education Bureau
The Government of the Hong Kong Special Administrative Region

Physics
 Chemistry
 中國歷史

Student Option Programme

User ID:

User Name:

Password:

Confirm Password:



Login

SOP Login

Education Bureau
The Government of the Hong Kong Special Administrative Region

Physics
 Chemistry
 中國歷史

Student Option Programme

User ID

Password


Login

SOP Version 1.2.0

SOP

New....

Open Recent DataBase

 C:\Users\tritatkuo\Documents\workshop.accde

More....

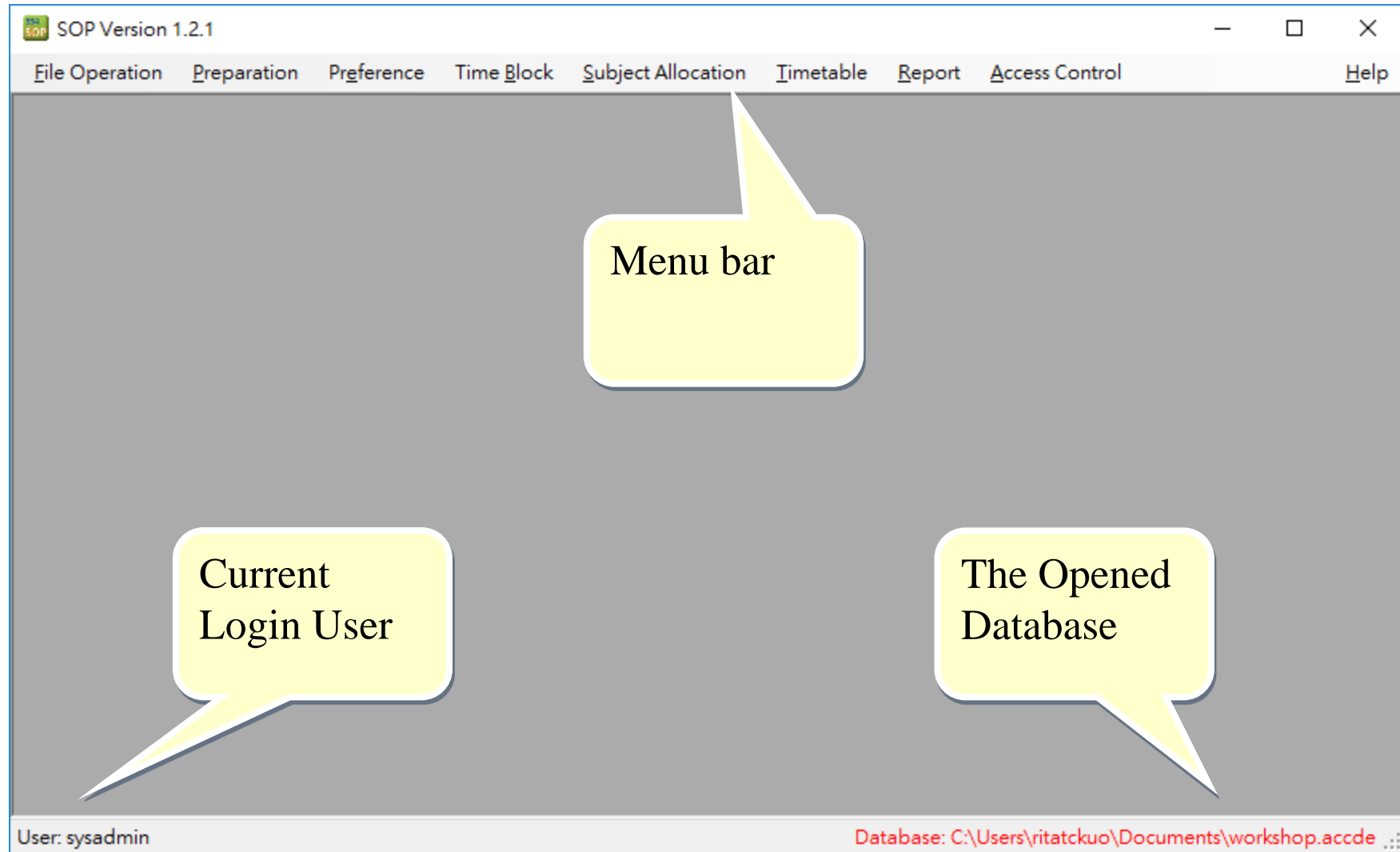
Last Login Time: - 26/04/2022 05:00 下午

Current State

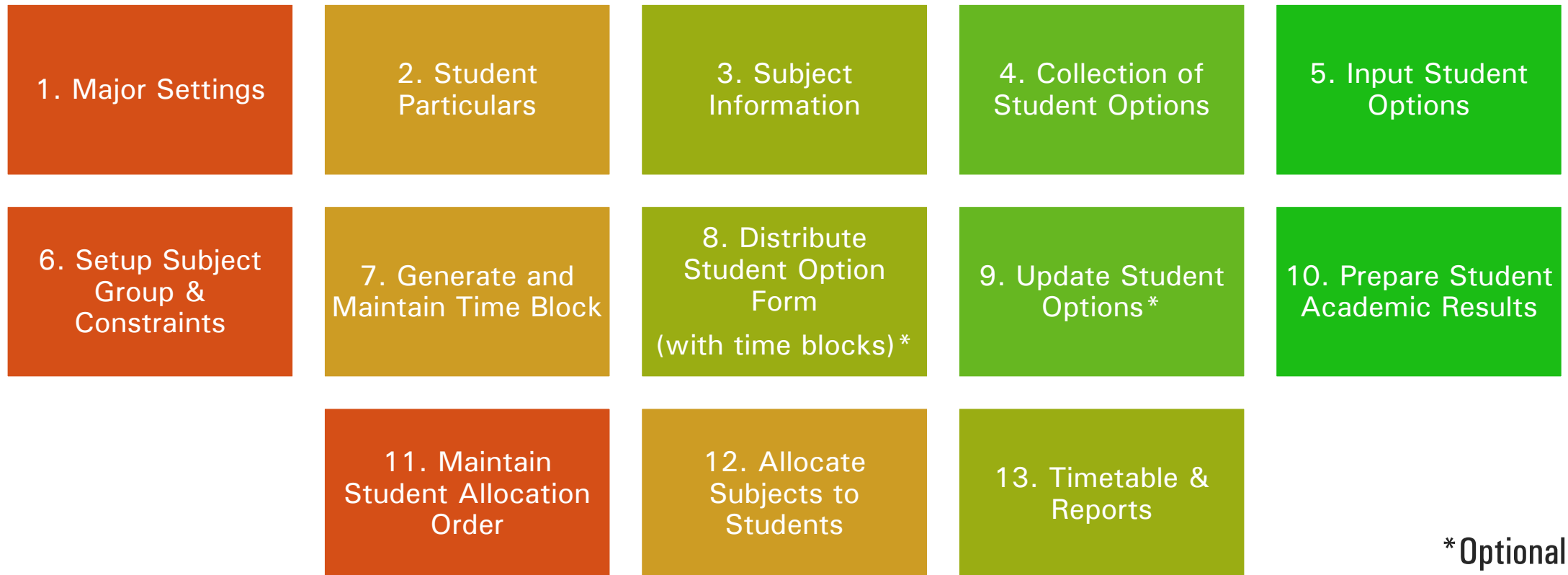
Student Preference	In Progress
Time Block Generation	Completed
Student Allocation	In Progress

 Close

Interface

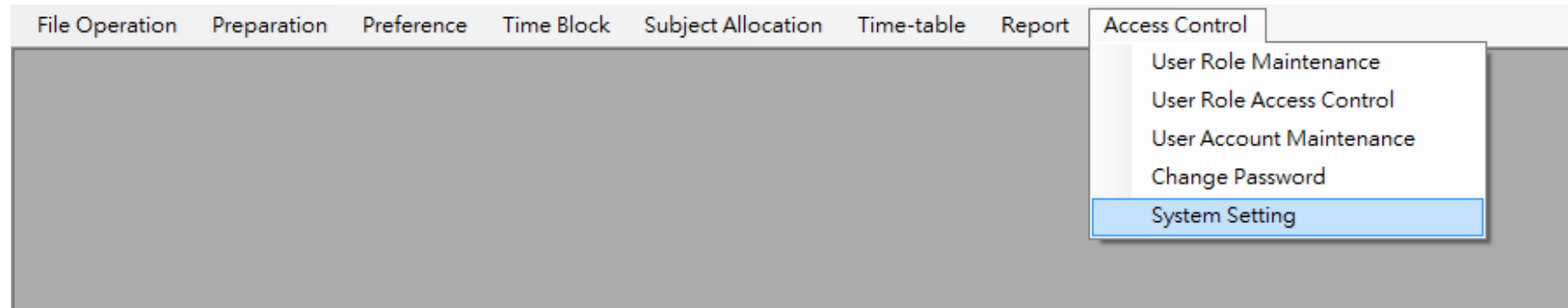


Workflow



*Optional

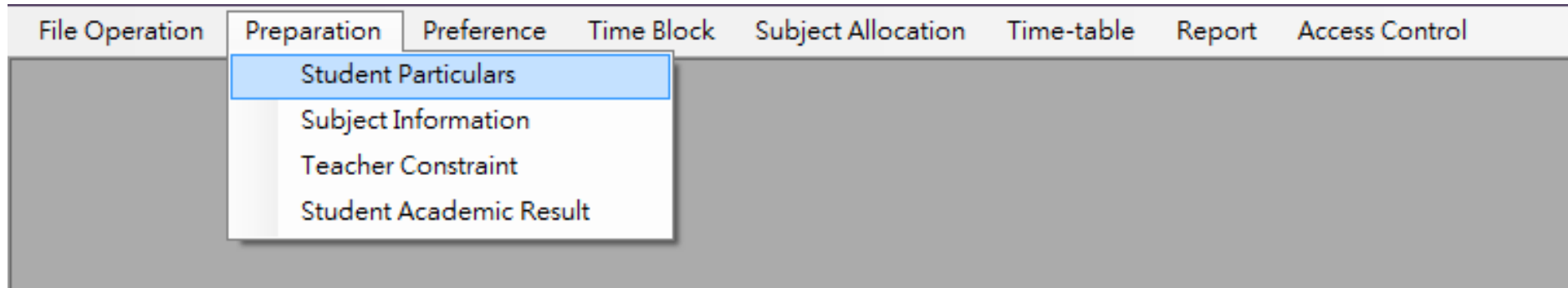
1. Major Settings



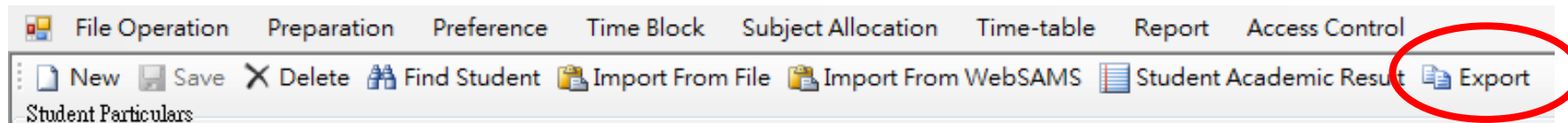
Number of Time Block

Number of Subjects Student to be taken

2. Student Particulars



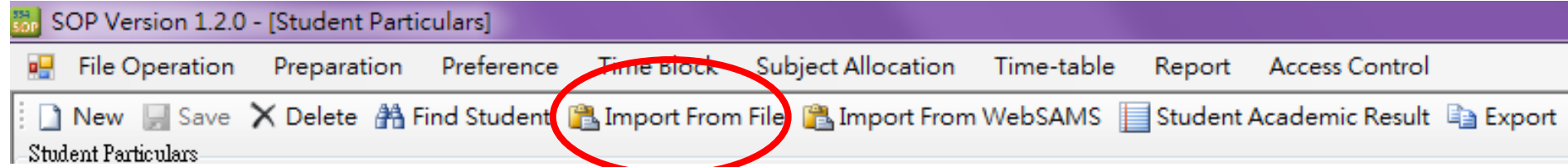
2. Student Particulars



The screenshot shows the Microsoft Excel ribbon and a portion of the spreadsheet grid. The ribbon is set to the 'Home' tab (檔案) and includes the following groups: Clipboard (剪貼簿), Font (字型), Paragraph (對齊方式), and Numbers (數值). The active cell is B5. The spreadsheet grid shows the following data:

	A	B	C	D	E	F	G	H
1	Student Number	Student Name	Gender	Class	Class Number	Next Year Class	Rank	Num of Electives
2								

2. Student Particulars



Import Wizard - Select Import Field

Select Field Mapping :

Table Fields	Import Fields
Student Number	Student Number
Student Name	Student Name
Gender	Gender
Class	Class

Preview Data :

Student Number	Student Name	Gender	Class	Class Number	Next Year Class	Rank	Num of Electives
046436	CHAN XXX HO	F	3A	1		1	3
146436	CHAN XXX HO	F	3A	2		2	3
042632	CHAN XXX MAN	F	3A	3		8	3
089328	CHAN XXX TAT	M	3A	4		7	3
001094	CHAN XXX TING	F	3A	5		10	3
030957	CHAN XXX TING	M	3A	6		9	3
054686	CHAN XXX WAH	M	3A	7		11	3
046236	CHEUNG XXX ...	F	3A	8		12	3
023582	CHIU XXX MING	M	3A	9		13	3

< Back Validate Cancel

2. Student Particulars

File Operation Preparation Preference Time Block Subject Allocation Time-table Report Access Control

New Save Delete Find Student Import From File Import From WebSAMS Student Academic Result Export

Student Particulars

Student Number **Student Name**

Class **Rank***

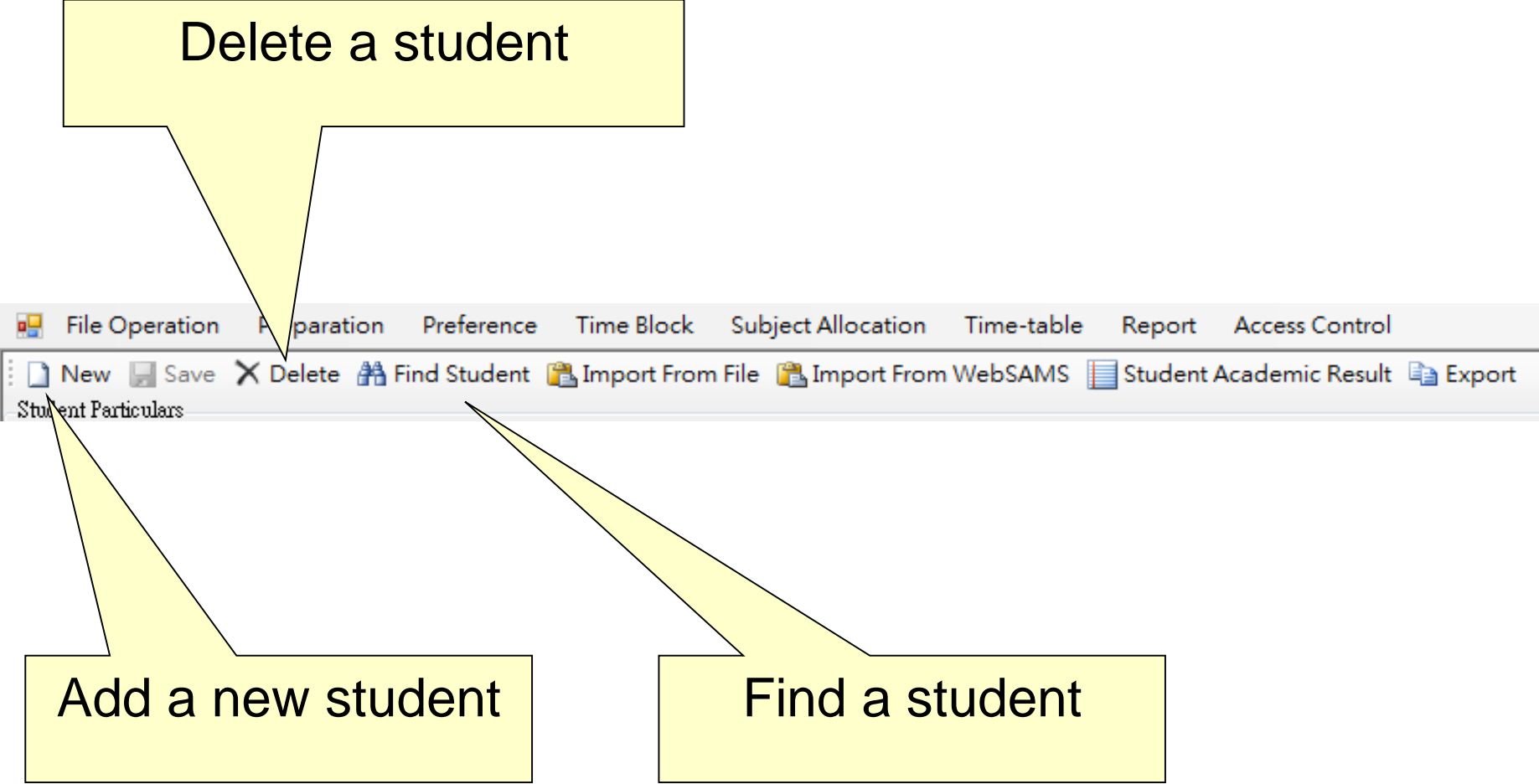
Class Number **Next Year Class**

Gender Male Female **Number of electives**

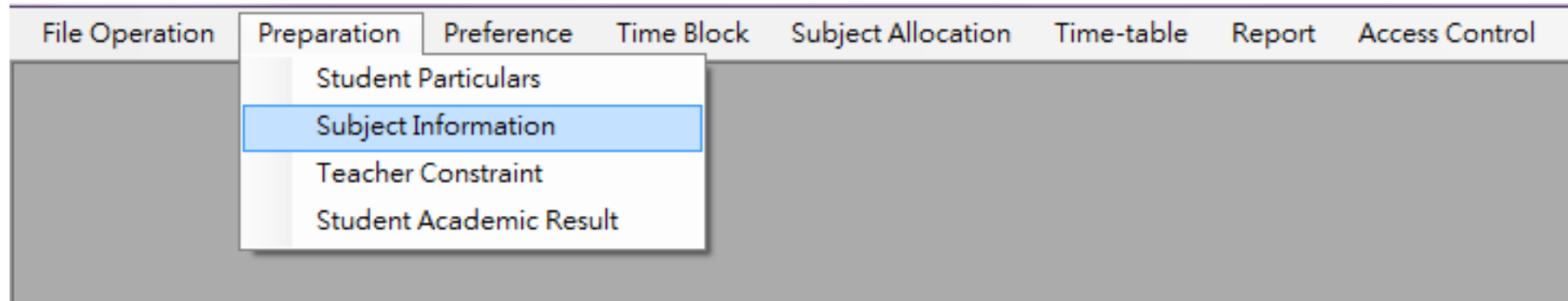
* The allocation order in 'Allocate subjects to students'

