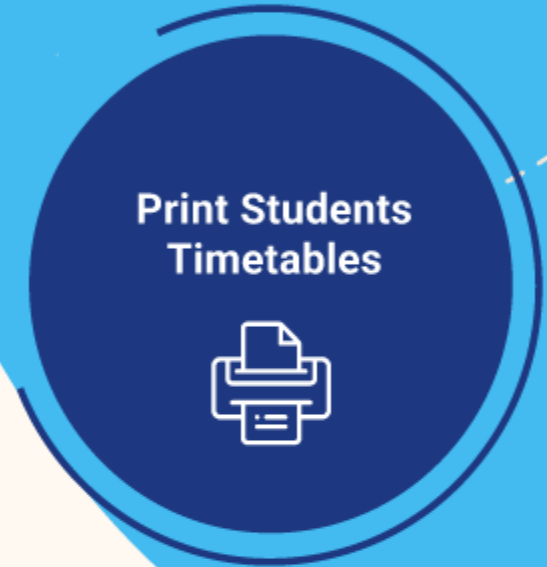
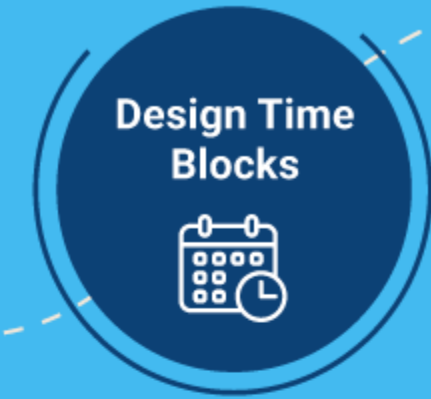




Student Option Programme (SOP)



Online Briefing : The Redeveloped SOP
25 March 2024



Programme Rundown

Time	Programme	Speaker
3:00 – 3:10	Overview of the Redeveloped SOP	Representatives of EDB
3:10 – 4:10	Introduction to New/Enhanced Functions of the SOP	
4:10 – 4:30	School Sharing: Feedback on Trial Version Testing	Mr WONG K W
4:30 – 5:00	Q&A Session	



Overview of the Redeveloped SOP

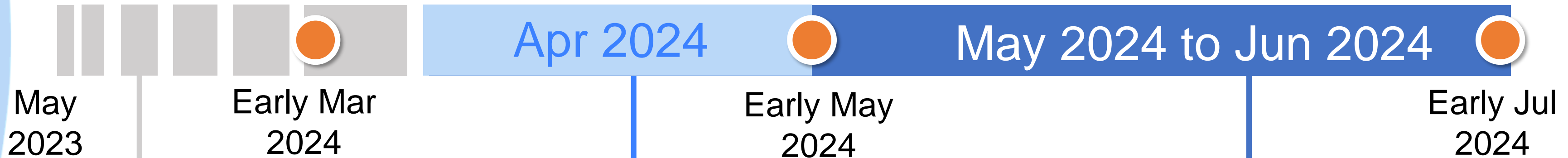


Redevelopment Schedule

Launch of the **alpha** version of SOP (Phase 1)

Launch of the **beta** version of SOP (Phase 2)

Launch of the **SOP version 2.0**



Development of the **alpha** version of SOP (Phase 1)

Development of the **beta** version of SOP

Bug fixing and documentation



Overview

The redeveloped SOP:

- ▶ fixed compatibility issues
- ▶ added a new allocation method: **elective subject allocation by elective subject queue**
- ▶ enhanced existing functions e.g. **optimised time block generation**
- ▶ fine-tuned algorithms e.g. **calculation of satisfaction rate**
- ▶ developed new user-friendly interface

 SOP

Main Functions

▶ Time Block Design

- Generate **optimised time block** arrangement based on **schools' input and constraints**.

▶ Elective Subject Allocation

- Allocate elective subjects to students based on their **options, allocation orders and time block arrangement**.

▶ Timetable Printing

- Print **student's individual timetable**.



New/Enhanced Functions of the Redeveloped SOP



User Interface



Student Option Programme


Welcome to Student Option Programme

Create New File Open File

Recent

Name
20240202-subject_conflict.sop C:\Users\ritatckuo\Downloads\UAT Files
data.sop C:\Users\ritatckuo\Desktop
20240205-1.sop C:\Users\ritatckuo\Downloads\UAT Files
20231204-1.sop C:\Users\ritatckuo\Downloads\UAT Files
EDB-240.sop C:\Users\ritatckuo\Downloads\UAT Files
20231104-sample5.sop C:\Users\ritatckuo\Downloads\UAT Files
20231024-dataset3.sop C:\Users\ritatckuo\Downloads\UAT Files
20231024-Difficult.sop C:\Users\ritatckuo\Downloads\UAT Files
EDB-226A.sop C:\Users\ritatckuo\Downloads\UAT Files
20231228-1.sop C:\Users\ritatckuo\Downloads\UAT Files
20240122-EDB217.sop C:\Users\ritatckuo\Downloads\UAT Files
20240122-EDB217-2.sop C:\Users\ritatckuo\Downloads\UAT Files

Education Bureau
The Government of the Hong Kong Special Administrative Region
of the People's Republic of China



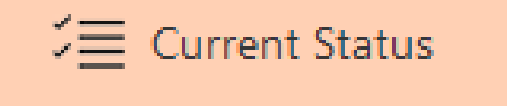
Student Option Programme

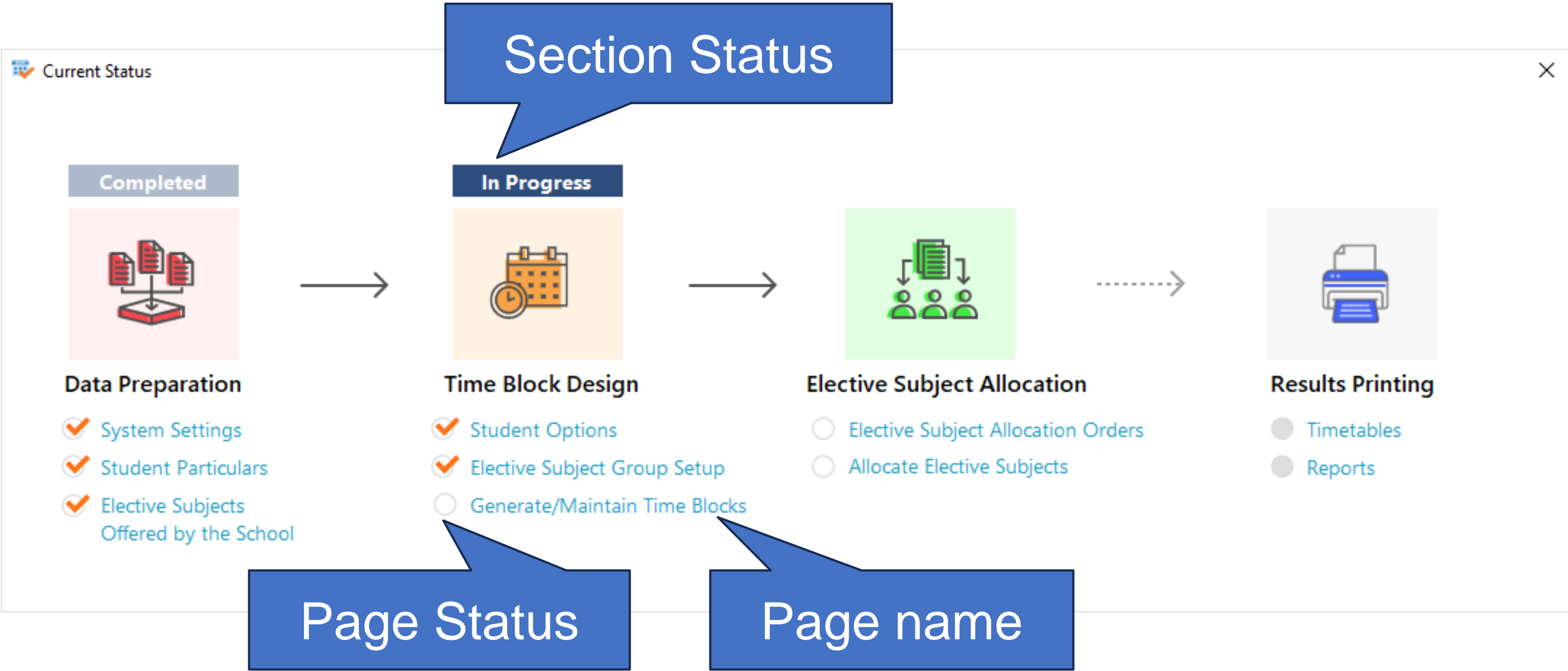
Checking Elective Subject List Updates...
Elective Subject List installed Version: 3
Current Elective Subject List installed version is up-to-date

30/01/2024 09:37

30/01/2024 09:35

User Interface - Current Status

- Show **after data file is opened** or click  button in the main menu
 - Click the page name to direct to the page
- ✓ = **finished** items
- = **unfinished** items



Student Option Programme

Current Status Student Information Elective Subject Information Student Options Time Block Elective Subject Allocation Print Timetable Reports

Student Information > Student Particulars

+ New Import Export

Student No.	Student Name	Gender	Class	Rank	No. of Elective Subjects
031137	Andrew Ko	M	3A	5	
			3A	6	
086122	Daniel Tse	M			
097370	David Hui	M			
027196	Donald Chiu	M			
050421	Donna Leung	F		106	3
014786	Elizabeth Lau	F		172	3
025334	Emily Tse	F	3A	13	38
051759	James Li	M	3A	14	1
096824	Jennifer Yau	F	3A	15	
024041	Jessica Hung	F	3A	16	
080272	John Tsang	M	3A	17	
090251	Joseph Liu	M	3A	18	
071030	Joshua Leung	M	3A	19	
017892	Karen Lam	F	3A	20	
031889	Kimberly Ding	F	3A	21	52

Total no. of student(s): 200 No. of student(s) filtered: 200

Last Modified by: school

Current Data File: data.sop

Function Buttons

Menu Bar (re-organised)