Student Number	Student Name	Gender	Class	Class Number	Next Year Class	Rank	Number of Electives
001094	CHAN XXX TING	F	3A	5		10	3
004869	KONG XXX PING	F	3A	14		18	3
005897	PAU XXX YIN	F	3A	26		38	3
008405	LEE XXX MING	M	3A	17		23	3
009275	WONG XXX TING	M	3A	35		63	3

2. Student Particulars



3. Subject Information



3. Subject Information

File Operation Preparation Preference Time Block Subject Allocation Time-table Report Access Control Help

Save Import From File Import From WebSAMS Export

Short Name	Subject	中文 - 粵語	English	中文 - 普通話	Other Language
生物	生物	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
化學	化學	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
物理	物理	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
文學	中國文學	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
英學	英語文學	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
中史	中國歷史	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
經濟	經濟	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
宗教	倫理與宗教	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
地理	地理	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
歷史	歷史	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
旅遊	旅遊與款待	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
企業	企業、會計與財務概論	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
設計	設計與應用科技	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
健社	健康管理與社會關懷	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
資訊	資訊及通訊科技	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total number of record(s) 43 Total number of offered subject(s) 0

Edit (School-based subject only)

Short Name (1) Subject (1)

Short Name (2) Subject (2)

Short Name (3) Subject (3)

Short Name (9) Subject (9)

*MOI - 1=中文(粵語), 2=English, 3=中文(普通話), 9=其他

Science subject - setup your option of science subject making reference to the forworded commission of science subjects

Two Science Subjects - student could select two science subjects that school have offered with one option

User: admin Database: C:\Users\ritatckuo\Documents\workshop.accde

3. Subject Information

生物 + 化學
生物 + 物理
化學 + 物理

Choices of “Two Science Subjects”

3. Subject Information

校本01	校本科目01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本02	校本科目02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本03	校本科目03	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本04	校本科目04	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本05	校本科目05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本06	校本科目06	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

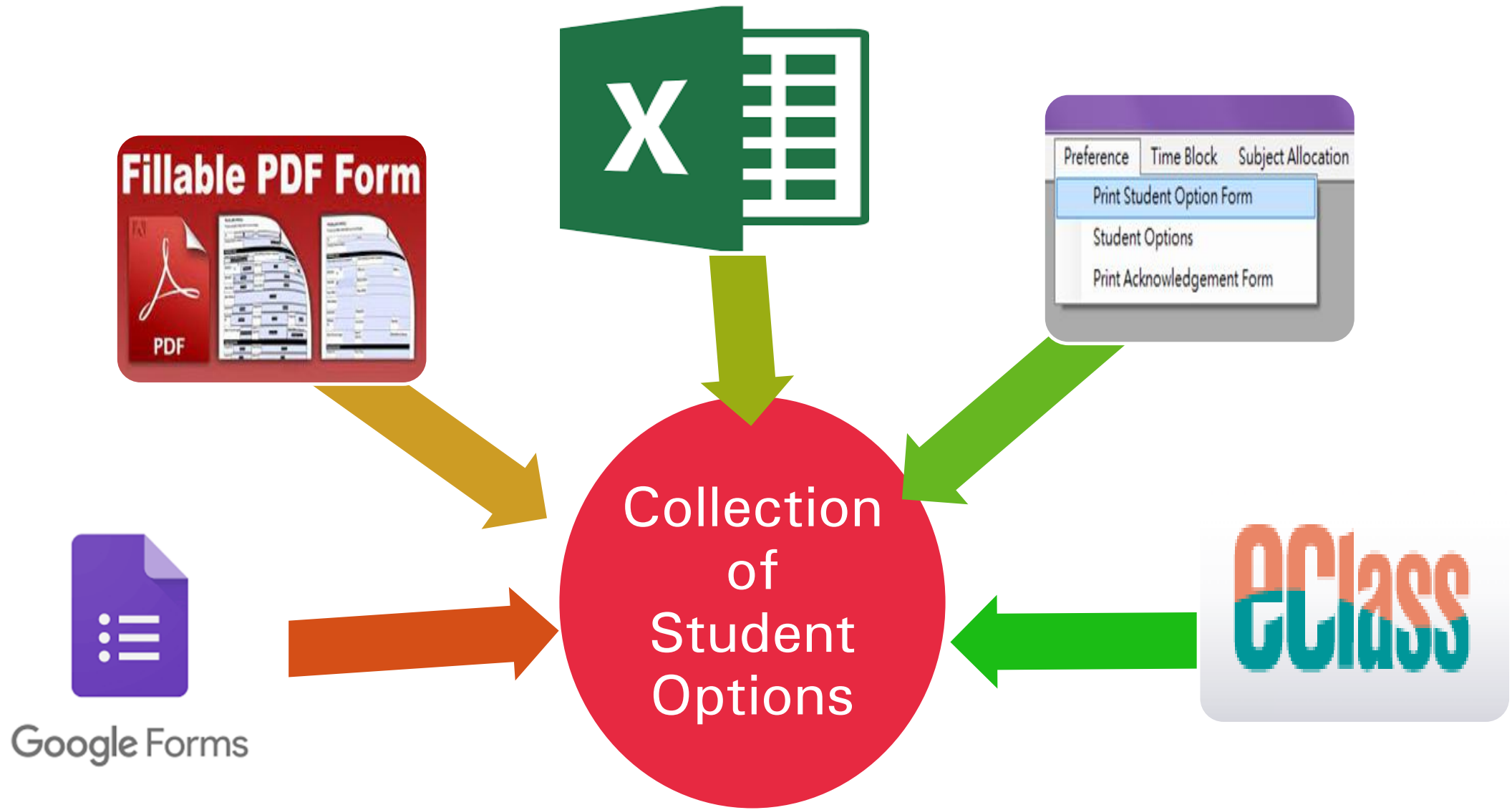
Total number of record(s) Total number of offered subject(s)

Edit (School-based subject only)

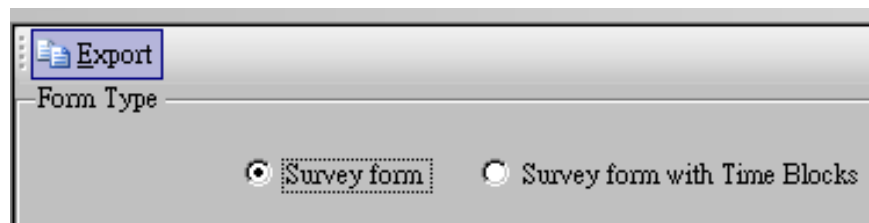
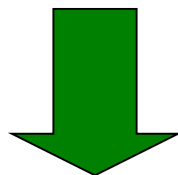
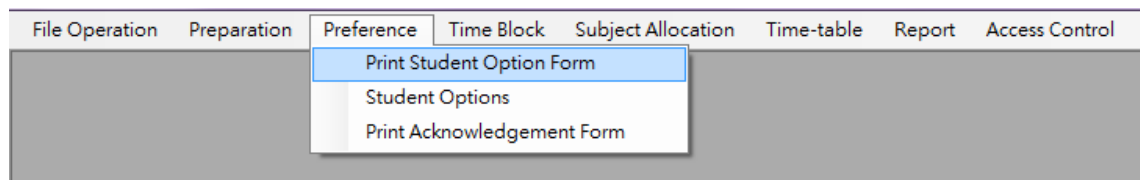
Short Name (1)	<input type="text" value="校本01"/>	Subject (1)	<input type="text" value="校本科目01"/>
Short Name (2)	<input type="text" value="SB01"/>	Subject (2)	<input type="text" value="School Based Subject 01"/>
Short Name (3)	<input type="text" value="校本01*"/>	Subject (3)	<input type="text" value="校本科目01 (普通話)"/>
Short Name (9)	<input type="text" value="SB01*"/>	Subject (9)	<input type="text" value="School Based Subject 01 (other language)"/>

*MOI - 1=中文(粵語), 2=English, 3=中文(普通話), 9=其他

4. Collection of Student Options



4. Collection of Student Options



S4 Student Option Form

A student should fill numbers in this form indicating his/her order of preference. ("1" means the elective subject that he/she likes best.) If a student wants to study 2 science subjects, he/she should write the order of preference in the "Two Science Subjects" of the table on the left, and fill in the order of preference of the 2 science subjects in the table on the right. If the 2 science subjects cannot be allocated due to shortage of places or whatsoever reason, the school will allocate 1 science subject to the student in accordance with his/ her options in the table on the right.

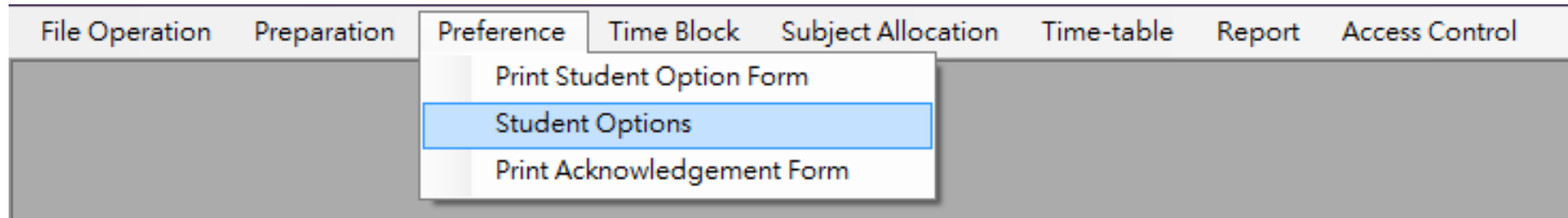
Selected Option	
Offer	Order
Two Science Subjects	
生物	
化學	
物理	
文學	
中文	
經濟	
地理	
歷史	
企業	
設計	
體社	
資訊	

Order of two science subjects (Input order of two science subjects only when a student has chosen 2 science subjects in his/her selected option.)	
Offer	Order
生物 + 化學	
生物 + 物理	
化學 + 物理	
生物	
化學	
物理	

Student Name: _____ Class: _____ Class No.: _____
Parent's Signature: _____ Parent's Name: _____ Date: _____

(Please return the completed S4 Student Option Form to the class teacher on or before (date).)

5. Input Student Options



5. Input Student Options

Student Option Detail

Student Number Student Name Number of Electives

Input order of two science subjects only when a student has chosen 2 science subjects in his selected option

Order of two science subjects

Student Number	Student Name	Class	Number of Electives	Two Science Subject 兩科理科科目	生物	化學
0000001094	CHAN XXX TING	3A	3		2	1
0000004869	KONG XXX PING	3A	3	3		
0000005897	PAU XXX YIN	3A	3		3	
0000008405	LEE XXX MING	3A	3	3		
0000009275	WONG XXX TING	3A	3	1		
0000009789	LAI XXX SUM	3A	3			1

Total no. of Students:

5. Input Student Options

	A	B	C	D	E	F
1	Student Number	Student Name	2Sci	BIO2	CHEM2	PHY2
2	3A01	stud001	7	5	2	1
3	3A02	stud002	2	9	8	10
4	3A03	stud003		1	2	5
5	3A04	stud004		8	7	
6	3A05	stud005		6	3	5
7	3A06	stud006		7	1	6
8	3A07	stud007		5	3	6
9	3A08	stud008	10	1	3	5
10	3A09	stud009		6	1	2
11	3A10	stud010		10	8	3
12	3A11	stud011		1	2	3
13	3A12	stud012	10	2	1	4

5. Input Student Options

Student Number Student Name Number of Electives

Input order of two science subjects only when a student has chosen 2 science subjects in his selected option

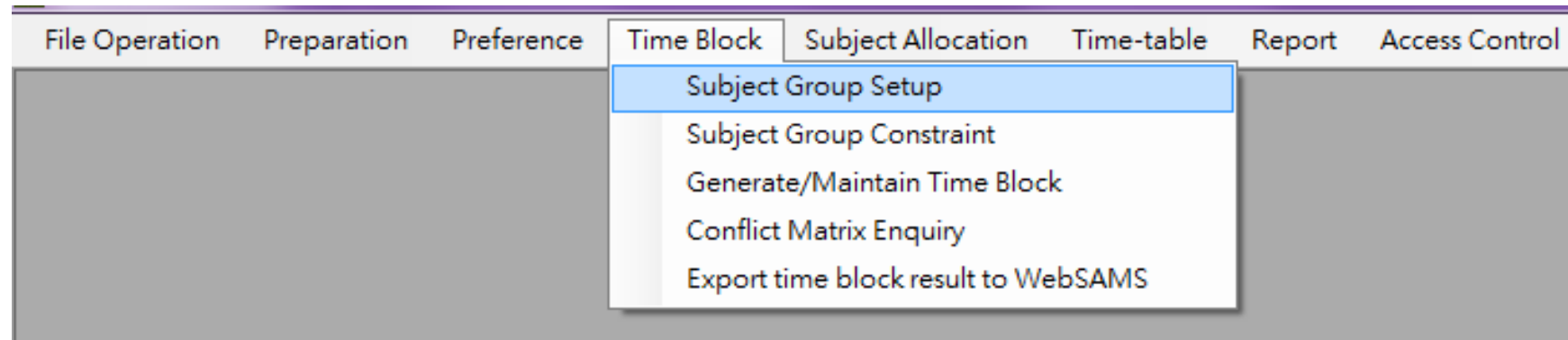
Option	Order
Two Science Subjects 兩理科科目	1
生物	
化學	2
物理	
文學	
中央	
經濟	3
地理	5
歷史	
企業	4

Order of two science subjects

Offer	Order
生物 + 化學	
生物 + 物理	
化學 + 物理	
生物	2
化學	1
物理	

Student Number	Student Name	Class	Class Number	Next Year Class	Number of Electives	Two Sc
026621	CHAN TAI MAN	3B	8		3	

6. Setup Subject Group & Constraints



6. Setup Subject Group & Constraints

Subject	Max Size	No. of Groups	NOR*	1	2	3	4	5	6	Total
生物	40	2	36	3	15	17	13	17	21	86
化學	40	2	36	15	7	16	11	14	23	86
物理	40	2	33	12	5	17	16	18	12	80
文學	40	1	66	24	19	23	18	23	11	118
中史	40	1	11	2	4	5	10	13	13	47
經濟	40	2	73	29	32	11	25	19	17	133
地理	40	1	79	30	31	18	24	24	22	149
歷史	40	1	69	21	25	23	23	13	27	132
企業	40	2	91	30	32	28	19	13	27	149
設計	40	1	17	1	8	8	14	6	7	44
健社	40	1	22	8	2	12	11	17	8	58
資訊	40	2	67	25	20	22	16	23	11	117

Subject Group Setup - NOR

Option	Order
Two Science Subjects 兩科理科科目	1
生物	2
化學	3
物理	
文學	4

Offer	Order
生物 + 化學	1
生物 + 物理	3
化學 + 物理	
生物	
化學	
物理	

- The best allocation result of this student should be “生物”, “化學” and “文學”

Subject	Max Size	No. of Groups	NOR*	1	2	3	4	Total
生物	40	0	1	1	1	0	0	2
化學	40	0	1	1	0	1	0	2
物理	40	0	0	0	0	0	0	0
文學	40	0	1	0	0	0	1	1

6. Setup Subject Group & Constraints

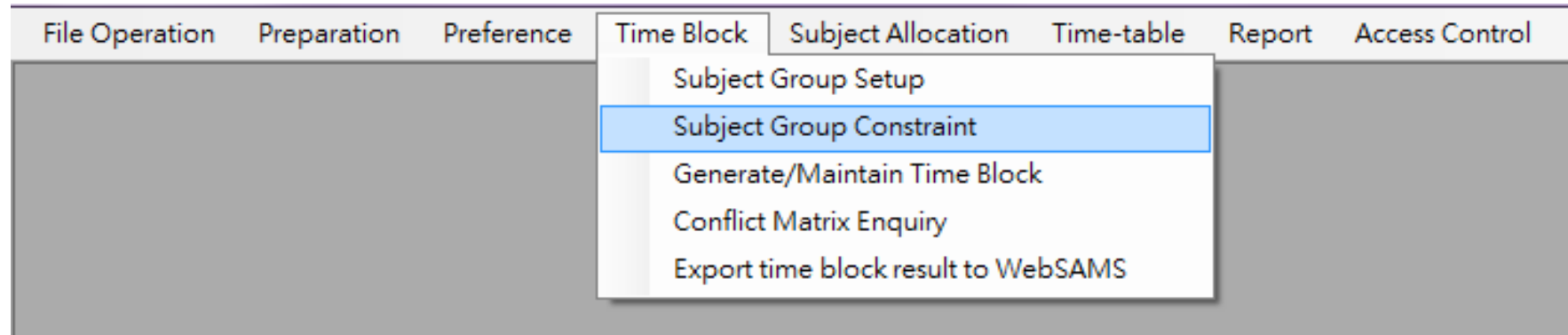
Number of subject groups in each Time Block	
Block	No. of Groups
1	6
2	6
3	6

Total number of blocks

Total number of groups

*** Remarks: the Sum of Number of Groups r

6. Setup Subject Group & Constraints



6. Setup Subject Group & Constraints

Please select TWO subject groups and click either 'Same Time Block' or 'Different Time Blocks'. Click 'Save' when completed.

Subject	Select
生物 組別 1	<input type="checkbox"/>
生物 組別 2	<input type="checkbox"/>
化學 組別 1	<input type="checkbox"/>
化學 組別 2	<input type="checkbox"/>
物理 組別 1	<input type="checkbox"/>
物理 組別 2	<input type="checkbox"/>
文學	<input type="checkbox"/>
中央	<input type="checkbox"/>
經濟 組別 1	<input type="checkbox"/>
經濟 組別 2	<input type="checkbox"/>
地理	<input type="checkbox"/>
歷史	<input checked="" type="checkbox"/>
企業 組別 1	<input type="checkbox"/>
企業 組別 2	<input type="checkbox"/>
設計	<input type="checkbox"/>
健社	<input type="checkbox"/>
體育 組別 1	<input type="checkbox"/>
體育 組別 2	<input type="checkbox"/>

Buttons: Same Time Block, Different Time Blocks, Clear

Subject group constraint list

Subject Groups	Action	Remove
文學, 中央	Difference	<input type="button" value="X"/>
地理, 歷史	Same	<input type="button" value="X"/>

Save Export

Please select TWO subject groups and click either 'Same Time Block' or 'Different Time Blocks'. Click 'Save' when completed.

Subject	Select
生物 組別 1	<input type="checkbox"/>
生物 組別 2	<input type="checkbox"/>
化學 組別 1	<input type="checkbox"/>
化學 組別 2	<input type="checkbox"/>
物理 組別 1	<input type="checkbox"/>
物理 組別 2	<input type="checkbox"/>
文學	<input type="checkbox"/>
中史	<input type="checkbox"/>
經濟 組別 1	<input type="checkbox"/>
經濟 組別 2	<input type="checkbox"/>
地理	<input type="checkbox"/>
歷史	<input checked="" type="checkbox"/>
企業 組別 1	<input type="checkbox"/>
企業 組別 2	<input type="checkbox"/>
設計	<input type="checkbox"/>
健社	<input type="checkbox"/>
資訊 組別 1	<input type="checkbox"/>

Same Time Block

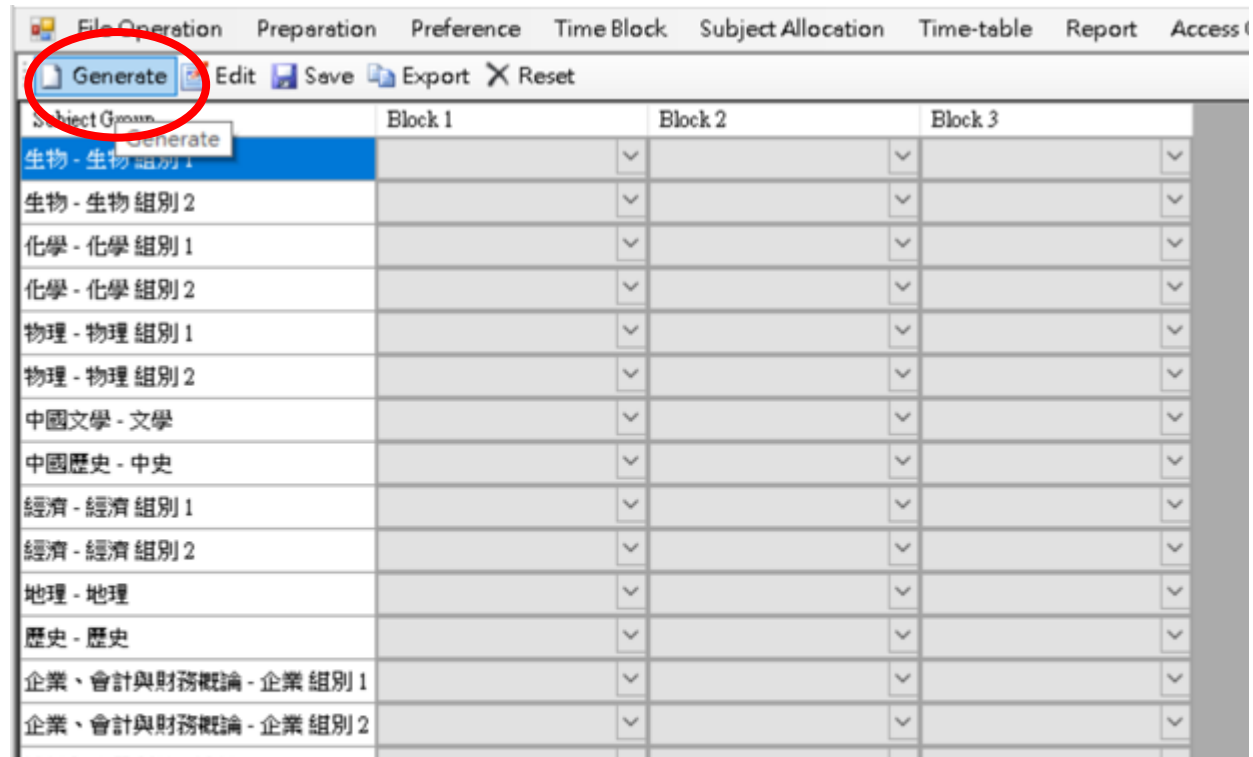
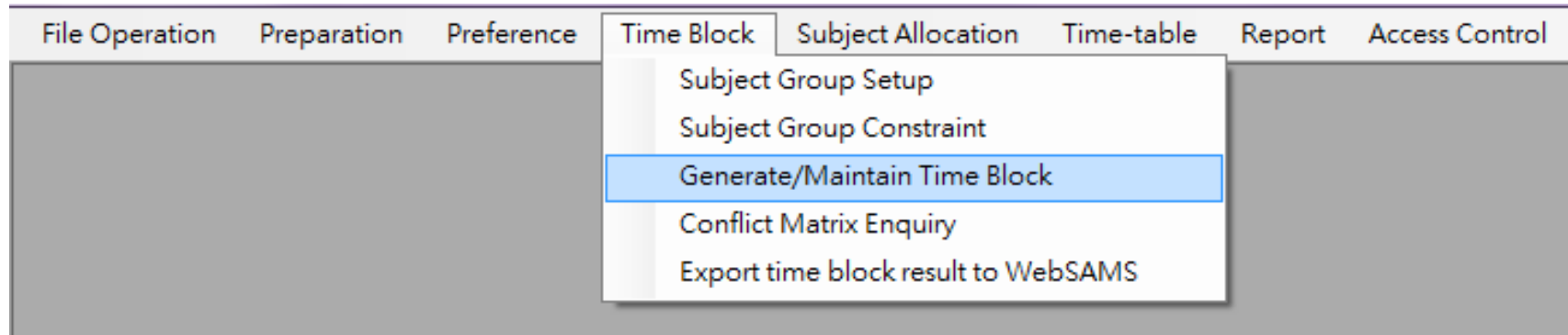
Different Time Blocks

Clear

Subject group constraint list

Subject Groups	Action	Remove
文學, 中史	Difference	<input checked="" type="checkbox"/>
地理, 歷史	Same	<input checked="" type="checkbox"/>

7. Generate and Maintain Time Block

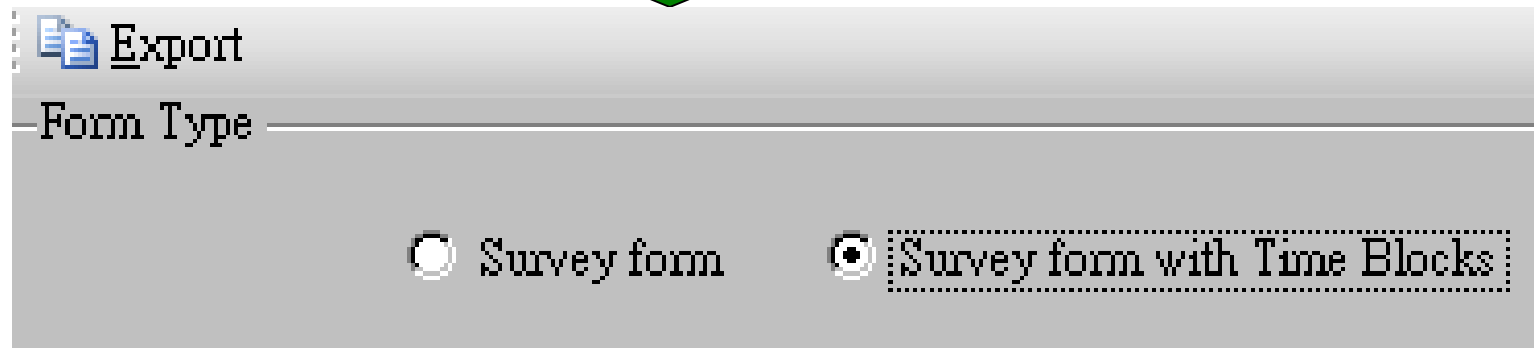
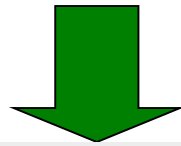
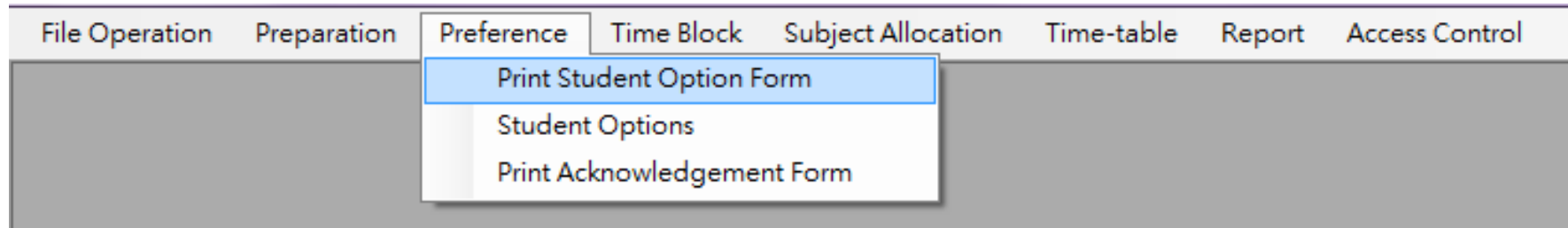


7. Generate and Maintain Time Block

Subject Group	Block 1	Block 2	Block 3
生物 - 生物 組別 1	生物 組別 1		
生物 - 生物 組別 2		生物 組別 2	
化學 - 化學 組別 1			化學 組別 1
化學 - 化學 組別 2	化學 組別 2		
物理 - 物理 組別 1		物理 組別 1	
物理 - 物理 組別 2	物理 組別 2		
中國文學 - 文學		文學	
中國歷史 - 中史	中史		
經濟 - 經濟 組別 1		經濟 組別 1	
經濟 - 經濟 組別 2			經濟 組別 2
地理 - 地理			地理
歷史 - 歷史			歷史
企業、會計與財務概論 - 企業 組別 1	企業 組別 1		
企業、會計與財務概論 - 企業 組別 2		企業 組別 2	
設計與應用科技 - 設計		設計	
			健社
			資訊 組別 2

Count_Description	Block 1	Block 2	Block 3
Max number of subject groups	6	6	6
Number of subject groups assigned	6	6	6

8. Distribute Student Option Form



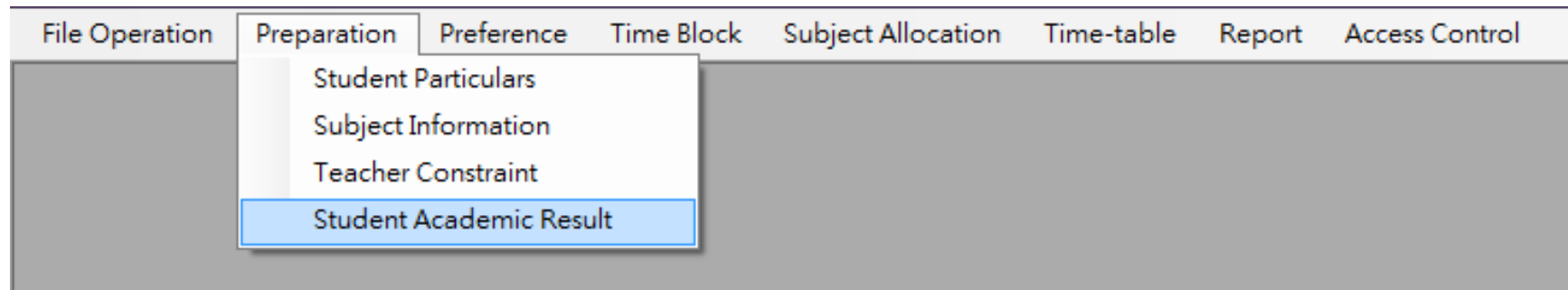
8. Distribute Student Option Form

Choice of Elective Subjects of S4

Based on the results of the survey on elective subjects conducted among S3 students and the school's resources, this school is going to offer x elective subjects, which are arranged in the following 3 blocks, for students' choices in the next school year. A student will study x to y elective subjects. This school will allocate one subject from each block depending on the number of elective subjects that a student is going to study.