Filtering & Sorting

Rank No. of Elective Subjects

Sort Smallest to Largest
Sort Largest to Smallest
Clear Sort

Clear Filter
Custom Filter

(Select All)
1
2
3
4
5
6
7

Filter Cancel

Action Area

View Student Particulars

Student No.*
Student Name*
Gender*
Male Female
Class* Class No. Next Year Class
Rank# No. of Elective Subjects*

Save Reset Cancel

*Mandatory Fields
#The Rank will be used as the allocation order when elective subjects are allocated by Rank and by Overall Ranking

Student Option Programme

Current Status Student Information Elective Subject Information Student Options Time Block Elective Subject Allocation Print Timetable Reports

Student Information > Student Particulars

+ New Import Export

Student No.	Student Name	Gender	Class	Class No.	Next Year Class	Rank	No. of Elective Subjects
031137	Andrew Ko	M	3A	1		178	2
078451	Anthony Pak	M	3A	2		39	3
017833				3		166	3
060810				4		73	2
087263				5		31	3
090241				6		13	2
082078	Christo	M	3A	7		19	2
086122	Daniel Tse	M	3A	8		162	3
097370	David Hui	M	3A	9		176	3
027196	Donald Chiu	M	3A	10		9	3
050421	Donna Leung	F	3A	11			
014786	Elizabeth Lau	F	3A	12			
025334	Emily Tse	F	3A	13			
051759	James Li	M	3A	14			
096824	Jennifer Yau	F	3A	15			
024041	Jessica Hung	F	3A	16			
080272	John Tsang	M	3A	17		55	3
090251	Joseph Liu	M	3A	18		110	3
071030	Joshua Leung	M	3A	19		96	2
017000	Kevin	F	3A	20		100	2

Update Student Particulars

Student No.*
097370

Student Name*
David Hui

Gender*
 Male Female

Class* Class No. Next Year Class
3A 9

Rank# No. of Elective Subjects*
176 3

Save Reset Cancel

*Mandatory Fields
#The Rank will be used as the **allocation order** when elective subjects are allocated by Rank and by Overall Ranking

Double-click

Turn into edit mode

Total no. of student(s): 200 No. of student(s) filtered: 200



Time Block Generation

1. What is Time Block?
2. Generate time blocks to **find the best one** with estimated satisfaction rate within a time limit
3. Generation based on **fixed time blocks**
4. Select a time block structure as **confirmed**
5. Create a customised time block structure
6. Calculation of satisfaction rate (**top priorities vs all options**)

1. What is Time Block?

- Time block refers to the **time slots reserved in the school timetable for elective subjects.**
- Students can take **one of the elective subjects in each time block.**
- SOP helps schools to design and optimise the **combination of elective subjects** for the time blocks based on **schools' various constraints** (e.g. putting ECON and BAFS into different time blocks if they are taught by the same teacher).

Block 1
<ul style="list-style-type: none">• PHY• ECON• ...

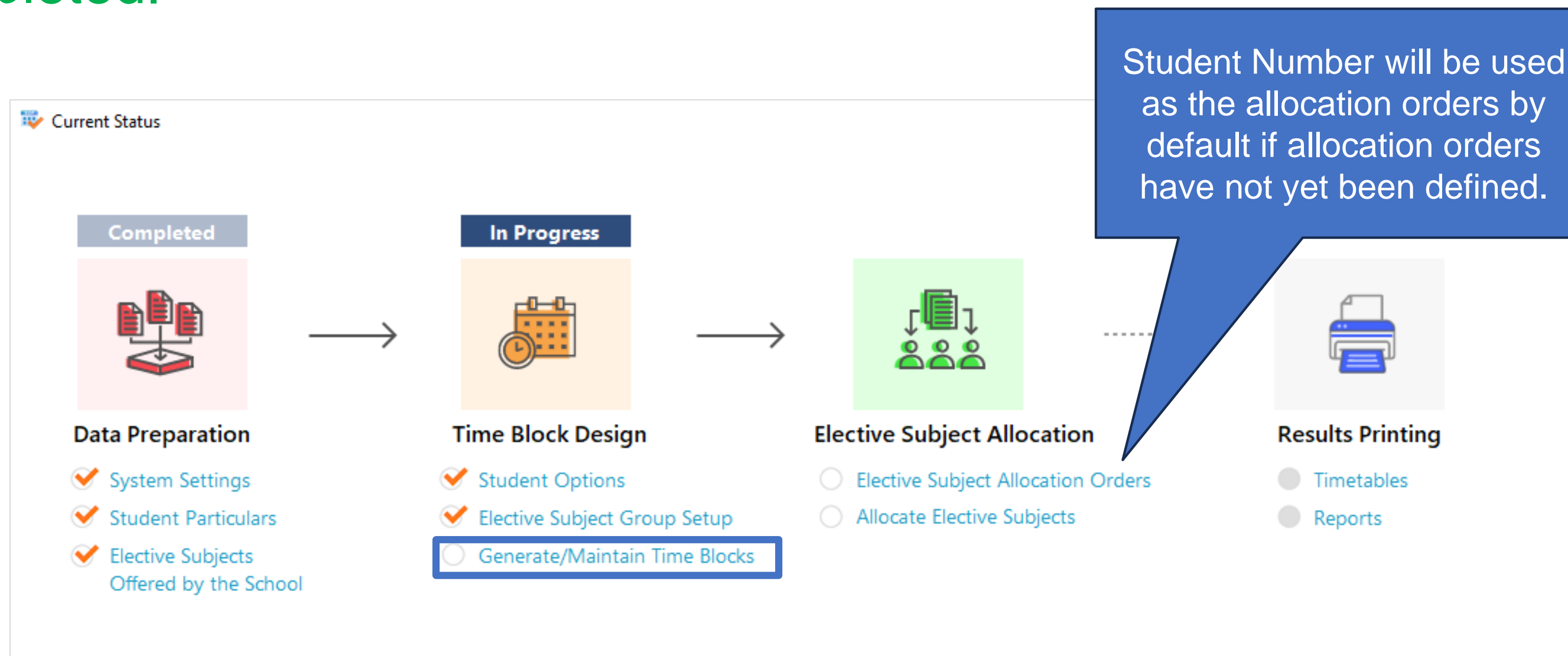
Block 2
<ul style="list-style-type: none">• BIO• BAFS• ...

Block 3
<ul style="list-style-type: none">• CHEM• HIST• ...

The combination of subjects / modules in the time blocks affect the satisfaction rates of students

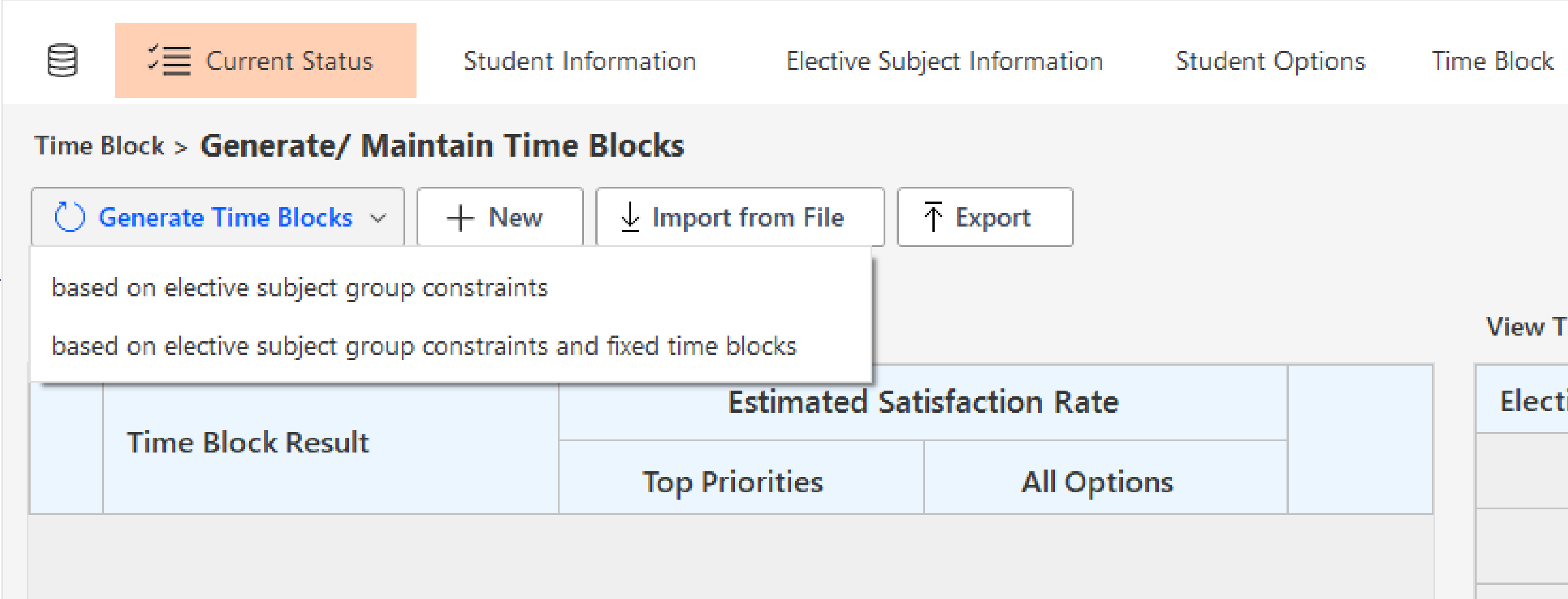
2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

- Before time block generation, make sure **the previous steps are completed.**



2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

- Users could select to generate time blocks “based on elective subject group constraints” or “based on elective subject group constraints and fixed time blocks”



Time Block > **Generate/ Maintain Time Blocks**

Generate Time Blocks ▾ + New ↓ Import from File ↑ Export

based on elective subject group constraints
based on elective subject group constraints and fixed time blocks

Time Block Result	Estimated Satisfaction Rate		Elective Subject Information
	Top Priorities	All Options	

2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

- Select the **algorithm** used by schools and the **time limit** for the generation.

Generate Time Block

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

Choice 1 - Students will be distributed to different groups evenly

Choice 2 - Students will be distributed to different groups based on their allocation order

Remarks: The system gives favour to students' options rather than the elective subject group distribution choice selected above.