	Block 1	Block 2	Block 3
生物	生物 組別 1	生物 組別 2	
化學	化學 組別 2		化學 組別 1
物理	物理 組別 2	物理 組別 1	
文學		文學	
中史	中史		
經濟		經濟 組別 1	經濟 組別 2
地理			地理
歷史			歷史
企業	企業 組別 1	企業 組別 2	
設計		設計	
健社			健社
資訊	資訊 組別 1		資訊 組別 2

10. Prepare Student Academic Results

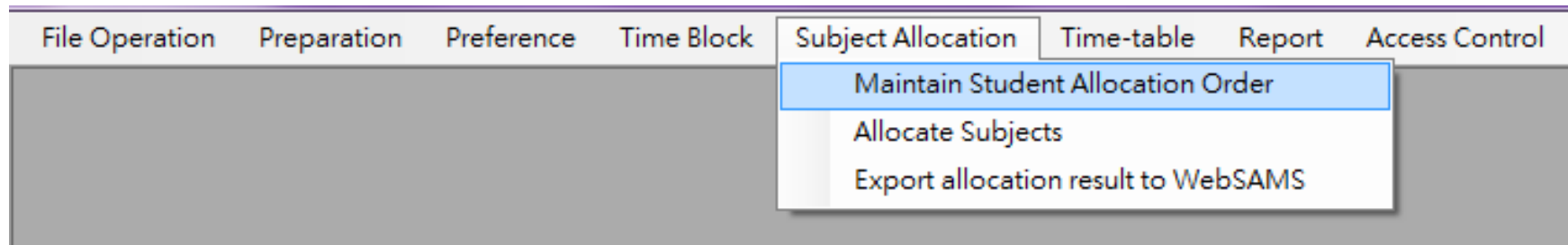


10. Prepare Student Academic Results



	Student Number	Name	Class	Chi	Eng	Math
1	0000046436	CHAN XXX HO	3A	59.00	77.00	47.00
2	0000146436	CHAN XXX HO	3A	72.00	26.00	56.00
3	0000042632	CHAN XXX MAN	3A	63.00	67.00	39.00
4	0000089328	CHAN XXX TAT	3A	23.00	76.00	4.00
5	0000030957	CHAN XXX TING	3A	12.00	5.00	10.00
6	0000001094	CHAN XXX TING	3A	52.00	12.00	89.00
7	0000054686	CHAN XXX WAH	3A	63.00	91.00	83.00
8	0000046236	CHEUNG XXX WO	3A	24.00	35.00	73.00
9	0000023582	CHIU XXX MING	3A	30.00	80.00	31.00
10	0000047689	CHOW XXX WING	3A	5.00	5.00	32.00
11	0000067829	HO XXX HEI	3A	0.00	52.00	67.00
12	0000046729	HO XXX LUNG	3A	4.00	58.00	54.00

11. Maintain Student Allocation Order



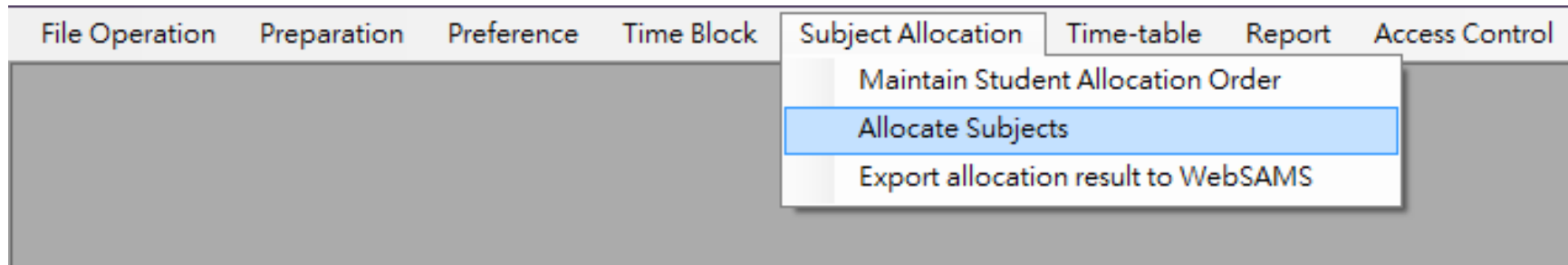
11. Maintain Student Allocation Order

The screenshot shows a software application window with a menu bar and a toolbar. The 'Generate by Rank' button in the toolbar is circled in red. Below the toolbar is a table with the following data:

Student Code	Class	Student Name	Rank	Allocation Order
0000384764	3C	MA XXX FUNG	29	
0000484764	3D	MA XXX FUNG	30	
0000584764	3E	MA XXX FUNG	31	
0000092875	3A	NG XXX MAN	31	
0000192875	3A	NG XXX MAN	33	
0000292875	3B	NG XXX MAN		
0000392875	3C	NG XXX MAN		
0000492875	3D	NG XXX MAN		
0000592875	3E	NG XXX MAN		

A dialog box titled 'SOP' is overlaid on the table, displaying a warning icon and the message: 'Allocation Order cannot be duplicated.' The dialog box has a '確定' (OK) button at the bottom right.

12. Allocate Subjects to Students



12. Allocate Subjects to Students

Generate Allocation Result X Clear Allocation Result Find Student Student Academic Result

Import Export Print Preview

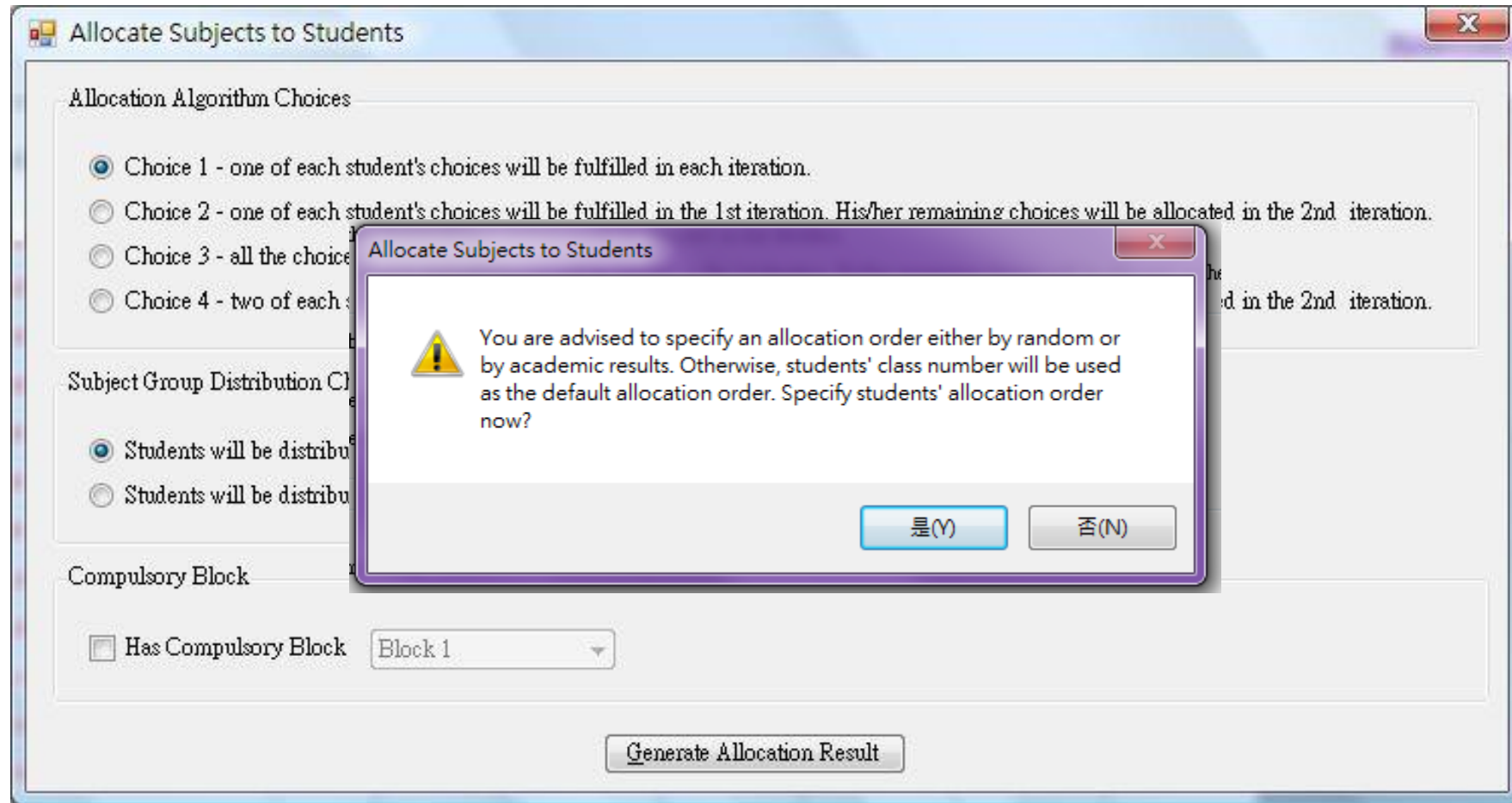
Selected Student

Student Number Student Name Rank Allow

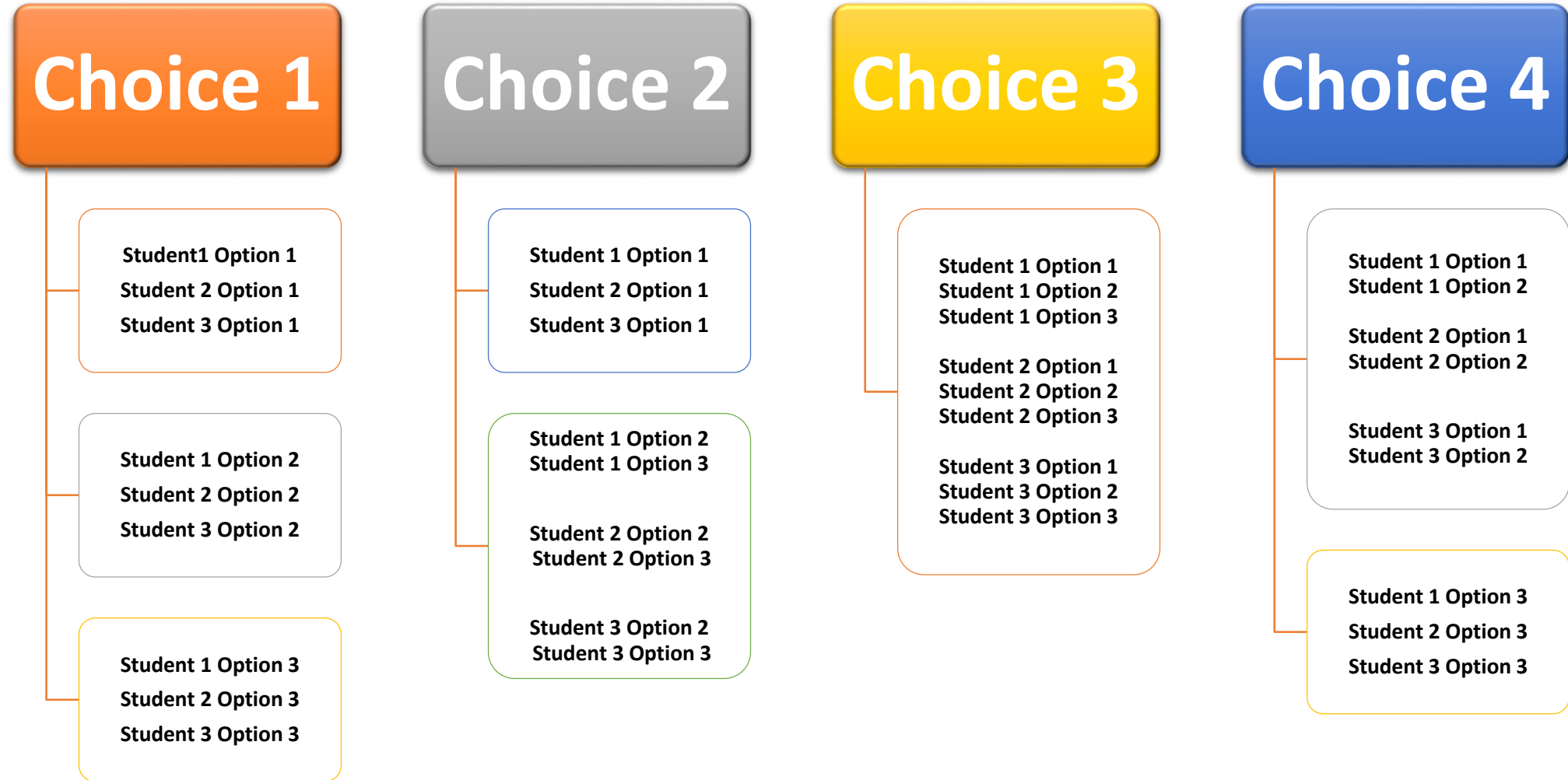
All Students Students' Preference Students Allocated to Subject Group

<input checked="" type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1
<input checked="" type="checkbox"/>	3A01	3A	1	stud001	12	12	3	0	
<input checked="" type="checkbox"/>	3A02	3A	2	stud002	16	16	3	0	
<input checked="" type="checkbox"/>	3A03	3A	3	stud003	9	9	3	0	
<input checked="" type="checkbox"/>	3A04	3A	4	stud004	25	25	3	0	
<input checked="" type="checkbox"/>	3A05	3A	5	stud005	10	10	3	0	
<input checked="" type="checkbox"/>	3A06	3A	6	stud006	4	4	3	0	

12. Allocate Subjects to Students



12. Allocate Subjects to Students



12. Allocate Subjects to Students

Students	Students' Preference	Students Allocated to Subject Group
----------	----------------------	-------------------------------------

<input checked="" type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
<input checked="" type="checkbox"/>	3E03	3E	3	stud159	79	79	3	3	PHY (1)	BIO (3)	CHIS (2)
<input checked="" type="checkbox"/>	3E04	3E	4	stud160	119	119	3	3	VA (1)	THS (2)	P&B (3)
<input checked="" type="checkbox"/>	3E05	3E	5	stud161	22	22	3	3	ECON (2)	ICT (4)	PHY (1)
<input checked="" type="checkbox"/>	3E06	3E	6	stud162	76	76	3	3	BIO (1)	CHEM (2)	PHY (3)
<input checked="" type="checkbox"/>	3E07	3E	7	stud163	177	177	3	2	CHEM (1)		P&B (2)
<input checked="" type="checkbox"/>	3E08	3E	8	stud164	69	69	3	3	PHY (1)	CHEM (2)	GEO (3)
<input checked="" type="checkbox"/>	3E09	3E	9	stud165	73	73	3	3	CHEM (1)	BIO (3)	CHIS (2)
<input checked="" type="checkbox"/>	3E10	3E	10	stud166	99	99	3	3	CHEM (1)	BIO (3)	PHY (2)
<input checked="" type="checkbox"/>	3E11	3E	11	stud167	88	88	3	3	BIO (1)	CHEM (2)	PHY (2)

12. Allocate Subjects to Students

Subject	Priority	Sub-priority	Block 1	Block 2	Block 3
生物	5	1	32/40	21/40	
化學	5	2	24/40		21/40
物理	5	3	23/40	23/40	
中國文學	3			40/40	
中國歷史			40/40		
經濟	2			40/40	39/40
地理					37/40
歷史	4				39/40
企業、會計與財務概論			40/40	40/40	
設計與應用科技				29/40	
健康管理與社會關懷					25/40
資訊及通訊科技	1		40/40		38/40
			199/240	193/240	199/240

12. Allocate Subjects to Students

All Students Students' Preference **Students Allocated to Subject Group**

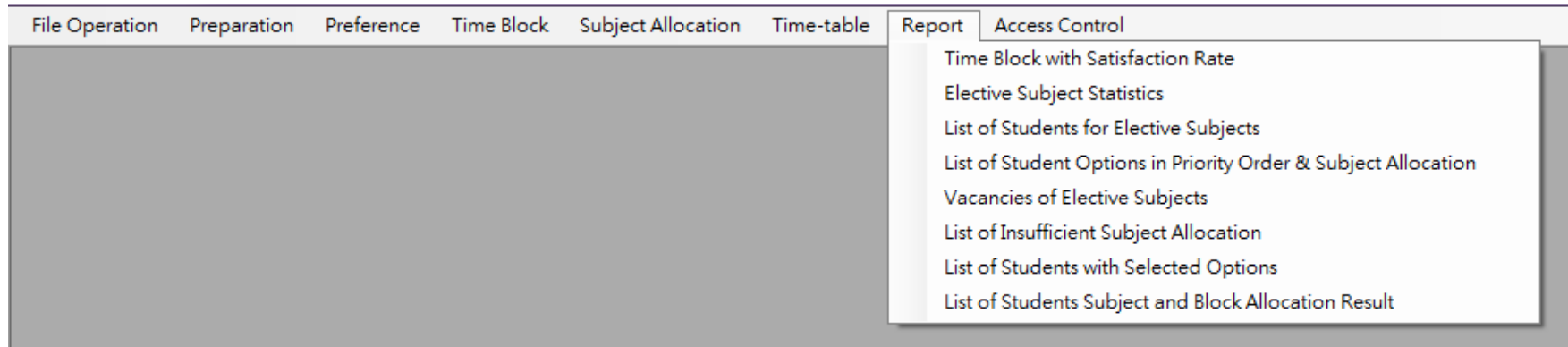
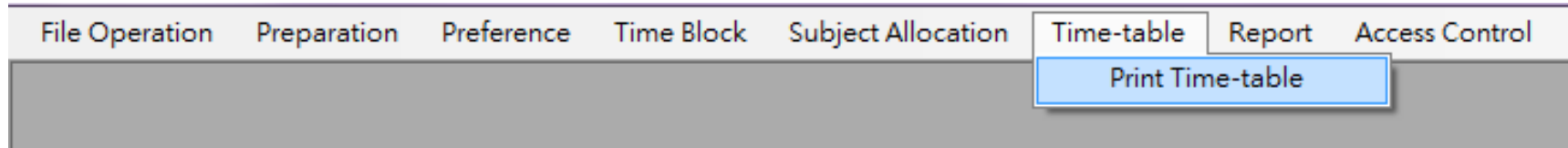
Subject Group

Subject	Block	Availability
生物	Block 1	32/40
生物	Block 2	21/40
化學	Block 1	24/40
化學	Block 3	21/40
物理	Block 1	23/40
物理	Block 2	23/40
中國文學	Block 2	40/40
中國歷史	Block 1	40/40
經濟	Block 2	40/40

Students Allocated to Selected Subject Group

Student	Priority	Sub-Priority
3A CHAN XXX MAN (042632)	2	1
3A CHAN XXX TING (001094)	2	
3A CHAN XXX WAH (054686)	2	
3A IP XXX KIT (014535)	1	
3A LEE XXX MING (008405)	3	1
3A PAU XXX YIN (005897)	3	
3A WONG XXX LOK (198678)	1	3
3B CHAN XXX TING (089479)	2	

13. Timetable & Reports



Report ID: RPT008

Student Option Programme

Date: 26

List of Students Subject and Block Allocation Result

Page: 1/

Student Number	Student Name	Class	Class Number	Next Year Class	Block 1	Block 2	Block 3
001094	CHAN XXX TING	3A	5		生物	經濟	化學
004869	KONG XXX PING	3A	14		資訊	企業	化學
005897	PAU XXX YIN	3A	26		生物	設計	歷史
008405	LEE XXX MING	3A	17		生物	文學	地理
009275	WONG XXX TING	3A	35		中史	企業	化學
009789	LAI XXX SUM	3A	15		化學	經濟	健社
014535	IP XXX KIT	3A	13		生物	文學	經濟
023582	CHIU XXX MING	3A	9		資訊	文學	經濟
030957	CHAN XXX TING	3A	6		化學	企業	健社
032897	LI XXX YIP	3A	20		化學	企業	健社
042632	CHAN XXX MAN	3A	3		生物	文學	健社
043987	LEE XXX YIP	3A	19		化學	企業	健社
046236	CHEUNG XXX WO	3A	8		資訊	物理	化學
046436	CHAN XXX HO	3A	1		資訊	文學	地理

Report ID: RPT004

Student Option Programme

Date: 11/05/2023

List of Student Options in Priority Order and Subject Allocation

Page: 1/7

Stn No.	Name	Class	Class Number	Rank	Option 01	Option 02	Option 03	Option 04	Option 05	Option 06	Sci 01	Sci 02	Sci 03
001094	CHAN XXX TING	3A	5	10	化學	生物	經濟	文學	中史	歷史			
004869	KONG XXX PING	3A	14	18	資訊	企業		設計	文學	地理			
005897	PAU XXX YIN	3A	26	38	歷史	設計	生物	地理	經濟	企業			
008405	LEE XXX MING	3A	17	23	文學	地理		健社	資訊	企業			
009275	WONG XXX TING	3A	35	63	Two Science Subjects 兩科理科科目	中史	資訊	企業	文學	地理			
009789	LAI XXX SUM	3A	15	19	化學	健社	歷史	地理	經濟	企業			
009872	CHOW XXX WING	3B	11	89	Two Science Subjects 兩科理科科目	生物	歷史	文學	經濟	資訊			
012435	CHEUNG XXX WO	3C	8	117	經濟	資訊	化學	歷史	文學	設計			
013412	NG XXX MAN	3E	24	192	企業	經濟	設計	歷史	地理	物理			

Satisfaction Rate

No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3	
3	3	生物 (1)	化學 (2)	物理 (3)	100%
2	2	生物 (1)	化學 (2)		100%
3	3	生物 (1)	中央 (4)	物理 (3)	66.7%
2	2	生物 (1)		物理 (3)	50%

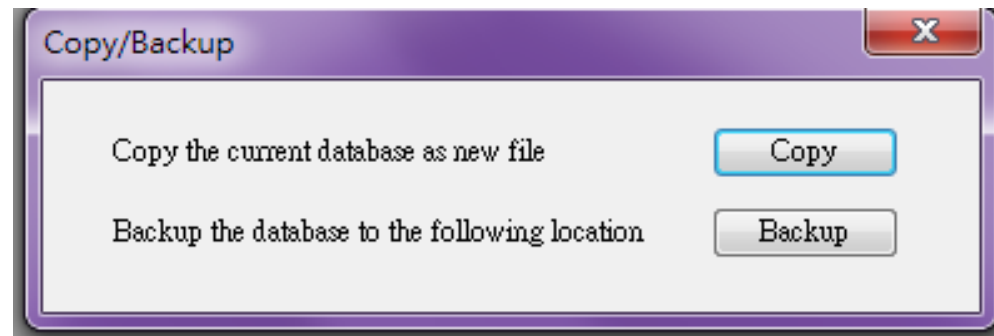
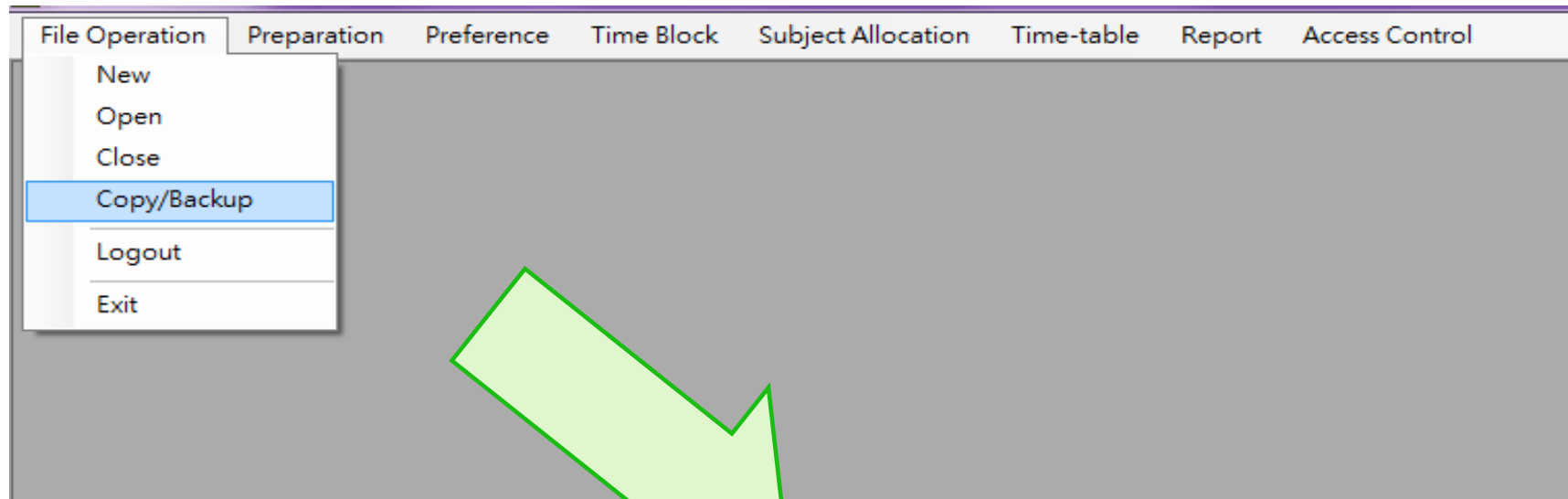
Overall Satisfaction Rate

$$= (100\% + 100\% + 66.7\% + 50\%) / 4 = \mathbf{79.2\%}$$

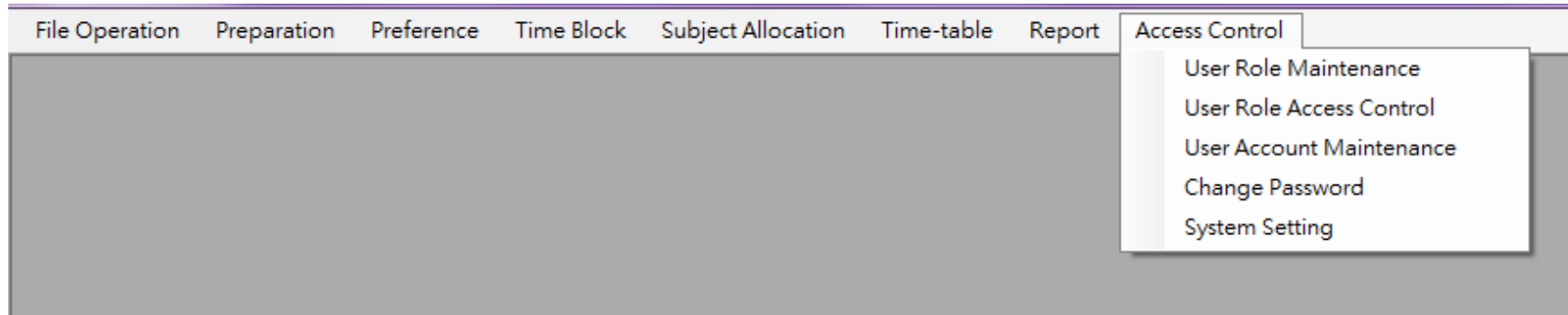
Other Functions

SOP

Copy/Backup



Access Control

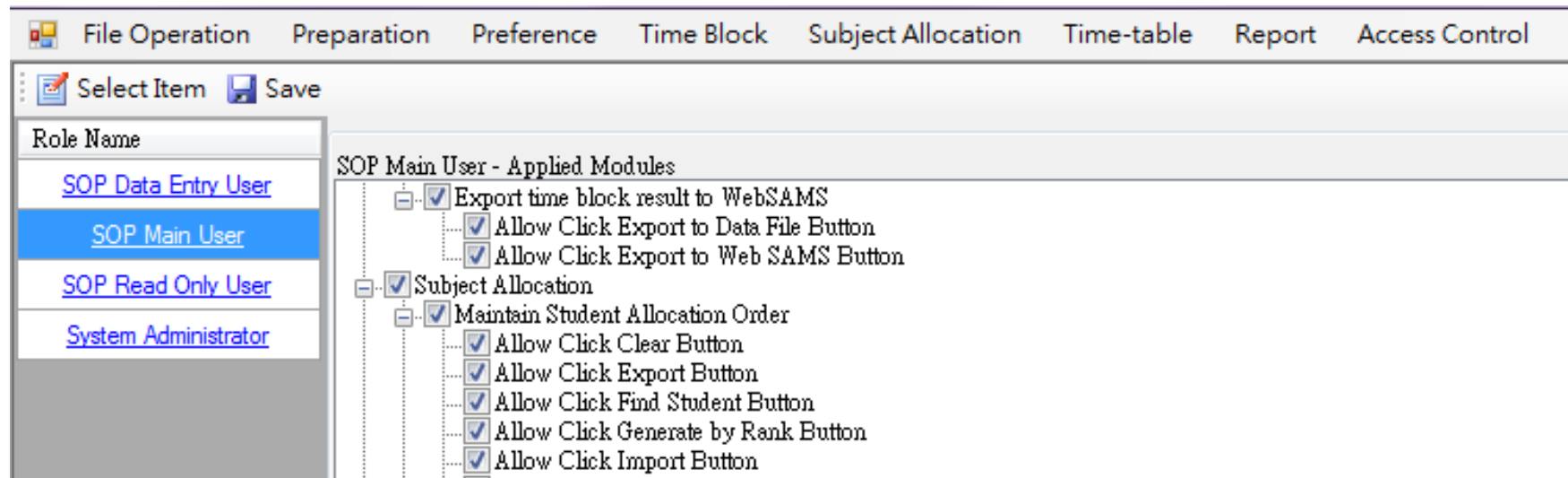


User Role Maintenance

The screenshot displays a software application window for 'User Role Maintenance'. The window features a menu bar at the top with the following options: File Operation, Preparation, Preference, Time Block, Subject Allocation, Time-table, Report, and Access Control. Below the menu bar is a toolbar containing icons for 'New', 'Select Item', 'Save', and 'Delete'. On the left side, there is a list of user roles: 'User Roles', 'SOP Data Entry User', 'SOP Main User', 'SOP Read Only User', and 'System Administrator'. The 'System Administrator' role is currently selected and highlighted in blue. The main area of the window is divided into two sections. The top section contains three input fields: 'Role ID' with the value 'SysAdmin', 'Role Name' with the value 'System Administrator', and 'Description' which is currently empty.

Role ID	Role Name	Description
SysAdmin	System Administrator	

User Role Access Control



User Account Maintenance

File Operation Preparation Preference Time Block Subject Allocation Time-table Report Access Control

New Select Item Save Delete

User ID: Role: SOP Data Entry User
 SOP Main User
 SOP Read Only User
 System Administrator

User Name:

Last Login Time: -

Active

User ID	User Name
USER0001	System Administration
USER0002	Main User1
USER0003	Main User2
USER0004	Main User3
USER0005	Read-only User1
USER0006	Read-only User2
USER0007	Read-only User3
sysadmin	System Administrator

Hands-on practice

SOP Hands-on Practice_2023 - PowerPoint

Education Bureau
The Government of the Hong Kong Special Administrative Region

Physics
 Chemistry
 中國歷史

Hands-on Practice

Please allocate elective subjects to students according to the following steps

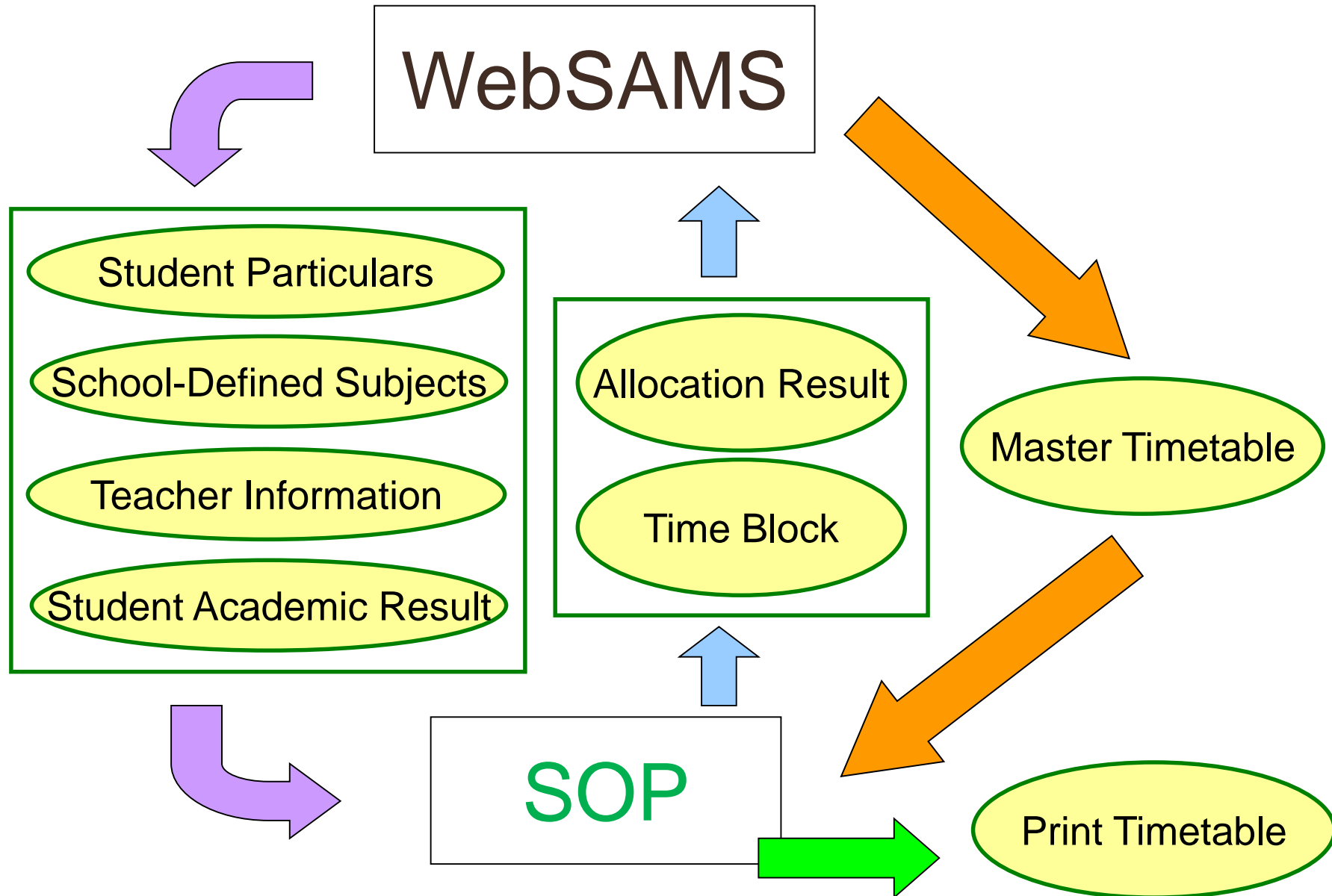
Navigation pane:

- Cover
- Preparation
 - 1. Getting ready for the practice
 - 2. ...
 - 3. ...
 - 4. ...
 - 5. ...
- Open Database
 - 6. Creating the database

Projection: 1 / 112 | Language: 英文 (英國) | Zoom: 131%

WebSAMS

SOP



WebSAMS

[S-DAT11-01] [Data Management](#) > [Extract for SOP](#)

Extract for SOP

Please input the extract criteria.