Compulsory Block

Has Compulsory Block Block 1

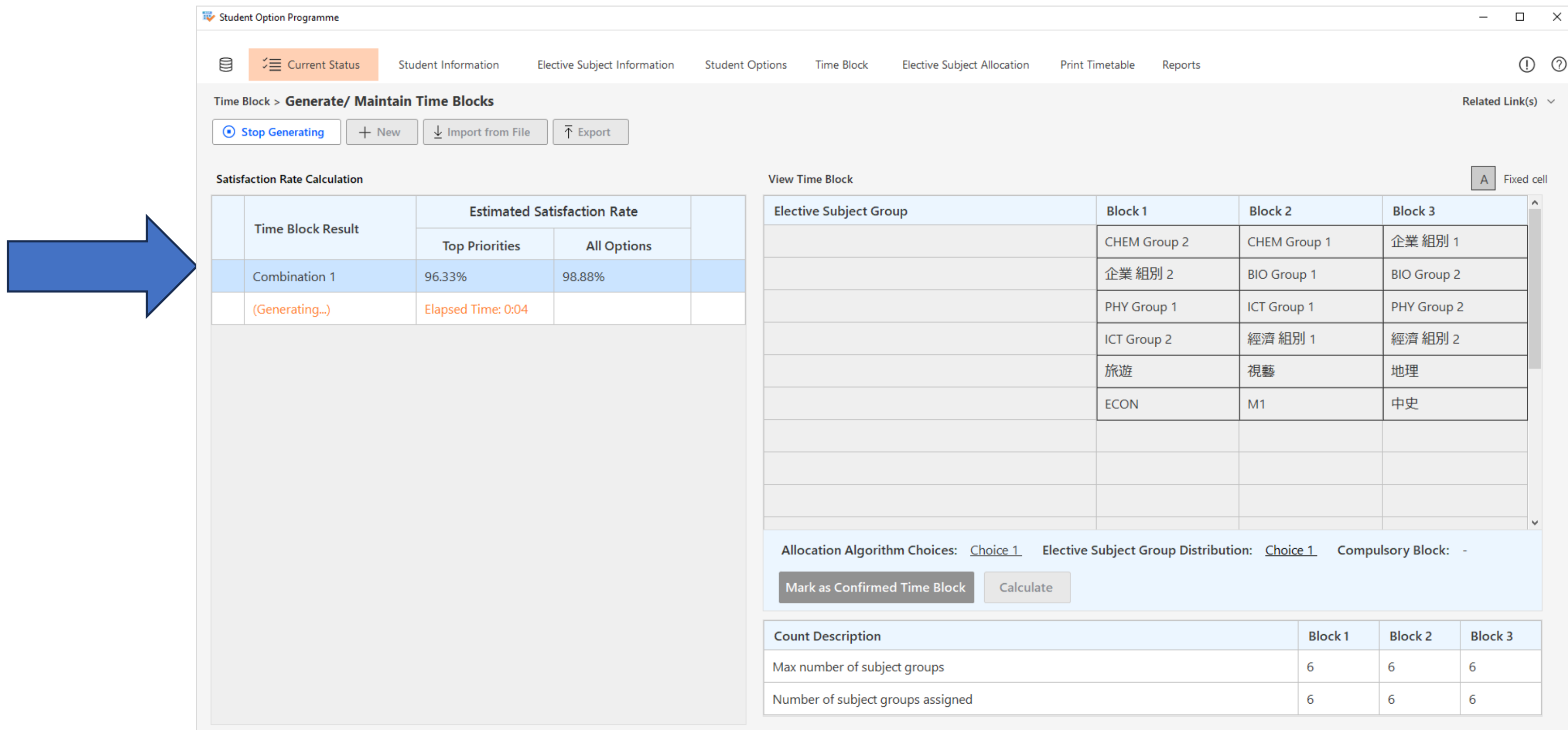
Time Limit

Generation Time Limit 5 mins

Generate Cancel

2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

- System starts to generate the time blocks.
- User could click on the generated time block results to check the details.



The screenshot displays the 'Student Option Programme' interface. The main navigation bar includes 'Current Status', 'Student Information', 'Elective Subject Information', 'Student Options', 'Time Block', 'Elective Subject Allocation', 'Print Timetable', and 'Reports'. The 'Time Block' section is active, showing 'Generate/ Maintain Time Blocks' with buttons for 'Stop Generating', '+ New', 'Import from File', and 'Export'.

The 'Satisfaction Rate Calculation' table is highlighted by a blue arrow. It contains the following data:

Time Block Result	Estimated Satisfaction Rate	
	Top Priorities	All Options
Combination 1	96.33%	98.88%
(Generating...)	Elapsed Time: 0:04	

The 'View Time Block' table shows the following subject group assignments:

Elective Subject Group	Block 1	Block 2	Block 3
	CHEM Group 2	CHEM Group 1	企業 組別 1
	企業 組別 2	BIO Group 1	BIO Group 2
	PHY Group 1	ICT Group 1	PHY Group 2
	ICT Group 2	經濟 組別 1	經濟 組別 2
	旅遊	視藝	地理
	ECON	M1	中史

Allocation Algorithm Choices: [Choice 1](#) Elective Subject Group Distribution: [Choice 1](#) Compulsory Block: -

Buttons: Mark as Confirmed Time Block, Calculate

Count Description table:

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

3. Time Block Generation - Generation based on fixed time blocks

- For generation of time blocks “based on elective subject group constraints and fixed time blocks”

The screenshot shows a software interface for generating time blocks. At the top, there is a navigation bar with several tabs: 'Current Status' (highlighted in orange), 'Student Information', 'Elective Subject Information', 'Student Options', and 'Time Block'. Below the navigation bar, the main heading is 'Time Block > Generate/ Maintain Time Blocks'. Under this heading, there are four buttons: 'Generate Time Blocks' (with a refresh icon and a dropdown arrow), '+ New', 'Import from File' (with a download icon), and 'Export' (with an upload icon). A blue arrow points to the 'Generate Time Blocks' dropdown menu, which is open and shows two options: 'based on elective subject group constraints' and 'based on elective subject group constraints and fixed time blocks'. Below the dropdown menu, there is a table with the following structure:

Time Block Result	Estimated Satisfaction Rate		Electi
	Top Priorities	All Options	

3. Time Block Generation - Generation based on fixed time blocks

- **Drag and drop** the elective subject to “Block 1”, “Block 2” to assign and fix the elective subject to the time block

Generate Time Block

Define Fixed Time Block

Draggable cell Fixed cell

Elective Subject Group	Block 1	Block 2	Block 3
BIO Group 2	M1		中史
CHEM Group 1	BIO Group 1		
CHEM Group 2			
PHY Group 1			
PHY Group 2			
經濟 組別 1			

Reset

Count Description	Block 1	Block 2	Block 3
Max number of subject groups	6	6	6
Number of subject groups assigned	2	0	1

Next Cancel

4. Time Block Generation - Select a time block structure as confirmed

- Select a time block as confirmed with reference to the **estimated satisfaction rates** for subject allocation

Satisfaction Rate Calculation

Time Block Result	Estimated Satisfaction Rate		
	Top Priorities	All Options	
Combination 1	96.33%	98.88%	
Combination 2	98.17%	99.30%	
Combination 3	98.50%	99.56%	
Combination 4	99.00%	99.68%	

View Time Block

Elective Subject Group	Block 1	Block 2	Block 3
	CHEM Group 2	CHEM Group 1	企業 組別 1
	企業 組別 2	BIO Group 1	BIO Group 2
	PHY Group 1	ICT Group 2	PHY Group 2
	ICT Group 1	經濟 組別 1	經濟 組別 2
	視藝	地理	旅遊
	ECON	M1	中史

Allocation Algorithm Choices: [Choice 1](#) Elective Subject Group Distribution: [Choice 1](#) Compulsory Block: -

5. Create a customised time block structure

- Create a customised time block by the “New” button or edit and save an existing time block as a new one.

Time Block > Generate/ Maintain Time Blocks Related Link(s) ▾

[Generate Time Blocks](#) ▾ **+ New** [Import from File](#) [Export](#)

Satisfaction Rate Calculation

Time Block Result	Estimated Satisfaction Rate		
	Top Priorities	All Options	
Combination 1	96.33%	98.88%	🗑️
Combination 2	98.17%	99.30%	🗑️
Combination 3	98.50%	99.56%	🗑️
✓ Combination 4	99.00%	99.68%	🗑️

Update Time Block A Draggable cell A Fixed cell

Elective Subject Group	Block 1	Block 2	Block 3
企業 組別 2	CHEM Group 2	CHEM Group 1	企業 組別 1
ECON	PHY Group 1	BIO Group 1	BIO Group 2
經濟 組別 1	ICT Group 1	ICT Group 2	PHY Group 2
經濟 組別 2	視藝	地理	旅遊
		M1	中史

[Save](#) [Save As...](#) [Reset](#) [Cancel](#)

5. Create a customised time block structure

- Calculate estimated satisfaction rate of the customised time block structure

Time Block > **Generate/ Maintain Time Blocks** Related Link(s) ▾

▾

Satisfaction Rate Calculation

Time Block Result	Estimated Satisfaction Rate		
	Top Priorities	All Options	
Combination 1	96.33%	98.88%	<input type="button" value="Delete"/>
Combination 2	98.17%	99.30%	<input type="button" value="Delete"/>
Combination 3	98.50%	99.56%	<input type="button" value="Delete"/>
<input checked="" type="checkbox"/> Combination 4	99.00%	99.68%	<input type="button" value="Delete"/>
Combination 5			<input type="button" value="Delete"/>

View Time Block Fixed cell

Elective Subject Group	Block 1	Block 2	Block 3
	CHEM Group 2	CHEM Group 1	企業 組別 1
	PHY Group 1	BIO Group 1	BIO Group 2
	ICT Group 1	ICT Group 2	PHY Group 2
	視藝	地理	旅遊
	ECON	M1	中史
	經濟 組別 1	經濟 組別 2	企業 組別 2


Allocation Algorithm Choices: - Elective Subject Group Distribution: - Compulsory Block: -

6. Calculation of satisfaction rate (top priorities vs all options)

- Duplicated/crashed elective subjects with lower priorities are not counted

	Allocated Subjects/Modules
	Options to be cleaned

No. of Elective Subjects taken by the student = 3

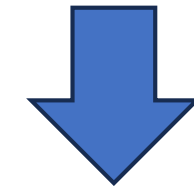
Option	1	2	3	4	5	6
Elective Subjects	BIO	生物 	CHEM	PHY	ECON	GEO
Allocation 1	1		2	3	4	5
Allocation 2	1	2	3	4	5	6
Allocation 3	1	2	3	4	5	6

6. Calculation of satisfaction rate (top priorities vs all options)

- **Top priorities:** calculate allocated subjects in top 3 priorities
- **All options:** calculate allocated subjects in all options

Allocated Subjects/Modules
Options to be cleaned

No. of elective subjects taken by the student = 3



Option	1	2	3	4	5	Allocated Options	Satisfaction Rate	
	Elective Subjects						Top Priorities	All Options
Allocation 1	1	生物	2	3	4	1, 2, 3	100%	100%
Allocation 2	1	2	3	4	5	2, 3, 4	100/3+ 100/3+ 0 = 66.67%	100/3+ 100/3+ 100/4 = 91.67%
Allocation 3	1	2	3	4	5	2, 3, 5	100/3+ 100/3+ 0 = 66.67%	100/3+ 100/3+ 100/5 = 86.67%



Elective Subject Allocation

1. New UI arrangement (by overall ranking)
2. Selecting students for partial allocation (using ctrl & shift keys)
3. New allocation method (elective subject queue)
4. New backtracking function

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- Filter the students by allocated subject / module
- Support multiple selections on the elective subjects

Subject / Module Filter

Filter students by Subject / Module

Student No.	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)
090241	3A	6	13	13	2	2	ICT (2)	BIO (1)	
082078	3A	7	19	19	2	2		經濟 (2)	PHY (1)
086122	3A	8	162	162	3	3	PHY (2)	ICT (1)	BIO (3)
097370	3A	9	176	176	3	3	視藝 (2)	經濟 (1)	旅遊 (3)

Legend: A Compulsory block not allocated A Insufficient Subject / Module allocated A Subject / Module not in top priorities

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- Allocated subjects / modules not in top priorities will be highlighted in blue

A Compulsory block not allocated
 A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities

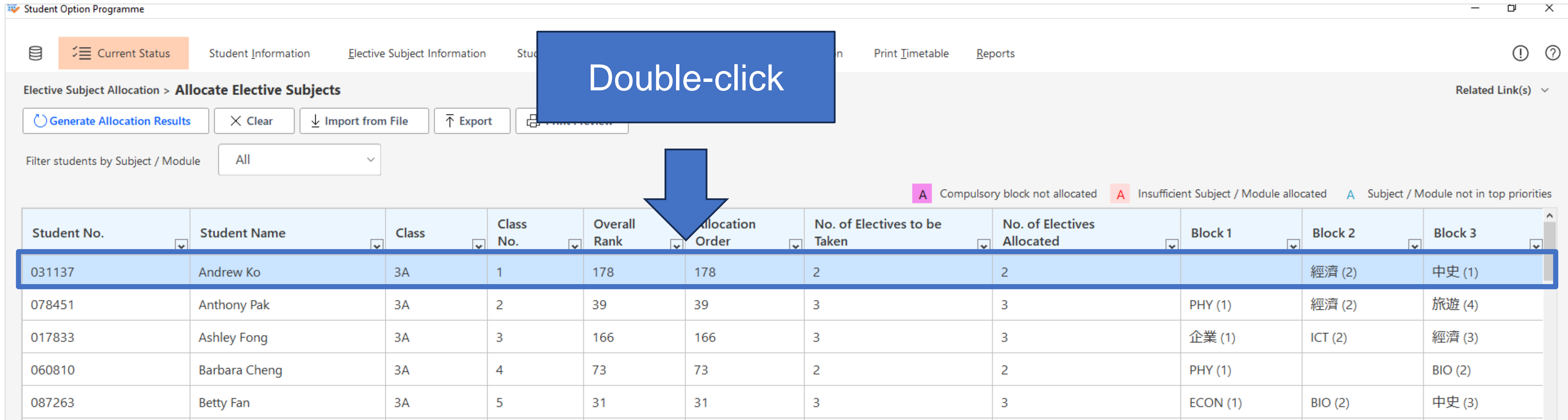
Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)
090241	Charles Dai	3A	6	13	13	2	2	ICT (2)	BIO (1)	
082078	Christopher Law	3A	7	19	19	2	2		經濟 (2)	PHY (1)
086122	Daniel Tse	3A	8	162	162	3	3	PHY (2)	ICT (1)	BIO (3)
097370	David Hui	3A	9	176	176	3	3	視藝 (2)	經濟 (1)	旅遊 (3)
027196	Donald Chiu	3A	10	9	9	3	3	PHY (3)	CHEM (1)	經濟 (2)
050421	Donna Leung	3A	11	106	106	3	3	視藝 (3)	經濟 (1)	企業 (2)
014786	Elizabeth Lau	3A	12	172	172	3	3	ECON (4)	CHEM (1)	BIO (2)
025334	Emily Tse	3A	13	38	38	2	2		ICT (1)	經濟 (2)
051759	James Li	3A	14	1	1	3	3	ICT (1)	BIO (2)	中史 (3)
096824	Jennifer Yau	3A	15	126	126	2	2		BIO (1)	旅遊 (2)
024041	Jessica Hung	3A	16	34	34	2	2		經濟 (1)	中史 (2)

Total no. of student(s): 200 No. of student(s) filtered: 200

Allocation Algorithm Choices: [Choice_1](#) Elective Subject Group Distribution: [Choice_1](#) Compulsory Block: -

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- Select and double click a student to view elective subject allocation result with the **student's options** or perform **manual allocation**



The screenshot displays the 'Student Option Programme' interface for 'Elective Subject Allocation > Allocate Elective Subjects'. A blue box labeled 'Double-click' with a downward arrow points to the first row of the table, which is highlighted in blue. The table lists students with their overall ranks and allocated subjects across three blocks.

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- The allocation result of the selected student will be displayed on the right

Generate Allocation Results
Clear
Import from File
Export
Print Preview

Filter students by Subject / Module All

A Compulsory block not allocated
 A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1
031137	Andrew Ko	3A	1	178	178	2	2	
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)
090241	Charles Dai	3A	6	13	13	2	2	ICT (2)
082078	Christopher Law	3A	7	19	19	2	2	
086122	Daniel Tse	3A	8	162	162	3	3	PHY (2)
097370	David Hui	3A	9	176	176	3	3	視藝 (2)
027196	Donald Chiu	3A	10	9	9	3	3	PHY (3)
050421	Donna Leung	3A	11	106	106	3	3	視藝 (3)
014786	Elizabeth Lau	3A	12	172	172	3	3	ECON (4)
025334	Emily Tse	3A	13	38	38	2	2	
051759	James Li	3A	14	1	1	3	3	ICT (1)
096824	Jennifer Yau	3A	15	126	126	2	2	
024041	Jessica Hung	3A	16	34	34	2	2	
080272	John Tsang	3A	17	55	55	3	3	視藝 (1)
090251	Joseph Liu	3A	18	110	110	3	3	ICT (2)
071030	Joshua Leuna	3A	19	96	96	2	2	視藝 (2)

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies
Allocated/quota Elective Subject Group with exceeded quota allocated to students
Allocated/quota Elective Subject Group with vacancies allocated to students

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6		25/40	
BIO	12		35/35	27/30
CHEM	4	30/30	33/35	
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		28/40	27/40
ECON	11	22/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	29/35		

Allocate Subject / Module
Withdraw Subject / Module
Cancel

Total no. of student(s): 200 No. of student(s) filtered: 200

Allocation Algorithm Choices: Choice_1 Elective Subject Group Distribution: Choice_1 Compulsory Block: -

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- Select the allocated subject and click “Withdraw Subject / Module” button to withdraw the selected subject manually

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6		25/40	
BIO	12		35/35	27/30
CHEM	4	30/30	33/35	
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		28/40	27/40
ECON	11	22/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	2		

Allocate Subject / Module **Withdraw Subject / Module** Cancel

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6		25/40	
BIO	12		35/35	27/30
CHEM	4	30/30	33/35	
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		27/40	27/40
ECON	11	22/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	29/35		

Allocate Subject / Module Withdraw Subject / Module Cancel

1. Elective Subject Allocation - New UI arrangement (by overall ranking)

- Select the non-allocated subject and click “Allocate Subject / Module” button to allocate the subject manually

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6		25/40	
BIO	12		35/35	27/30
CHEM	4	30/30	33/35	
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		27/40	27/40
ECON		22/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	29/35		

Allocate Subject / Module Withdraw Subject / Module Cancel

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6			
BIO	12			
CHEM	4	30/30		
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		27/40	27/40
ECON	11	23/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	29/35		

Allocate Subject / Module Withdraw Subject / Module Cancel

Enhanced to allow the excess of elective subject group quota by manual allocation

2. Elective Subject Allocation – Selecting students for partial allocation (using ctrl & shift keys)

- **Ctrl key** + Left click: To select multiple non-consecutive students
- **Shift key** + Left click: To select a range of consecutive emails

Elective Subject Allocation > **Allocate Elective Subjects** Related Link(s) ▾

[Generate Allocation Results](#) [Clear](#) [Import from File](#) [Export](#) [Print Preview](#)

Filter students by Subject / Module

A Compulsory block not allocated A Insufficient Subject / Module allocated A Subject / Module not in top priorities

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)
090241	Charles Dai	3A	6	13	13	2	2	ICT (2)	BIO (1)	
082078	Christopher Law	3A	7	19	19	2	2		經濟 (2)	PHY (1)
086122	Daniel Tse	3A	8	162	162	3	3	PHY (2)	ICT (1)	BIO (3)

3. Elective Subject Allocation - New allocation method (elective subject queue)

Elective Subject Availability

Subject / Module	Availability		
	Block 1	Block 2	Block 3
M1		25/40	
BIO		35/35	27/30
CHEM	30/30	33/35	
PHY	33/35		30/30
中史			32/35
經濟		28/40	27/40
ECON	22/40		
地理		35/35	
旅遊			34/35
企業	29/30		35/35
ICT	35/35	27/30	
視藝	29/35		