School Year

School Level

School Session

Class Level

Extract Option

- Student Particulars
- Student Academic Result
- School-Defined Subjects (Whole School)
- Teacher Information (Whole School)
- Master Timetable (2023 Secondary 4)

Data Set with Final Result Set

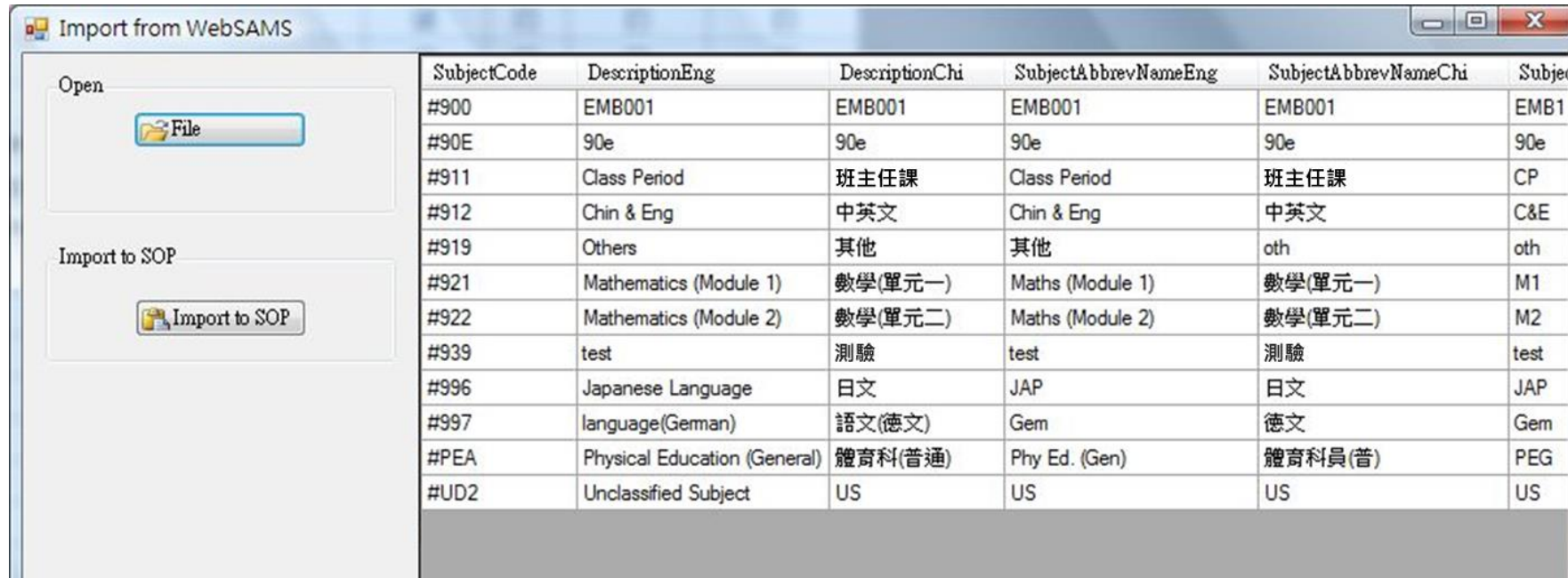
Extract

Student Particulars

The screenshot shows a software window titled "Import Student from WebSAMS". On the left, there is a control panel with an "Open" section containing a "File" button, and an "Import to SOP" section. The "Import to SOP" section includes a "SOP Student Rank" dropdown menu set to "1", a "SOP Name" section with radio buttons for "Chinese Name" (selected) and "English Name", and an "Import to SOP" button. The main area is a table with the following columns: RegNo, EngName, ChiName, Gender, ClassName, ClassNumber, and NextYearClassName. The table contains 20 rows of student data.

RegNo	EngName	ChiName	Gender	ClassName	ClassNumber	NextYearClassName
#45454RRR	CH	陳	M	3A		4A
#2005002	CH	陳	M	3A		4A
#1234ASD14	CH	陳	M	3A		4A
#2007001	CH	陳	M	3A		4A
#2006005	LAI	林	F	3A		4A
#2006006	LAI	林	M	3A		4A
#2006007	LAI	林	F	3A		4A
#2006011	LEI	梁	M	3A		4A
#2006012	LEI	梁	M	3A		4A
#2006013	LIU	廖	F	3A		4A
#2006014	LO	盧	F	3A		4A
#2006015	LUI	呂	M	3A		4A
#2006016	LUI	呂	F	3A		4A
#2006017	MA	文	M	3A		4A
#2006018	NG	吳	M	3A		4A
#2006019	PO	潘	M	3A		4A
#2006020	TSI	徐	F	3A		4A
#2006021	WC	王	M	3A		4A
#2006022	WC	黃	M	3A		4A
#2006023	WC	王	M	3A		4A
#2006024	WC	黃	M	3A		4A
#2006026	YEI	楊	M	3A		4A
#2006028	YIL	葉	F	3A		4A
#2006029	YIL	葉	M	3A		4A
#2006032	CH...	陳	F	3B		4B

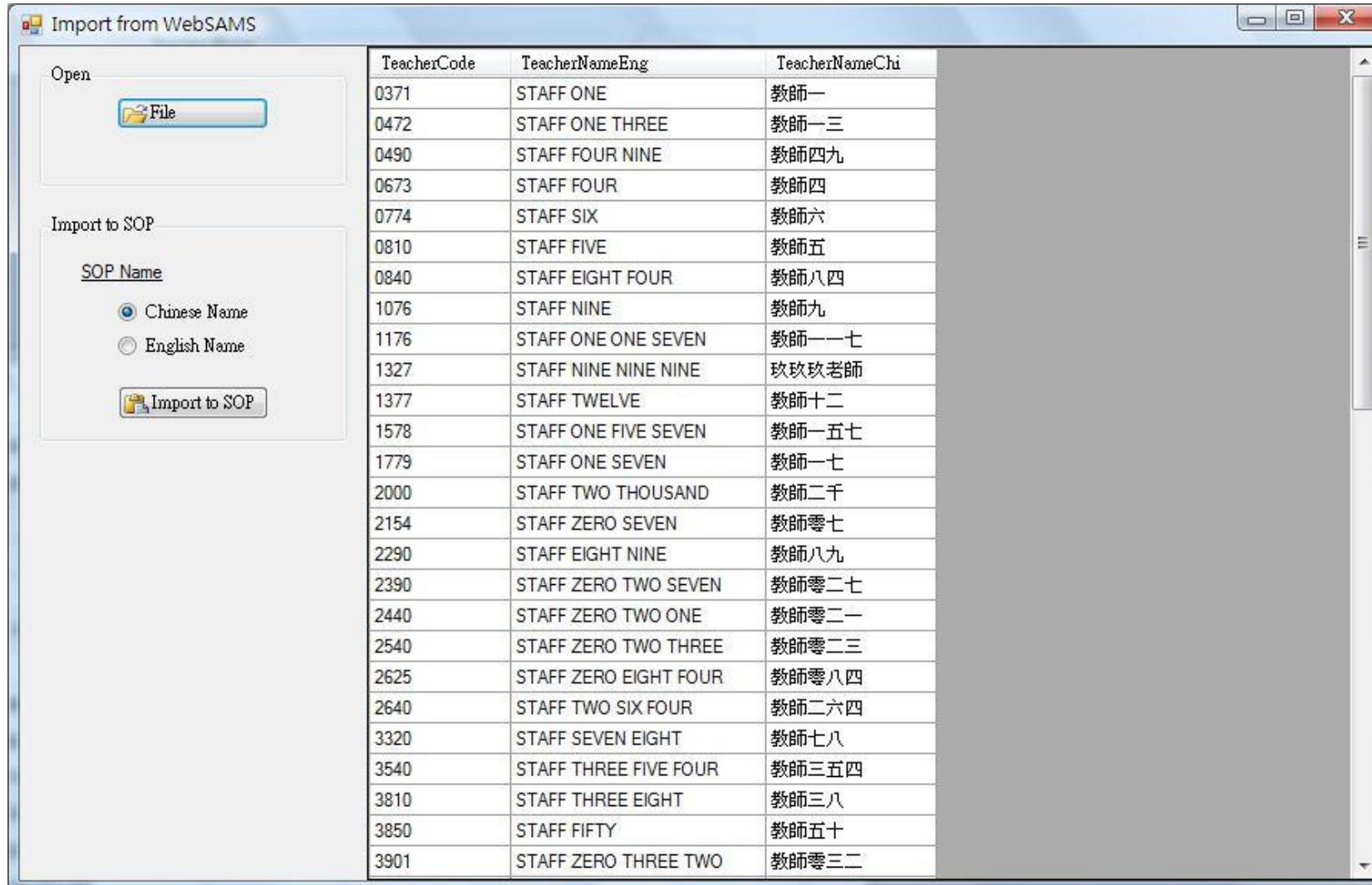
School-Defined Subjects



The screenshot shows a software window titled "Import from WebSAMS". On the left side, there are two sections: "Open" with a "File" button and "Import to SOP" with an "Import to SOP" button. The main area contains a table with the following data:

SubjectCode	DescriptionEng	DescriptionChi	SubjectAbbrevNameEng	SubjectAbbrevNameChi	Subject
#900	EMB001	EMB001	EMB001	EMB001	EMB1
#90E	90e	90e	90e	90e	90e
#911	Class Period	班主任課	Class Period	班主任課	CP
#912	Chin & Eng	中英文	Chin & Eng	中英文	C&E
#919	Others	其他	其他	oth	oth
#921	Mathematics (Module 1)	數學(單元一)	Maths (Module 1)	數學(單元一)	M1
#922	Mathematics (Module 2)	數學(單元二)	Maths (Module 2)	數學(單元二)	M2
#939	test	測驗	test	測驗	test
#996	Japanese Language	日文	JAP	日文	JAP
#997	language(German)	語文(德文)	Gen	德文	Gen
#PEA	Physical Education (General)	體育科(普通)	Phy Ed. (Gen)	體育科員(普)	PEG
#UD2	Unclassified Subject	US	US	US	US

Teacher Information



The screenshot shows a software window titled "Import from WebSAMS". On the left side, there are two panels. The top panel, labeled "Open", contains a "File" button. The bottom panel, labeled "Import to SOP", contains a "SOP Name" section with two radio buttons: "Chinese Name" (which is selected) and "English Name". Below these is an "Import to SOP" button. The main area of the window is a table with three columns: "TeacherCode", "TeacherNameEng", and "TeacherNameChi". The table contains 25 rows of data, listing teacher codes, their English names, and their Chinese names.

TeacherCode	TeacherNameEng	TeacherNameChi
0371	STAFF ONE	教師一
0472	STAFF ONE THREE	教師一三
0490	STAFF FOUR NINE	教師四九
0673	STAFF FOUR	教師四
0774	STAFF SIX	教師六
0810	STAFF FIVE	教師五
0840	STAFF EIGHT FOUR	教師八四
1076	STAFF NINE	教師九
1176	STAFF ONE ONE SEVEN	教師一一七
1327	STAFF NINE NINE NINE	玖玖玖老師
1377	STAFF TWELVE	教師十二
1578	STAFF ONE FIVE SEVEN	教師一五七
1779	STAFF ONE SEVEN	教師一七
2000	STAFF TWO THOUSAND	教師二千
2154	STAFF ZERO SEVEN	教師零七
2290	STAFF EIGHT NINE	教師八九
2390	STAFF ZERO TWO SEVEN	教師零二七
2440	STAFF ZERO TWO ONE	教師零二一
2540	STAFF ZERO TWO THREE	教師零二三
2625	STAFF ZERO EIGHT FOUR	教師零八四
2640	STAFF TWO SIX FOUR	教師二六四
3320	STAFF SEVEN EIGHT	教師七八
3540	STAFF THREE FIVE FOUR	教師三五四
3810	STAFF THREE EIGHT	教師三八
3850	STAFF FIFTY	教師五十
3901	STAFF ZERO THREE TWO	教師零三二

Academic Results

Import from WebSAMS

Open

Academic Subject File

Academic Result File

Import to SOP

SOP ATA Subject

Chinese Description

English Description

ATA Score

1

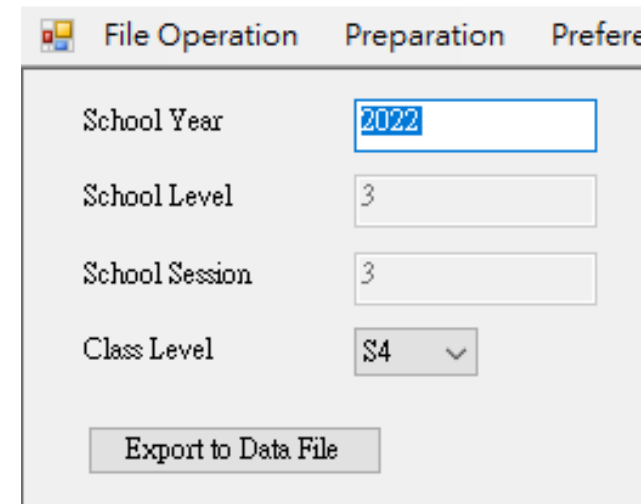
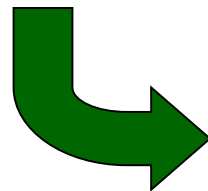
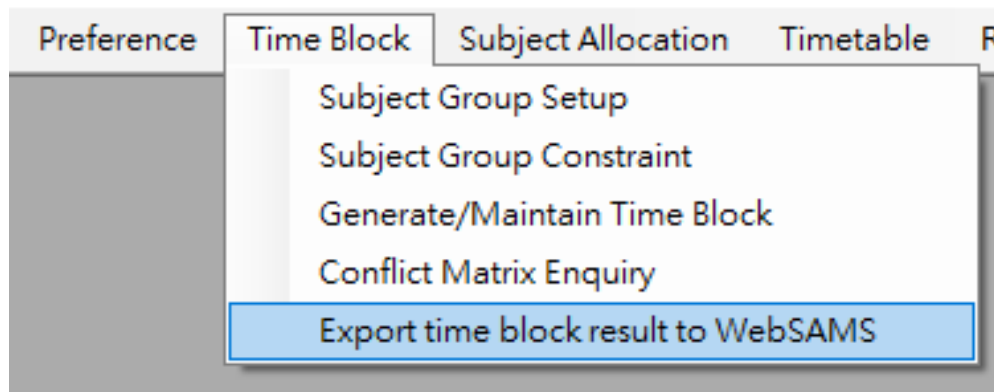
Import to SOP

SubjectCode	SubjectAbbrevNameEng	SubjectAbbrevNameChi	SubjectShortNameEng	SubjectShortNameChi
#045	Biology	生物	BIO	生物
#070	Chemistry	化學	CHEM	化學
#075	Chin History	中國歷史	CHIS	中央
#080	Chinese Language	中國語文	CHIN	中文
#105	Computer App	電腦應用	CA	腦應
#165	English Language	英國語文	ENG	英文
#210	Geography	地理	GEOG	地理
#280	Mathematics	數學	MATH	數學
#300	Music	音樂	MUS	音樂
#310	Physical Ed	體育	PE	體育
#315	Physics	物理	PHY	物理
#350	Putonghua	普通話	PTH	普話

per	RegNumber	SubjectCode	Score_ATA1	Score_ATA2	Score_ATA3	Score_AI
	#1234ASD14	#045				
	#1234ASD14	#070				
	#1234ASD14	#075				
	#1234ASD14	#080				
	#1234ASD14	#165				
	#1234ASD14	#210				
	#1234ASD14	#280				75.00
	#1234ASD14	#300				
	#1234ASD14	#310				
	#1234ASD14	#315				

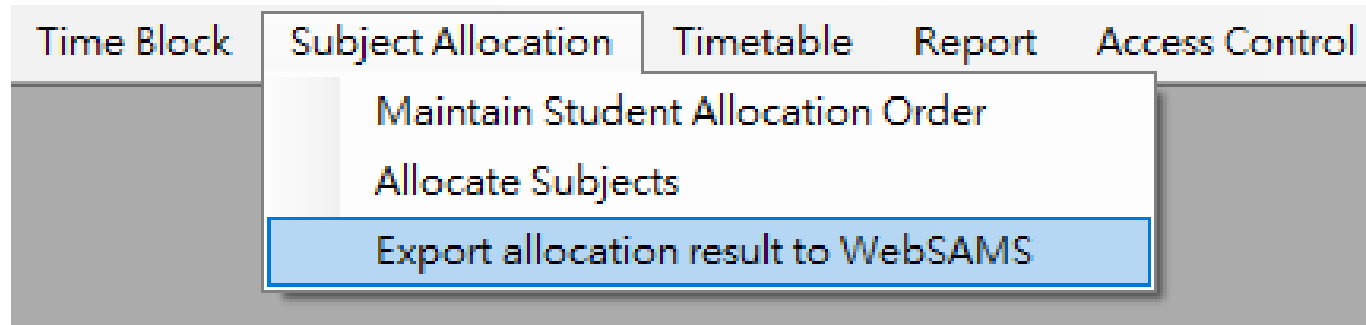
Export Time Block to WebSAMS

- The time block result can be exported as a file for WebSAMS timetabling



Export Allocation Result to WebSAMS

- Allocation Result can be exported as a file.
- The file can then be imported to WebSAMS for the subjects setup of students.



WebSAMS

- Student → Subjects Setup → File Upload

■ KPM
■ Report
■ Data Communication
▼ Student
■ Profile
■ Height & Weight
■ Info Upload

[S-STU53-01] Student > Subjects Setup > File Upload

Please specify the location of the file to be uploaded

Filename and Path (*.xls) 瀏覽...

Upload

*File has to be prepared in the Student Option Programme (SOP).

Timetable

- Individual timetable can be printed for each student.
- Pre-requisites:
 - Timetabling tool should be **TTL**.
 - Subjects should be allocated using **SOP**.
 - If **school-based subjects** are involved, those subjects should be imported to SOP from the file exported through **WebSAMS**.
 - **“Next year class”** of students should be entered.

WebSAMS

Report Management

- Data Management
 - Query Maintenance
 - Query Sharing
 - Task Maintenance
 - Table Access Control
 - Execution
 - Export
 - Import
 - Report
 - Extract for TESS
 - Extract for SOP**
- Talent Databank
- Timetabling (TTL)
- Timetabling (TSI)

[S-DAT11-01] Data Management > Extract for SOP

Extract for SOP

Please input the extract criteria.

School Year: 2022

School Level: Secondary

School Session: Whole Day

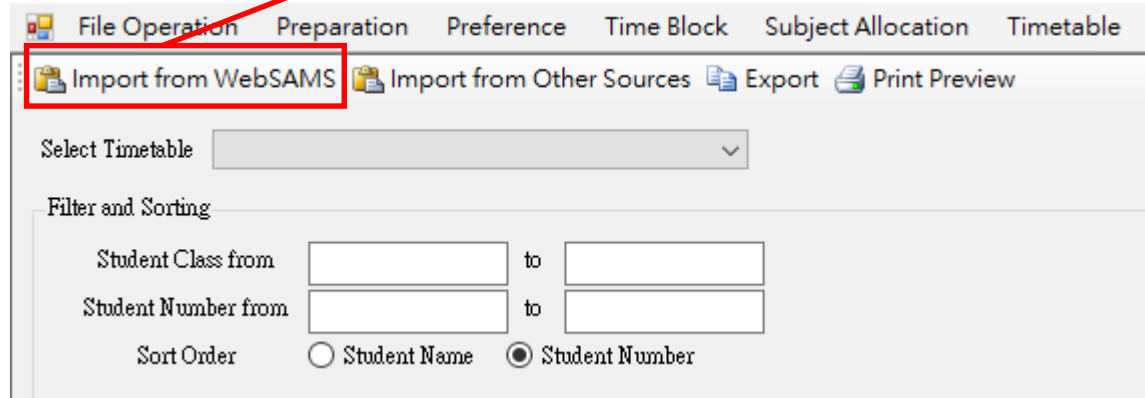
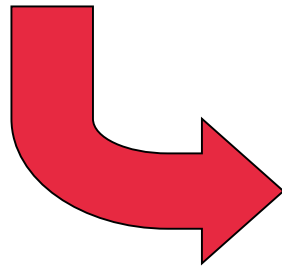
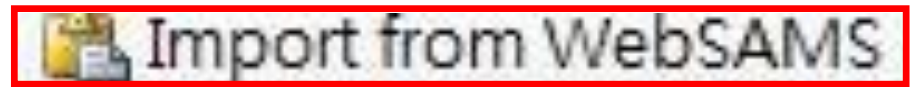
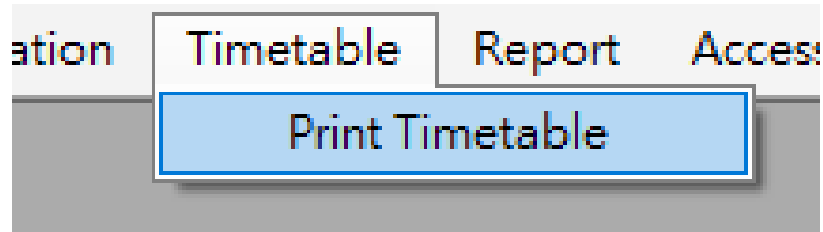
Class Level: Secondary 3

Extract Option

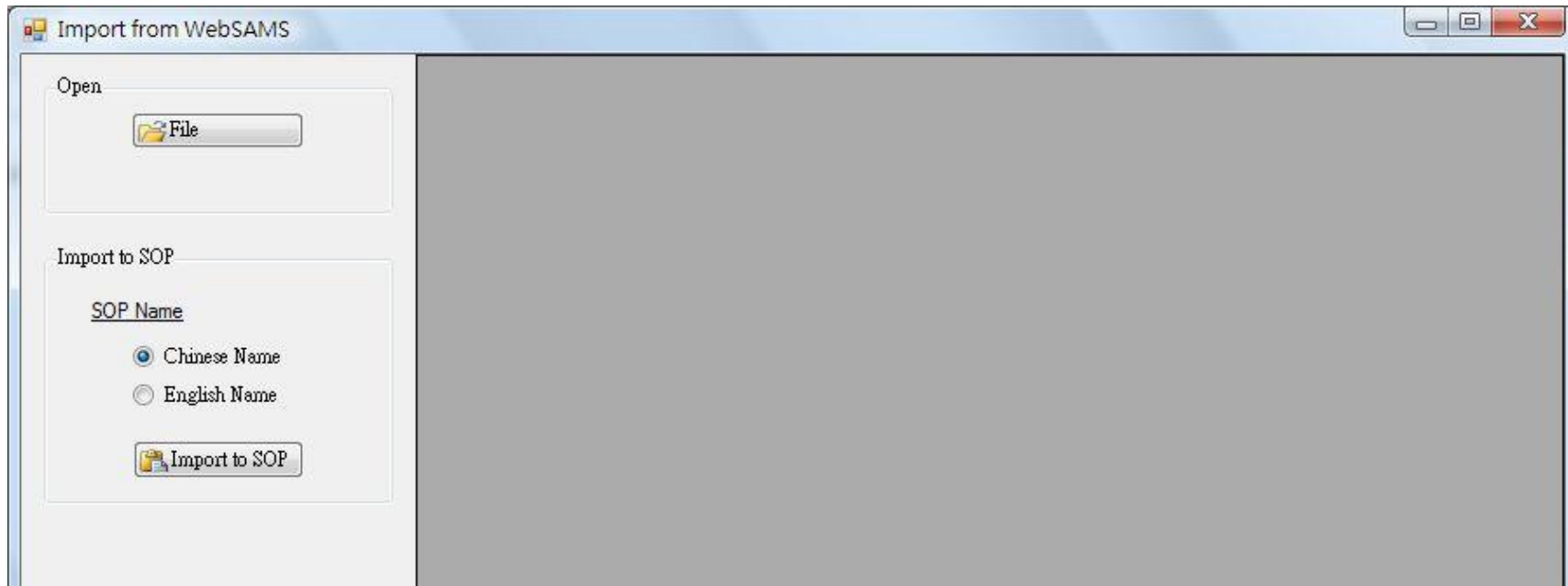
- Student Particulars
- Student Academic Result
- School-Defined Subjects (Whole School)
- Teacher Information (Whole School)
- Master Timetable (2023 Secondary 4)
Data Set with Final Result Set: uat165_sec_20221221_output

Extract

Timetable



Timetable



Import from WebSAMS		DataSetName	SummerWinter	SubjectCode	EngShortName	ChiShortName	SubjectGroupCode	Subjec
Open	File	SOP Import 1	W	#11N	BAFS	企財	BAFS2_2	Block_
		SOP Import 1	W	#11N	BAFS	企財	BAFS2_2	Block_
		SOP Import 1	W	#11N	BAFS	企財	BAFS2_2	Block_
		SOP Import 1	W	#11N	BAFS	企財	BAFS2_2	Block_
		SOP Import 1	W	#11N	BAFS	企財	BAFS2_2	Block_
Import to SOP	SOP Name	SOP Import 1	W	#045	BIO	生物	BIO1_1	Block_
	<input checked="" type="radio"/> Chinese Name	SOP Import 1	W	#045	BIO	生物	BIO1_1	Block_
	<input type="radio"/> English Name	SOP Import 1	W	#045	BIO	生物	BIO1_1	Block_
	Import to SOP	SOP Import 1	W	#135	ECON	經濟	ECON2_1	Block_
		SOP Import 1	W	#135	ECON	經濟	ECON2_1	Block_
		SOP Import 1	W	#135	ECON	經濟	ECON2_1	Block_
		SOP Import 1	W	#135	ECON	經濟	ECON2_1	Block_
		SOP Import 1	W	#135	ECON	經濟	ECON2_1	Block_
		SOP Import 1	W	#81N	ICT	資通	ICT1_1	Block_
		SOP Import 1	W	#81N	ICT	資通	ICT1_1	Block_
		SOP Import 1	W	#81N	ICT	資通	ICT1_1	Block_
		SOP Import 1	W	#81N	ICT	資通	ICT1_1	Block_
		SOP Import 1	W	#81N	ICT	資通	ICT1_1	Block_
		SOP Import 1	W	#41S	PED	體憑	PE1_1	Block_
		SOP Import 1	W	#41S	PED	體憑	PE1_1	Block_
		SOP Import 1	W	#41S	PED	體憑	PE1_1	Block_
		SOP Import 1	W	#41S	PED	體憑	PE1_1	Block_
		SOP Import 1	W	#41S	PED	體憑	PE1_1	Block_

TimetableReport

- 1234ASD14
- 2018002
- 2018005
- 2018006
- 2018007
- 2018008
- 2018009
- 2018010
- 2018012
- 2018013
- 2018014
- 2018015
- 2018016
- 2018017
- 2018018
- 2018019
- 2018020
- 2018021
- 2018022
- 2018023
- 2018024
- 2018026
- 2018028
- 2018029
- 2018032
- 2018033
- 2018034
- 2018035
- 2018036
- 2018037
- 2018038
- 2018039
- 2018040

Student Time-table

Class : 4A

Student Number : 2018013

Student Name : LIU HOI PUI FIONA

	Day 1	Day 2	Day 3	Day 4	Day 5
08:30-09:20	數學, A, 101	生物, D, S-BIO	英文, JB, 101	生物, D, S-BIO	英文, JB, 101
09:20-10:10	英文, JB, 101	中文, CKS, 101	數學, A, 101	中文, CKS, 101	英文, JB, 101
10:10-11:00	英文, JB, 101	中文, CKS, 101	英文, JB, 101	中文, CKS, 101	歷史, FO, S-GEN
11:00-11:15	break	break	break	break	break
11:15-12:05	生物, D, S-BIO	數學, A, 101	中文, CKS, 101	歷史, FO, S-GEN	中國歷史, CBC, 202
12:05-12:55	生物, D, S-BIO	數學, A, 101	中國歷史, CBC, 202	英文, JB, 101	中國歷史, CBC, 202
12:55-14:00	lunch	lunch	lunch	lunch	lunch
14:00-14:50	中國歷史, CBC, 202	歷史, FO, S-GEN	歷史, FO, S-GEN	中國歷史, CBC, 202	數學, A, 101
14:50-15:40	中文, CKS, 101	英文, JB, 101	歷史, FO, S-GEN	數學, A, 101	數學, A, 101
15:40-16:30	中文, CKS, 101	英文, JB, 101	生物, D, S-BIO	數學, A, 101	中文, CKS, 101

Break

SOP

Strategies for Handling Special Cases



SOP

Special Case 1

	4A	4B	4C	4D
Block 1 (4)	化學、經濟、旅遊與款待、	企業、會計與財務概論 (商業組)		
Block 2 (5)	生物、化學、地理、	企業、會計與財務概論 (會計組)		資訊及通訊科技
Block 3 (6)	物理、化學、中國歷史、經濟、設計與應用科技、視覺藝術			

How to allocate BAFS (Business) and BAFS (Accounting) to students **without duplication?**

Tricks & Tips

Different MOI

歷史	歷史	<input type="checkbox"/>	<input type="checkbox"/>
旅遊	旅遊與款待	<input checked="" type="checkbox"/>	<input type="checkbox"/>
企業	企業、會計與財務概論	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
設計	設計與應用科技	<input checked="" type="checkbox"/>	<input type="checkbox"/>
健社	健康管理與社會關懷	<input type="checkbox"/>	<input type="checkbox"/>
資訊	資訊及通訊科技	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Subject	Max Size	No. of Groups	NOR*	1	2	3	4	5	6	Total
生物	40	2	47	7	19	21	10	9	20	86
化學	40	2	45	21	7	18	10	13	15	84
物理	40	2	41	19	5	17	15	18	6	80
文學	40	1	42	11	12	19	26	30	18	116
中史	40	1	41	14	11	16	2	6	0	49
經濟	40	2	80	32	35	12	23	14	16	132
地理	40	1	42	9	22	11	33	32	41	148
歷史	40	1	39	13	17	9	29	27	37	132
企業	40	1	78	29	28	21	20	21	29	148
BAFS	40	0	0	0	0	0	0	0	0	0
設計	40	1	31	4	14	13	10	0	3	44
健社	40	1	34	9	6	19	9	9	6	58
資訊	40	2	77	31	23	23	12	20	8	117

Tricks & Tips

- Since 企業 & BAFS are **overlapping/ forbidden combinations**, SOP will not allocate both subjects to the same student.
- Using 企業 & BAFS to represent different modules.

Special Case 2

	4A	4B	4C	4D
Block 1 (4)	化學、經濟、旅遊與款待、企業、會計與財務概論 (商業組)			
Block 2 (5)	生物、化學、地理、企業、會計與財務概論 (會計組)、資訊及通訊科技			
Block 3 (6)	物理、化學、中國歷史、經濟、設計與應用科技、視覺藝術			

Can school allocate subjects to top 40 students by using ‘Choice 3’ and the remaining students by using ‘Choice 1’ ?

Tricks & Tips

1. Select the top 40 students

Partial Allocation

All Students Students' Preference Students Allocated to Subject Group

Violet Color Background - Compulsory block unallocated
Red Font - students with insufficient allocation

<input type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
<input checked="" type="checkbox"/>	292875	3B	26		34	34	3	0			
<input checked="" type="checkbox"/>	392875	3C	25		35	35	3	0			
<input checked="" type="checkbox"/>	492875	3D	25		36	36	3	0			
<input checked="" type="checkbox"/>	592875	3E	25		37	37	3	0			
<input checked="" type="checkbox"/>	005897	3A	26		38	38	3	0			
<input checked="" type="checkbox"/>	105897	3A	27		39	39	3	0			
<input checked="" type="checkbox"/>	205897	3B	28		40	40	3	0			
<input type="checkbox"/>	305897	3C	27		41	41	3	0			
<input type="checkbox"/>	405897	3D	27		42	42	3	0			
<input type="checkbox"/>	505897	3E	27		43	43	3	0			
<input type="checkbox"/>	098756	3A	28		44	44	3	0			
<input type="checkbox"/>	087349	3A	29		45	45	3	0			

2. Use 'Choice 3' to allocate subjects to the top 40 students

All Students Students' Prefer

Allocate Subjects to Students

Allocation Algorithm Choices

- Choice 1 - one of each student's choices will be fulfilled in each iteration.
- Choice 2 - one of each student's choices will be fulfilled in the 1st iteration. His/her remaining choices will be allocated in the 2nd iteration.
- Choice 3 - all the choices of each student would be allocated in one iteration
- Choice 4 - two of each student's choices will be fulfilled in the 1st iteration. His/her remaining choices will be allocated in the 2nd iteration.