Elective Subject Allocation Results

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	Priority	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178			2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39			3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166			3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73			2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31			3	3	ECON (1)	BIO (2)	中史 (3)
090241	Charles Dai	3A	6	13			2	2	ICT (2)	BIO (1)	
082078	Christopher Law	3A	7	19			2	2		經濟 (2)	PHY (1)
086122	Daniel Tse	3A	8	162			3	3	PHY (2)	ICT (1)	BIO (3)
097370	David Hui	3A	9	176			3	3	視藝 (2)	經濟 (1)	旅遊 (3)
027196	Donald Chiu	3A	10	9			3	3	PHY (3)	CHEM (1)	經濟 (2)
050421	Donna Leung	3A	11	106			3	3	視藝 (3)	經濟 (1)	企業 (2)
014786	Elizabeth Lau	3A	12	172			3	3	ECON (4)	CHEM (1)	BIO (2)
025334	Emily Tse	3A	13	38			2	2		ICT (1)	經濟 (2)
051759	James Li	3A	14	1			3	3	ICT (1)	BIO (2)	中史 (3)
096824	Jennifer Yau	3A	15	126			2	2		BIO (1)	旅遊 (2)
024041	Jessica Hung	3A	16	34			2	2		經濟 (1)	中史 (2)
080272	John Tsang	3A	17	55			3	3	視藝 (1)	經濟 (2)	中史 (3)
090251	Joseph Liu	3A	18	110			3	3	ICT (2)	BIO (1)	旅遊 (3)
071030	Joshua Leung	3A	19	96			2	2	視藝 (2)	經濟 (1)	

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies
A Compulsory block not allocated A Insufficient Subject / Module allocated
A Subject / Module not in top priorities Allocated/quota Selected Subject / Module

Last Modified by: school
Current Data File: data.sop

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Select one of the subjects on the Elective Subject Availability table
- Students will be sorted by the allocation order of the selected subject

<Allocated/quota> Elective Subject Group with exceeded quota
 <Allocated/quota> Elective Subject Group with vacancies

A Compulsory block not allocated A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities Allocated/quota Selected Subject / Module

Subject / Module	Availability			Student No.	Student Name	Class	Allocation Order (M1)	Priority (M1)	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
	Block 1	Block 2	Block 3										
M1		25/40		4777	Yn Yeung	3C	5	6	3	3	ICT (2)	M1 (1)	PHY (3)
BIO		35/35	27/30	7777	min Liu	3C	4	78	3	3	ICT (2)	M1 (1)	企業 (3)
CHEM	30/30	33/35		082910	Christine Lo	3C	8	81	3	3	ECON (2)	M1 (1)	PHY (3)
PHY	33/35		30/30	071410	Jack Ding	3C	18	105	3	3	ICT (2)	M1 (1)	企業 (3)
中史			32/35	056874	Cheryl Yeung	3D	9	133	3	3	CHEM (2)	M1 (1)	旅遊 (3)
經濟		28/40	27/40	038448	Ann Fong	3D	3	159	3	3	CHEM (3)	M1 (1)	中史 (2)
ECON	22/40			027737	Julia Wan	3E	24	165	3	3	CHEM (3)	M1 (1)	中史 (2)
地理		35/35		012076	Rachel Cheng	3C	33	14	3	3	ICT (1)	M1 (2)	企業 (3)
旅遊			34/35	070956	Jose Tsui	3C	21	41	3	3	ICT (1)	M1 (2)	PHY (3)
企業	29/30		35/35	098781	Raymond Cheng	3C	34	72	3	3	CHEM (3)	M1 (2)	PHY (1)
ICT	35/35	27/30		077358	Julie Lam	3C	23	99	3	3	CHEM (1)	M1 (2)	中史 (3)
視藝	29/35			095523	Tyler Lo	3C	37	141	3	3	CHEM (1)	M1 (2)	企業 (3)
				016896	Diana Poon	3E	14	188	3	3	視藝 (3)	M1 (2)	中史 (1)
				046733	Lawrence Ngai	3D	29	191	3	3	ICT (3)	M1 (2)	企業 (1)
				016680	Christina Fan	3C	7	2	3	3	CHEM (1)	M1 (3)	企業 (2)
				089241	Sophia Cheung	3D	37	12	3	3	ICT (1)	M1 (3)	旅遊 (2)

Allocate Subject / Module Withdraw Subject / Module

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Filter the students by Subject / Module
- Support multiple selections on the elective subjects

The screenshot shows the 'Student Option Programme' interface for 'Elective Subject Allocation > Allocate Elective Subjects'. A 'Subject / Module Filter' dialog box is open, allowing users to select multiple subjects for filtering. The dialog lists the following subjects with checkboxes: All, M1, BIO, CHEM, PHY, 中史, and ECON. The 'Filter' button is highlighted in blue.

Legend for allocation status:

- A Compulsory block not allocated
- A Insufficient Subject / Module allocated
- A Subject / Module not in top priorities
- Allocated/quota Selected Subject / Module

Subject / Module	Block 1	Block 2	Block 3
M1			
BIO			
CHEM	30/30		
PHY	33/35		
中史			32/35

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	Priority	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
03137	Andrew Ko	3A	1	178			2	2		經濟 (2)	中史 (1)
07451	Anthony Pak	3A	2	39			3	3	PHY (1)	經濟 (2)	旅遊 (4)
01833	Ashley Fong	3A	3	166			3	3	企業 (1)	ICT (2)	經濟 (3)
000810	Barbara Cheng	3A	4	73			2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31			3	3	ECON (1)	BIO (2)	中史 (3)

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Select and double click a student to view elective subject allocation result **with the student's options**

Elective Subject Allocation > Allocate Elective Subjects Related Link(s) ▾

[Generate Allocation Results](#) [Clear](#) [Import from File](#) [Export](#) [Print](#)

Filter students by Subject / Module

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies

A Compulsory block not allocated A Insufficient Subject / Module allocated
A Subject / Module not in top priorities **Allocated/quota** Selected Subject / Module

Subject / Module	Availability			Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	Priority	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
	Block 1	Block 2	Block 3												
M1		25/40		031137	Andrew Ko	3A	1	178			2	2		經濟 (2)	中史 (1)
BIO		35/35	27/30	078451	Anthony Pak	3A	2	39			3	3	PHY (1)	經濟 (2)	旅遊 (4)
CHEM	30/30	33/35		017833	Ashley Fong	3A	3	166			3	3	企業 (1)	ICT (2)	經濟 (3)
PHY	33/35		30/30	060810	Barbara Cheng	3A	4	73			2	2	PHY (1)		BIO (2)
中史			32/35	087263	Betty Fan	3A	5	31			3	3	ECON (1)	BIO (2)	中史 (3)
經濟		28/40	27/40	090241	Charles Dai	3A	6	13			2	2	ICT (2)	BIO (1)	

Double-click

3. Elective Subject Allocation - New allocation method (elective subject queue)

- The allocation result of the selected student will be displayed in a prompt window

Student Option Programme

Current Status | Student Information | Elective Subject Information | Student Options | Time Block | Elective Subject Allocation | Print Timetable | Reports

Elective Subject Allocation > **Allocate Elective Subjects**

Generate Allocation Results | Clear | Import from File | Export | Print Preview

Filter students by Subject / Module: All

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies

Subject / Module	Availability		
	Block 1	Block 2	Block 3
M1		25/40	
BIO		35/35	28/30
CHEM	30/30	33/35	
PHY	35/35		28/30
中史			33/35
經濟		26/40	29/40
ECON	21/40		
地理		35/35	
旅遊			34/35
企業	30/30		34/35
ICT	35/35	27/30	

Student No.	Student Name	Class	Class No.	Overall Rank	Alloc Order
031137	Andrew Ko	3A	1	178	
078451	Anthony Pak	3A	2	39	
017833	Ashley Fong	3A	3	166	
060810	Barbara Cheng	3A	4	73	
087263	Betty Fan	3A	5	31	
090241	Charles Dai	3A	6	13	
082078	Christopher Law	3A	7	19	
086122	Daniel Tse	3A	8	162	
097370	David Hui	3A	9	176	
027196	Donald Chiu	3A	10	9	
050421	Donna Leung	3A	11	106	
014786	Elizabeth Lau	3A	12	172	

Student Options

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies
Allocated/quota Elective Subject Group with exceeded quota allocated to students
Allocated/quota Elective Subject Group with vacancies allocated to students

Subject / Module	Priority	Block 1	Block 2	Block 3
M1	12		25/40	
BIO	5		35/35	28/30
CHEM	4	30/30	33/35	
PHY	9	35/35		28/30
中史	7			33/35
經濟	3		26/40	29/40
ECON	8	21/40		
地理	10		35/35	
旅遊	6			34/35
企業	1	30/30		34/35
ICT	2	35/35	27/30	

Close

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Select a student and click “Withdraw Subject / Module” button to withdraw the selected subject manually

<Allocated/quota> Elective Subject Group with exceeded quota
 <Allocated/quota> Elective Subject Group with vacancies

A Compulsory block not allocated A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities Allocated/quota Selected Subject / Module

Subject / Module	Availability			Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order (M1)	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
	Block 1	Block 2	Block 3											
M1		25/40		047362	Carolyn Yeung	3C	5	67	1	1	3	ICT (2)	M1 (1)	PHY (3)
BIO		35/35	27/30	077470	Benjamin Liu	3C	4	78	2	1	3	ICT (2)	M1 (1)	企業 (3)
CHEM	30/30	33/35		082910	Christine Lo	3C	8	81	3	1	3	ECON (2)	M1 (1)	PHY (3)
PHY	33/35		30/30	071410	Jack Ding	3C	18	105	4	1	3	ICT (2)	M1 (1)	企業 (3)
中史			32/35	056874	Cheryl Yeung	3D	9	133	5	1	3	CHEM (2)	M1 (1)	旅遊 (3)
經濟		28/40	27/40	038448	Ann Fong	3D	3	159	6	1	3	CHEM (3)	M1 (1)	中史 (2)
ECON	22/40			027737	Julia Wan	3E	24	165	7	1	3	CHEM (3)	M1 (1)	中史 (2)
地理		35/35		012076	Rachel Cheng	3C	33	14	8	2	3	ICT (1)	M1 (2)	企業 (3)
旅遊			34/35	070956	Jose Tsui	3C	21	41	9	2	3	ICT (1)	M1 (2)	PHY (3)
企業	29/30		35/35	098781	Raymond Cheng	3C	34	72	10	2	3	CHEM (3)	M1 (2)	PHY (1)
ICT	35/35	27/30		077358	Julie Lam	3C	23	99	11	2	3	CHEM (1)	M1 (2)	中史 (3)
視藝	29/35			095523	Tyler Lo	3C	37	141	12	2	3	CHEM (1)	M1 (2)	企業 (3)
				016896	Diana Poon	3E	14	188	13	2	3	視藝 (3)	M1 (2)	中史 (1)
				046733	Lawrence Ngai		29	191	14	2	3	ICT (3)	M1 (2)	企業 (1)
				016680	Christina Fan		7	2	15	3	3	CHEM (1)	M1 (3)	企業 (2)
				089241	Sophia Cheung		37	12	16	3	3	ICT (1)	M1 (3)	旅遊 (2)

Allocate Subject / Module Withdraw Subject / Module

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Select a student and click “Allocate Subject / Module” button to allocate the subject manually

<Allocated/quota> Elective Subject Group with exceeded quota
 <Allocated/quota> Elective Subject Group with vacancies

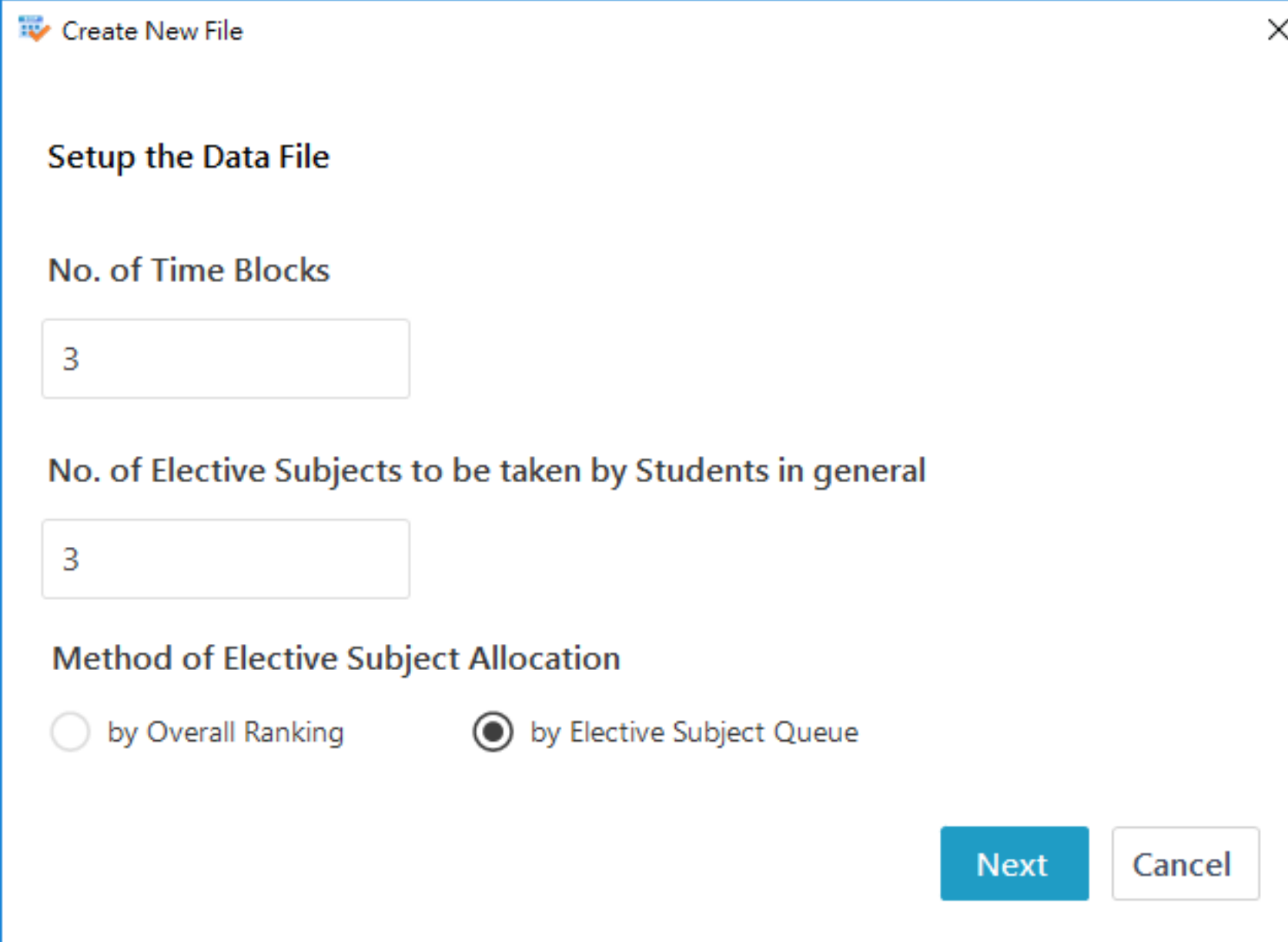
A Compulsory block not allocated A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities Allocated/quota Selected Subject / Module

Subject / Module	Availability			Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order (M1)	Priority (M1)	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
	Block 1	Block 2	Block 3												
M1		25/40		016680	Christina Fan	3C	7	2	15	3	3	3	CHEM (1)		企業 (2)
BIO		35/35	27/30	089241	Sophia Cheung	3D	37	12	16	3	3	3	ICT (1)	M1 (3)	旅遊 (2)
CHEM	30/30	33/35		095296	Gabriel Wong	3E	18	22	17	3	2	2	ECON (2)		中史 (1)
PHY	33/35		30/30	079726	Arthur Yau	3D	4	27	18	3	2	2		CHEM (2)	PHY (1)
中史			32/35	061111	Catherine Lau	3C	6	46	19	3	3	3	視藝 (2)	M1 (3)	企業 (1)
經濟		28/40	27/40	051972	Judith Tsang	3D	26	47	20	3	3	3	CHEM (1)	M1 (3)	企業 (2)
ECON	22/40			040452	Lori Tong	3E	27	87	21	3	2	2	視藝 (1)		中史 (2)
地理		35/35		025806	Lauren Yip	3C	27	107	22	3	3	3	CHEM (2)	M1 (3)	旅遊 (1)
旅遊			34/35	086501	Carl Ding	3D	8	128	23	3	3	3	ICT (2)	M1 (3)	PHY (1)
企業	29/30		35/35	012042	Wayne Hui	3E	39	153	24	3	3	3	ICT (2)	M1 (3)	旅遊 (1)
ICT	35/35	27/30		022166	Gloria Tsui	3D	16	161	25	3	3	3	CHEM (1)	M1 (3)	PHY (2)
視藝	29/35			028525	Gerald Tsang	3D	15	174	26	3	3	3	ICT (1)	M1 (3)	中史 (2)
				032111	Evelyn Ding	3D	13	177	27	3	2	2	ICT (1)		企業 (2)
				027830	Joan Wong	3D	24	57	28	4	2	2	ICT (2)	地理 (1)	
				043191	Dennis Yau	3C	10	92	29	4	3	3	PHY (3)	CHEM (2)	BIO (1)
				098930	Sharon Sit	3B	36	102	30	4	3	3	PHY (2)	CHEM (3)	BIO (1)

Allocate Subject / Module Withdraw Subject / Module

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Select the allocation method when user creates a new SOP file



The screenshot shows a dialog box titled "Create New File" with a close button (X) in the top right corner. The dialog is divided into sections for data file setup. The "No. of Time Blocks" and "No. of Elective Subjects to be taken by Students in general" are both set to 3. The "Method of Elective Subject Allocation" section has two radio button options: "by Overall Ranking" (unselected) and "by Elective Subject Queue" (selected). A blue arrow points to the "by Elective Subject Queue" radio button. At the bottom right, there are "Next" and "Cancel" buttons.

Create New File

Setup the Data File

No. of Time Blocks

3

No. of Elective Subjects to be taken by Students in general

3

Method of Elective Subject Allocation

by Overall Ranking by Elective Subject Queue

Next Cancel

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Define students' subject allocation orders of all elective subjects offered

The screenshot displays the 'Student Option Programme' interface, specifically the 'Elective Subject Allocation Orders' section. The interface includes a navigation menu with options like 'Current Status', 'Student Information', 'Elective Subject Information', 'Student Options', 'Time Block', 'Elective Subject Allocation', 'Print Timetable', and 'Reports'. Below the navigation, there are buttons for 'Generate Allocation Orders', 'Save', 'Clear', 'Import from File', 'Export', and 'Print Preview'. A dropdown menu for 'Subject / Module' is set to 'All'. A table lists student allocation orders with columns for Student No., Student Name, Class, Class No., Overall Rank, and various subject orders (M1, BIO, CHEM, PHY, 中史, 經濟, ECON, 地理, 旅遊). A red warning icon indicates a 'Duplicated allocation order'.