Subject Group Distribution Choices

- Students will be distributed to different groups by random
- Students will be distributed to different groups by academic result

Compulsory Block

Has Compulsory Block Block 1

Generate Allocation Result

<input type="checkbox"/>	Student No.																			
<input checked="" type="checkbox"/>	292875																			
<input checked="" type="checkbox"/>	392875																			
<input checked="" type="checkbox"/>	492875																			
<input checked="" type="checkbox"/>	592875																			
<input type="checkbox"/>	005897																			
<input checked="" type="checkbox"/>	105897																			
<input checked="" type="checkbox"/>	205897																			
<input type="checkbox"/>	305897																			
<input type="checkbox"/>	405897																			
<input type="checkbox"/>	505897																			
<input type="checkbox"/>	098756																			
<input type="checkbox"/>	087349	3A	29				45	45	3	0										

Only the top 40 students will be allocated with subjects

All Students | Students' Preference | Students Allocated to Subject Group

Violet Color Background - Compulsory block unallocated
 Red Font - students with insufficient allocation

<input type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
<input type="checkbox"/>	292875	3B	26		34	34	3	3	企業 (2)	經濟 (1)	化學 (3)
<input type="checkbox"/>	392875	3C	25		35	35	3	3	企業 (2)	經濟 (1)	化學 (3)
<input type="checkbox"/>	492875	3D	25		36	36	3	3	企業 (2)	經濟 (1)	化學 (3)
<input type="checkbox"/>	592875	3E	25		37	37	3	3	企業 (2)	經濟 (1)	化學 (3)
<input type="checkbox"/>	005897	3A	26		38	38	3	3	生物 (3)	設計 (2)	歷史 (1)
<input type="checkbox"/>	105897	3A	27		39	39	3	3	中史 (2)	企業 (3)	地理 (1)
<input type="checkbox"/>	205897	3B	28		40	40	3	3	中史 (2)	企業 (3)	地理 (1)
<input type="checkbox"/>	305897	3C	27		41	41	3	0			
<input type="checkbox"/>	405897	3D	27		42	42	3	0			
<input type="checkbox"/>	505897	3E	27		43	43	3	0			
<input type="checkbox"/>	098756	3A	28		44	44	3	0			
<input type="checkbox"/>	087349	3A	29		45	45	3	0			

3. Select all students for allocating subjects

All Students Students' Preference Students Allocated to Subject Group

Violet Color Background - Compulsory block unallocated
Red Font - students with insufficient allocation

<input checked="" type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
<input checked="" type="checkbox"/>	292875	3B	26		34	34	3	3	企業 (2)	經濟 (1)	化學 (3)
<input checked="" type="checkbox"/>	392875	3C	25		35	35	3	3	企業 (2)	經濟 (1)	化學 (3)
<input checked="" type="checkbox"/>	492875	3D	25		36	36	3	3	企業 (2)	經濟 (1)	化學 (3)
<input checked="" type="checkbox"/>	592875	3E	25		37	37	3	3	企業 (2)	經濟 (1)	化學 (3)
<input checked="" type="checkbox"/>	005897	3A	26		38	38	3	3	生物 (3)	設計 (2)	歷史 (1)
<input checked="" type="checkbox"/>	105897	3A	27		39	39	3	3	中史 (2)	企業 (3)	地理 (1)
<input checked="" type="checkbox"/>	205897	3B	28		40	40	3	3	中史 (2)	企業 (3)	地理 (1)
<input checked="" type="checkbox"/>	305897	3C	27		41	41	3	0			
<input checked="" type="checkbox"/>	405897	3D	27		42	42	3	0			
<input checked="" type="checkbox"/>	505897	3E	27		43	43	3	0			
<input checked="" type="checkbox"/>	098756	3A	28		44	44	3	0			
<input checked="" type="checkbox"/>	087349	3A	29		45	45	3	0			

4. Use 'Choice 1' to allocate subjects to all students

The screenshot shows a software interface for allocating subjects to students. The main window is titled "Allocate Subjects to Students". On the left, there is a list of students with checkboxes and their IDs. The main area contains three sections of options:

- Allocation Algorithm Choices:**
 - Choice 1 - one of each student's choices will be fulfilled in each iteration. (A red arrow points to this option.)
 - Choice 2 - one of each student's choices will be fulfilled in the 1st iteration. His/her remaining choices will be allocated in the 2nd iteration.
 - Choice 3 - all the choices of each student would be allocated in one iteration
 - Choice 4 - two of each student's choices will be fulfilled in the 1st iteration. His/her remaining choices will be allocated in the 2nd iteration.
- Subject Group Distribution Choices:**
 - Students will be distributed to different groups by random
 - Students will be distributed to different groups by academic result
- Compulsory Block:**
 - Has Compulsory Block (Block 1)

At the bottom right, there is a button labeled "Generate Allocation Result".

Student No.	3A	29	44	44	3	0			
292875			45	45	3	0			
392875									
492875									
592875									
005897									
105897									
205897									
305897									
405897									
505897									
098756									
087349	3A	29							

Better satisfaction rate for the top 40 students

All Students | Students' Preference | Students Allocated to Subject Group

Violet Color Background - Compulsory block unallocated
Red Font - students with insufficient allocation

<input checked="" type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
<input checked="" type="checkbox"/>	592875	3E	25		37	37	3	3	企業 (2)	經濟 (1)	化學 (3)
<input checked="" type="checkbox"/>	005897	3A	26		38	38	3	3	生物 (3)	設計 (2)	歷史 (1)
<input checked="" type="checkbox"/>	105897	3A	27		39	39	3	3	中史 (2)	企業 (3)	地理 (1)
<input checked="" type="checkbox"/>	205897	3B	28		40	40	3	3	中史 (2)	企業 (3)	地理 (1)
<input checked="" type="checkbox"/>	305897	3C	27		41	41	3	3	中史 (2)	企業 (3)	地理 (1)
<input checked="" type="checkbox"/>	405897	3D	27		42	42	3	3	中史 (2)	企業 (3)	資訊 (1)
<input checked="" type="checkbox"/>	505897	3E	27		43	43	3	3	中史 (2)	企業 (3)	資訊 (1)
<input checked="" type="checkbox"/>	098756	3A	28		44	44	3	3	企業 (1)	設計 (3)	經濟 (2)
<input checked="" type="checkbox"/>	087349	3A	29		45	45	3	3	資訊 (4)	文學 (2)	地理 (1)
<input checked="" type="checkbox"/>	187349	3A	30		46	46	3	3	中史 (3)	企業 (2)	經濟 (1)
<input checked="" type="checkbox"/>	287349	3B	31		47	47	3	3	中史 (3)	企業 (2)	經濟 (1)
<input checked="" type="checkbox"/>	387349	3C	30	-----	48	48	3	3	中史 (3)	企業 (2)	經濟 (1)

Tricks & Tips

- Subjects allocated to the top 40 students in the 1st allocation will remain **unchanged** in the 2nd allocation of subjects to all students.
- Subjects can be allocated to students in different allocations and using different allocation methods.

Special Case 3

- 5 classes in S4
- 3 blocks of elective subjects
- **1 class (40 students) – 3X ;**
4 classes – 2X

Tricks & Tips

School Based Subjects

	4B	4C	4E	4A	4D
Block 1 (4)	化學(30)/ 物理(24)/ 化學(30)/ 歷史(30)				
Block 2 (5)	4A	4B	4D	4E	
	生物(30)/ 物理(30)/ 文學(30)/ 中史(15)/ 旅遊(30)/ 資訊(21)				
Block 3 (6)	4A	4C	4D	4E	
	生物(26)/ 中史(19)/ 經濟(30)/ 地理(30)/ 資訊(30)/ 視藝(30)				

Students allocated to **4 dummy subject groups** will be assigned to 4 classes respectively. Students of 4A, 4B, 4C & 4D take 2X. Students of 4E take 3X.

1. Add a School-based subject to students study 2X

Student Number	Student Name	Num of Electives	SB011
7211xxxx	YEE XX	3	
7216xxxx	WU XX	3	
P630xxxx	TANG XX	2	1
P646xxxx	LAW XX	2	1
P984xxxx	LIU XX	2	1
R112xxxx	YUEN XX	2	1
R121xxxx	WONG XX	2	1
R149xxxx	YAU XX	2	1
R162xxxx	LAM XX	2	1

2. Set all students study 3X

	A	B	C	D	E	F	G	H
	Student Number	Student Name	Gender	Class	Class Number	Next Year Class	Rank	Num of Electives
1								
2	72111949		F	3B			43	3
3	72163547		M	3B			17	3
4	P6309686		M	3B			125	3
5	P6464908		M	3D			190	3
6	P9846151		M	3A			83	3
7	R1123601		M	3C			74	3
8	R1211551		M	3B			56	3
9	R1494065		M	3D			180	3
10	R1621997		M	3A			174	3
11	R1684247		M	3E			22	3
12	R1745106		M	3C			163	3
13	R1760962		M	3C			143	3
14	R1814906		M	3B			53	3
15	R1836950		M	3D			75	3
16	R2348933		M	3E			34	3
17	R2410892		M	3C			111	3
18	R2421177		M	3B			107	3
19	R2527552		M	3A			148	3
20	R2555858		M	3A			162	3
21	R2582057		M	3A			189	3
22	R2706325		M	3A			38	3
23	R2716126		M	3A			40	3
24	R2873337		M	3D			160	3

3. Check the box of SB01

Short Name	Subject	中文 - 粵語	English	中文 - 普通話	Other Language
中史	中國歷史	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
經濟	經濟	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
宗教	倫理與宗教	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
地理	地理	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
歷史	歷史	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
旅遊	旅遊與款待	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
企業	企業、會計與財務概論	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
設計	設計與應用科技	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
健社	健康管理與社會關懷	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
資訊	資訊及通訊科技	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
科技	科技與生活	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
音樂	音樂	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
視藝	視覺藝術	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
體育	體育	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本01	校本科目01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
校本02	校本科目02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total number of record(s) Total number of offered subject(s)

Edit (School-based subject only)

4. Setup subject groups & Max. Size

Subject Group Setup Table

Subject	Max Size	No. of Groups	NOR*	1	2	3	4	5	6	Total
生物	40	2	47	7	19	21	10	9	20	86
化學	40	2	45	21	7	18	10	13	15	84
物理	40	2	41	19	5	17	15	18	6	80
文學	40	1	42	11	12	19	26	30	18	116
中史	40	1	41	14	11	16	2	6	0	49
經濟	40	2	80	32	35	12	23	14	16	132
地理	40	1	42	9	22	11	33	32	41	148
歷史	40	1	39	13	17	9	29	27	37	132
企業	40	2	78	29	28	21	20	21	29	148
設計	40	1	51	4	14	13	10	0	3	44
健社	40	1	34	9	6	19	9	9	6	58
資訊	40	2	77	31	23	23	12	20	8	117

* NOR - Number of Requests according to the number of electives students need to take

Number of subject groups in each Time Block

Block	No. of Groups
1	6
2	6
3	6

Total number of blocks

Total number of groups

*** Remarks: the Sum of Number of Groups must equal to total number of groups ***

5. Generate time blocks

Subject Group	Block 1	Block 2	Block 3
生物 - 生物 組別 1	BIO1_1		
生物 - 生物 組別 2		BIO1_2	
化學 - 化學 組別 1			CHEM1_1
化學 - 化學 組別 2	CHEM1_2		
物理 - 物理 組別 1		PHY1_1	
物理 - 物理 組別 2	PHY1_2		
中國文學 - 文學		CLIT1_1	
中國歷史 - 中史	CHIS1_1		
經濟 - 經濟 組別 1		ECON1_1	
經濟 - 經濟 組別 2			ECON1_2
地理 - 地理			GEO1_1
歷史 - 歷史			HIST1_1
企業、會計與財務概論 - 企業 組別 1	BAFS1_1		
企業、會計與財務概論 - 企業 組別 2		BAFS1_2	
設計與應用科技 - 設計		DAT1_1	
健康管理與社會關懷 - 健社			HMSC1_1
資訊及通訊科技 - 資訊 組別 1	ICT1_1		
資訊及通訊科技 - 資訊 組別 2			ICT1_2

Tricks & Tips

Use of Dummy Students

	4A	4B	4C	4D	Max Size
Block 1 (4)	Phy	Chem	Econ	BAFS	40@
Block 2 (6)	Chem / Bio / M1 / Hist / ICT / BAFS				30@
Block 3 (6)	Phy / Bio / 中史 / Geog / ICT / Econ				30@
Block 4 (4)	ERS / VA / PE / Music				30@

- SOP cannot set **same subject with different Max Size**
- Therefore, all highlighted subjects will be set with Max Size as 40
- **Dummy students** will be created.
- Extra quota will be pre-allocated to the dummy students.

1. Allocate dummy students to subjects in block 2 and block 3 to limit the class size manually

Selected Student

Student Number Student Name Rank

All Students Students' Preference Students Allocated to Subject Group

Subject	Priority	Sub-priority	Block 1	Block 2	Block 3	Block 4
Biology				0/30	0/30	
Chemistry			0/40	10/40		
Physics			0/40		10/40	
Science: Combined Science (Biology and Chemistry)				0/30		
中國歷史					0/30	

<input checked="" type="checkbox"/>	Student No.	Class	Class No.	Student Name	Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3	Block 4
<input checked="" type="checkbox"/>	3D37	3D		...	149	149	3	0				
<input checked="" type="checkbox"/>	3D38	3D			125	125	4	0				
<input checked="" type="checkbox"/>	3D39	3D			68	68	3	0				
<input checked="" type="checkbox"/>	D01	3S		D01	0		2	2		CHEM 0	PHY 0	
<input checked="" type="checkbox"/>	D02	3S		D02	0		2	2		BAFS 0	ECON 0	
<input checked="" type="checkbox"/>	D03	3S		D03	0		2	2		CHEM 0	PHY 0	
<input checked="" type="checkbox"/>	D04	3S		D04	0		2	2		BAFS 0	ECON 0	
<input checked="" type="checkbox"/>	D05	3S		D05	0		2	2		CHEM 0	PHY 0	
<input checked="" type="checkbox"/>	D06	3S		D06	0		2	2		BAFS 0	ECON 0	
<input checked="" type="checkbox"/>	D07	3S		D07	0		2	2		CHEM 0	PHY 0	
<input checked="" type="checkbox"/>	D08	3S		D08	0		2	2		BAFS 0	ECON 0	

School-based
SS elective subject
allocation and timetabling
practices



SOP

School-based SS elective subject allocation and timetabling practices

School A

Design time block and calculate satisfaction rate by using SOP

Allocate subjects manually (by subject queue) with aid of a self-developed webpage

School B

Design time block by self-developed VBA programme to find the best combination

Allocate subjects by SOP and fine-tune the results manually

School C

Design the time block and allocate subject by self-created formulae in MS Excel and VBA

Students prioritise their options by choosing each set of 3 elective subjects (3Xs) from more than 100 combinations

School-based SS elective subject allocation and timetabling practices

X1: from high rank to low rank
X2: from low rank to high rank
X3: from high rank to low rank

Tap on school resources e.g. seeking support from alumni of the IT industry to tailor make a school-based programme for subject allocation

Fixed time block for the benefit of repeaters and resolve other school constraints

Using google sheet for designing time block and subject allocation

Using self-developed programmes for subject allocation and self-developed webpage/ tools for calculation of the satisfaction rate

Using MS Excel for designing time block and allocate subject manually



School Sharing

SOP 2.0

SOP

Generating better
time block structure
to achieve higher
satisfaction rate



One more subject
allocation method
(by overall ranking &
by subject queue)

Re-development of SOP 2023



Compatible with the latest Windows and Office versions and new user interface

Dummy students and dummy subjects no longer required

Subject	Priority	Sub-priority	Block 1	Block 2	Block 3
生物	6	1	35/40	36/40	
化學	6	3		35/40	28/40
物理	6	2	34/40		32/40
中國文學	5		40/40		
中國歷史	2				37/40
經濟				40/40	
地理					
Geography					
歷史					
企業、會計與管理					
Business, Accounting & Management					
設計與應用科技					
Design & Applied Technology					
健康管理與社會科學					
Health Management & Social Sciences					
資訊及通訊科技	4				40/40
空堂 (dummy subject)			2/40	0/40	0/40
			177/240	178/240	177/240

Student Number	Student Name	Gender	Class
001094	DUMMY STUDENT 1	F	3A
004869	DUMMY STUDENT 2	F	3A
005897	DUMMY STUDENT 3	F	3A
008405	DUMMY STUDENT 4	M	3A
009275	DUMMY STUDENT 5	M	3A

Re-development of SOP 2023

- Views are welcome for enhancing the SOP.

Please contact Ms Rita KUO

at 2892 5947 or

by email at nas@edb.gov.hk



Q & A



Discussion

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ENQUIRY



Thank You