Student No.	Student Name	Class	Class No.	Overall Rank	M1 Order	BIO Order	CHEM Order	PHY Order	中史 Order	經濟 Order	ECON Order	地理 Order	旅遊 Order
031137	Andrew Ko	3A	1	178	80	198	89	92	7	22	169	124	102
078451	Anthony Pak	3A	2	39	46	112	110	4	136	36	24	154	48
017833	Ashley Fong	3A	3	166	197	91	88	158	112	54	116	166	84
060810	Barbara Cheng	3A	4	73	122	36	147	9	100	71	56	177	158
087263	Betty Fan	3A	5	31	43	30	70	163	25	140	7	193	89
090241	Charles Dai	3A	6	13	42	2	157	120	188	134	82	160	31
082078	Christopher Law	3A	7	19	62	138	173	1	38	24	52	195	111
086122	Daniel Tse	3A	8	162	79	65	103	46	197	135	137	103	173
097370	David Hui	3A	9	176	60	197	139	114	54	5	106	161	32
027196	Donald Chiu	3A	10	9	116	152	2	48	59	29	93	51	164
050421	Donna Leung	3A	11	106	165	146	118	128	193	19	110	54	59
014786	Elizabeth Lau	3A	12	172	174	46	18	113	35	161	43	137	64
025334	Emily Tse	3A	13	38	120	153	142	51	96	32	189	63	165
051759	James Li	3A	14	1	84	28	92	67	24	139	182	168	199
096824	Jennifer Yau	3A	15	126	167	17	80	172	130	153	28	85	18
024041	Jessica Hung	3A	16	34	44	188	126	182	11	1	105	142	45
080272	John Tsang	3A	17	55	184	72	145	165	27	23	131	184	70
090251	Joseph Liu	3A	18	110	58	13	132	143	139	168	85	48	25
071030	Joshua Leung	3A	19	96	151	130	116	58	191	18	91	71	36
017892	Karen Lam	3A	20	168	198	80	138	192	93	8	108	162	65
031889	Kimberly Ding	3A	21	52	48	127	6	27	87	50	145	57	95

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Import students' subject allocation orders

Student Option Programme

Current Status Student Information Elective Subject Information Student Options Time Block Elective Subject Allocation Print Timetable Reports

Elective Subject Allocation > Elective Subject Allocation Orders

Generate Allocation Orders Save Import from File Export Print Preview

Subject / Module All

Student No.	Student Name	Class	Class No.	Overall Rank	M1 Order	BIO Order	CHEM Order	PHY Order	中史 Order	經
031137	Andrew Ko	3A	1	178	80	198	89	92	7	22
078451	Anthony Pak	3A	2	39	46	112	110	4	136	36
017833	Ashley Fong	3A	3	166	197	91	88	158	112	54
060810	Barbara Cheng	3A	4	73	122	36	147	9	100	71
087263	Betty Fan	3A	5	31	43	30	70	163	25	14
090241	Charles Dai	3A	6	13	42	2	157	120	188	13
082078	Christopher Law	3A	7	19	62	138	173	1	38	24
086122	Daniel Tse	3A	8	162	79	65	103	46	197	13

3. Elective Subject Allocation - New allocation method (elective subject queue)

- Generate allocation order by overall ranking, random or keep the existing value

Elective Subject Allocation > Elective Subject Allocation Orders

Generate Allocation Orders Save Clear Import from File Export Print Preview

Subject / Module All

Student No.	Student Name	Class	Class No.	Overall Rank	M1 Order	BIO Order	CHEM Order	PHY Order	中史 Order	經濟 Order	ECON Order	地理 Order
031137	Andrew Ko	3A	1	178						22	169	124
078451	Anthony Pak	3A	2	39						36	24	154
017833	Ashley Fong	3A	3	166						54	116	166
060810	Barbara Cheng	3A	4	73						71	56	177
087263	Betty Fan	3A	5	31						140	7	193
090241	Charles Dai	3A	6	13						134	82	160
082078	Christopher Law	3A	7	19						24	52	195
086122	Daniel Tse	3A	8	162						135	137	103
097370	David Hui	3A	9	176						5	106	161
027196	Donald Chiu	3A	10	9						29	93	51
050421	Donna Leung	3A	11	106						19	110	54
014786	Elizabeth Lau	3A	12	172						161	43	137
025334	Emily Tse	3A	13	38						32	189	63
051759	James Li	3A	14	1	84	28	92	67	24	139	182	168

Generate Allocation Order

Generation Method: Keep the existing value Apply to All

Subject / Module	Generation Method
M1	Keep the existing value
BIO	Keep the existing value
CHEM	Keep the existing value
PHY	Overall Ranking
中史	Random
經濟	Keep the existing value
ECON	Keep the existing value
地理	Keep the existing value

Generate Cancel

4. New backtracking function

- SOP will try to **improve the allocation results** so as to increase the overall satisfaction rates of students

<Allocated/quota> Elective Subject Group with exceeded quota
<Allocated/quota> Elective Subject Group with vacancies
Allocated/quota Elective Subject Group with exceeded quota allocated to students
Allocated/quota Elective Subject Group with vacancies allocated to students

Subject / Module	Priority ▲	Block 1	Block 2	Block 3
化學		0/1		1/1
文學	1		1/1	
經濟	2		1/1	1/2
企業	3	1/1	0/1	
物理	4	1/1	0/1	

Allocation result of student A

4. New backtracking function

- SOP will swap the elective subject allocated **without affecting the satisfaction rate of student B** to free up quota for student A

<Allocated/quota> Elective Subject Group with exceeded quota
 <Allocated/quota> Elective Subject Group with vacancies
 Allocated/quota Elective Subject Group with exceeded quota allocated to students
 Allocated/quota Elective Subject Group with vacancies allocated to students

Subject / Module	Priority ▲	Block 1	Block 2	Block 3
文學			1/1	
物理		1/1	0/1	
經濟	1		1/1	1/2
企業	2	1/1	0/1	
化學	3	0/1		1/1

Allocation result of student B



Other Improvements

1. New UI of printing timetables
2. Allocation of subjects / modules **without duplication**
3. Setup elective subject groups with **different quotas**
4. Allocate elective subjects to students taking different no. of elective subjects
5. No merged cells in the reports exported in Excel format
6. Data security

1. New UI of printing timetables

- The UI of workflow guiding users to go through the steps required for printing timetables

The screenshot displays the 'Student Option Programme' interface. At the top, a navigation menu includes 'Current Status', 'Student Information', 'Elective Subject Information', 'Student Options', 'Time Block', 'Elective Subject Allocation', 'Print Timetables', and 'Reports'. The 'Print Timetables' section features a workflow diagram with four steps: 'Export Time Block Result to WebSAMS', 'Export Allocation Result to WebSAMS', 'Import Master Timetable', and 'Print Timetables'. Below this, the 'Timetable' dropdown is set to 'test2024S'. The 'Filter and Sorting' section includes input fields for 'Student Class' (From: 3A, to: 3A), 'Student No.' (From: , to:), and 'Sort Order' (Student Name selected). A 'Print Preview' button is located at the bottom left. The 'Preview' window shows a list of student numbers on the left and a 'Student Timetable' report on the right. The report includes the following details:

```
Class : Student Number : 00001094
Student Name : CHAN XXX TING
```

At the bottom of the interface, it states 'Last Modified by: ritatckuo' and 'Current Data File: workshop.sop'.

2. Allocation of subjects / modules without duplication

- No longer need to use **different MOIs** to represent BAFS (Business) and BAFS (Accounting)

The screenshot displays a web-based interface for managing elective subjects. The main table lists subjects with columns for Subject Code, Short Name, Full Name, and language options (Chinese, English, Chinese Putonghua, Other Language). Two rows are highlighted with blue boxes: BA (Business Accounting) and BM (Business Management). A 'View Subject / Module' form is open, showing fields for Subject Code, MOI#, Short Name, and Full Name. A blue arrow points from the BA/BM rows in the table to the MOI(1) field in the form, indicating that the MOI field is used to distinguish between Business and Accounting subjects.

Subject Code	Subject / Module (Short Name)	Subject / Module (Full Name)	Chinese (Cantonese)	English	Chinese (Putonghua)	Other Language
M1	數延一	數學 (延伸部分 - 單...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M2	數延二	數學 (延伸部分 - 單...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BIO	生物	生物	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CHEM	化學	化學	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PHY	物理	物理	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CLIT	文學	中國文學	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ELIT	英學	英語文學	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CHIS	中史	中國歷史	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ECON	經濟	經濟	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ERS	宗教	倫理與宗教 (中學...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEO	地理	地理	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HIST	歷史	歷史	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
THS	旅遊	旅遊與款待	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BAFS	企業	企業、會計與財務概...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BA	企業會計	企業會財 (會計)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BM	企業管理	企業會財 (商業管理)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DAT	設計	設計與應用科技	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HMSC	健社	健康管理與社會關懷	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ICT	資訊	資訊及通訊科技	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FS&T	食品科學	科技與生活 (食品科...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total no. of elective subject(s) / subject module(s) listed for selection: 25 Total no. of elective subject(s) / subject module(s) offered by the school: 12

Remarks: M1 / M2 is the Extended Part of the senior secondary Mathematics curriculum
(Source: Mathematics Education Key Learning Area Curriculum Guide (Primary 1 - Secondary 6) (2017))

Last Modified by: school Current Data File: data.sop

3. Setup elective subject groups with different quotas

- No longer need to use **dummy students**



Elective Subject Group and Quota Setup

Subject / Module	NOR*	No. of Elective Subject Groups	Group 1 Quota	Group 2 Quota	Group 3 Quota
M1	24	1	40		
BIO	63	2	35	30	
CHEM	64	2	35	30	
PHY	63	3	40	40	40
中史	33	1	35		
經濟	54	2	40	40	
ECON	21	1	40		
地理	36	1	35		
旅遊	35	1	35		
企業	64	2	35	30	
ICT	61	2	35	30	

*NOR - No. of Requests according to the no. of elective subjects students need to take

4. Allocate elective subjects to students taking different no. of elective subjects

- no longer need to use dummy subjects

Elective Subject Allocation > Allocate Elective Subjects

Generate Allocation Results Clear Import from File Export Print Preview

Filter students by Subject / Module: All

A Compulsory block not allocated
 A Insufficient Subject / Module allocated
 A Subject / Module not in top priorities

Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)
090241	Charles Dai	3A	6	13	13	2	2	ICT (2)	BIO (1)	
082078	Christopher Law	3A	7	19	19	2	2		經濟 (2)	PHY (1)
086122	Daniel Tse	3A	8	162	162	3	3	PHY (2)	ICT (1)	BIO (3)
097370	David Hui	3A	9	176	176	3	3	視藝 (2)	經濟 (1)	旅遊 (3)
027196	Donald Chiu	3A	10	9	9	3	3	PHY (3)	CHEM (1)	經濟 (2)
050421	Donna Leung	3A	11	106	106	3	3	視藝 (3)	經濟 (1)	企業 (2)
014786	Elizabeth Lau	3A	12	172	172	3	3	ECON (4)	CHEM (1)	BIO (2)
025334	Emily Tse	3A	13	38	38	2	2		ICT (1)	經濟 (2)
051759	James Li	3A	14	1	1	3	3	ICT (1)	BIO (2)	中史 (3)
096824	Jennifer Yau	3A	15	126	126	2	2		BIO (1)	旅遊 (2)
024041	Jessica Hung	3A	16	34	34	2	2		經濟 (1)	中史 (2)
080272	John Tsang	3A	17	55	55	3	3	視藝 (1)	經濟 (2)	中史 (3)
090251	Joseph Liu	3A	18	110	110	3	3	ICT (2)	BIO (1)	旅遊 (3)
071030	Joshua Leung	3A	19	96	96	2	2	視藝 (2)	經濟 (1)	

Total no. of student(s): 200 No. of student(s) filtered: 200

Allocation Algorithm Choices: Choice 1 Elective Subject Group Distribution: Choice 1 Compulsory Block: -

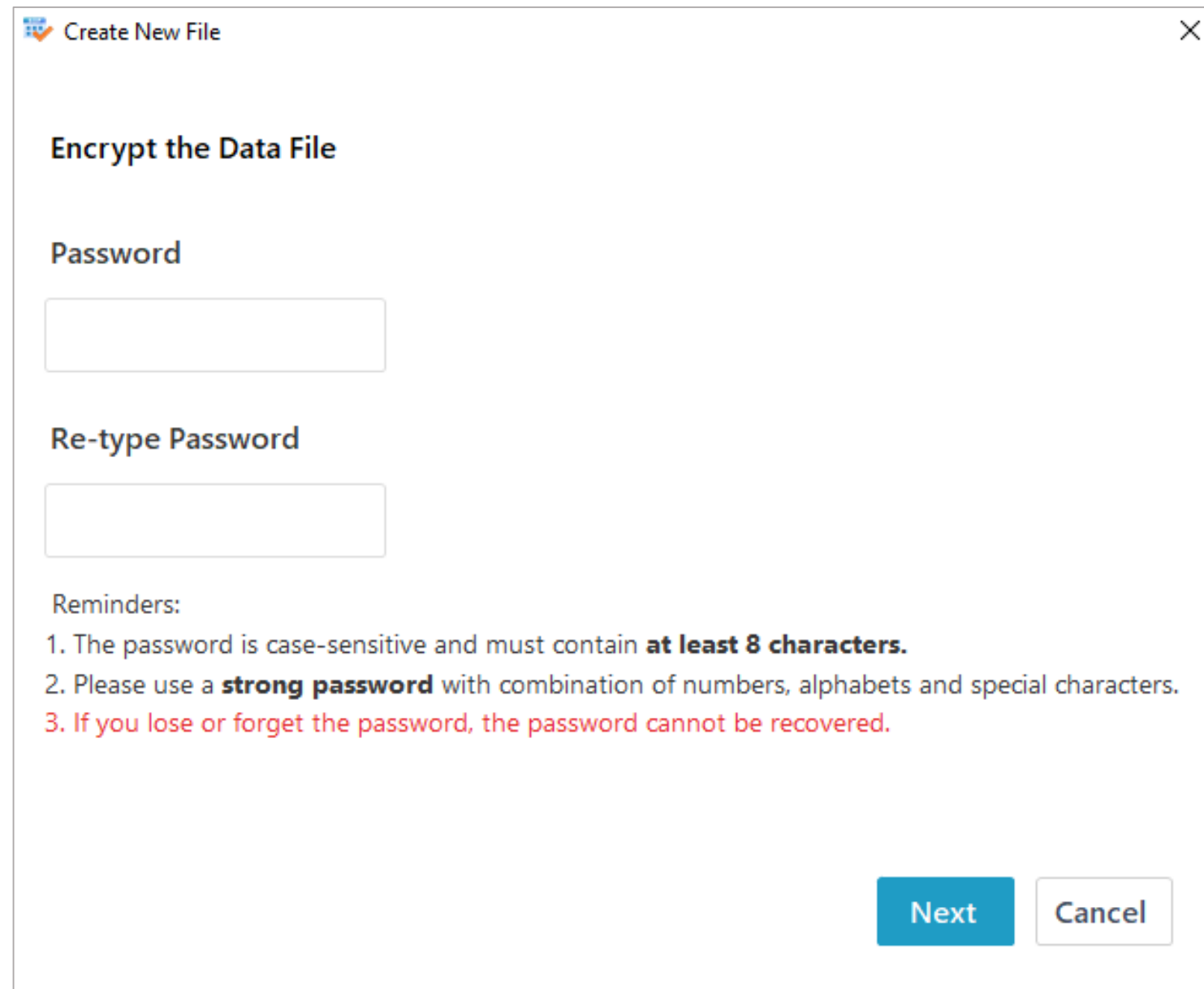
5. No merged cells in the reports exported in Excel format

- Facilitate easy data manipulation

1	Report ID: RPT004										Date:04/03/2024
Student Option Programme											
List of Student Options in Priority Order & Elective Subject Allocation											
3											Page:1/1
4											
5	Stn No.	Name	Class	Class Number	Rank	Option 01	Option 02	Option 03	Option 04	Option 05	Option 06
6	S3A01	S3A01	3A	1	40	CHEM	BIO	GEO	ECON	歷史	中史
7	S3A02	S3A02	3A	2	14	PHY	資訊	M2	企業管理	ECON	視藝
8	S3A03	S3A03	3A	3	9	PHY	CHEM	資訊	BIO	ECON	M2
9	S3A04	S3A04	3A	4	11	CHEM	PHY	M2	資訊	BIO	ECON
10	S3A05	S3A05	3A	5	43	CHEM	BIO	PHY	M2	資訊	旅遊
11	S3A06	S3A06	3A	6	33	BIO	CHEM	ECON	M2	企業管理	PHY
12	S3A07	S3A07	3A	7	64	BIO	CHEM	資訊	GEO	PHY	ECON
13	S3A08	S3A08	3A	8	93	歷史	中史	資訊	ECON	旅遊	企業管理
14	S3A09	S3A09	3A	9	35	BIO	CHEM	GEO	ECON	旅遊	PHY
15	S3A10	S3A10	3A	10	17	歷史	中史	文學	視藝	旅遊	ECON
16	S3A11	S3A11	3A	11	23	PHY	BIO	CHEM	M2	GEO	企業管理
17	S3A12	S3A12	3A	12	16	PHY	BIO	中史	歷史	CHEM	文學
18	S3A13	S3A13	3A	13	57	BIO	視藝	中史	歷史	GEO	ECON
19	S3A14	S3A14	3A	14	58	ECON	M2	企業管理	BIO	PHY	資訊
20	S3A15	S3A15	3A	15	45	BIO	CHEM	ECON	GEO	企業管理	文學
21	S3A16	S3A16	3A	16	81	企業管理	ECON	M2	GEO	BIO	資訊
22	S3A17	S3A17	3A	17	30	PHY	資訊	M2	CHEM	ECON	企業管理
23	S3A18	S3A18	3A	18	36	CHEM	BIO	ECON	歷史	中史	旅遊

6. Data security

- Protecting the data file by user-defined password



Create New File

Encrypt the Data File

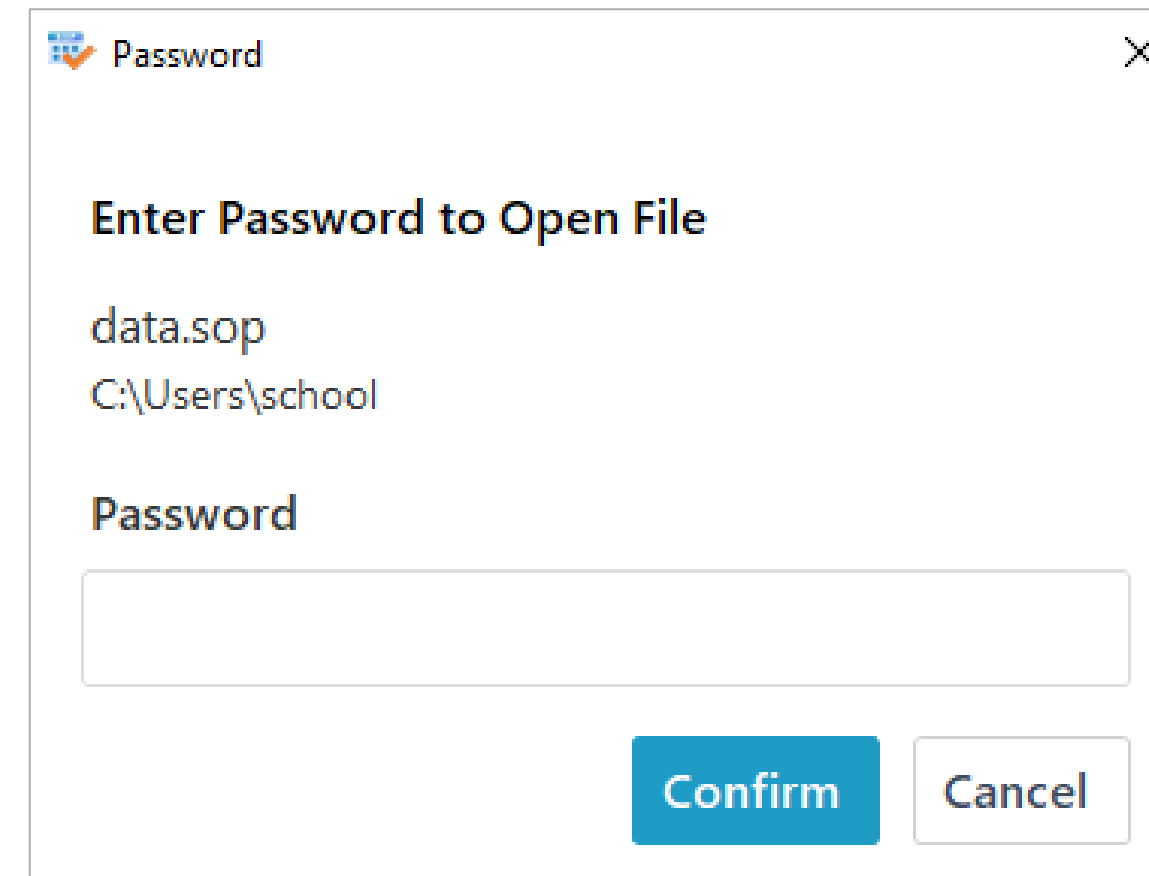
Password

Re-type Password

Reminders:

1. The password is case-sensitive and must contain **at least 8 characters**.
2. Please use a **strong password** with combination of numbers, alphabets and special characters.
3. If you lose or forget the password, the password cannot be recovered.

Next Cancel



Password

Enter Password to Open File

data.sop
C:\Users\school

Password

Confirm Cancel