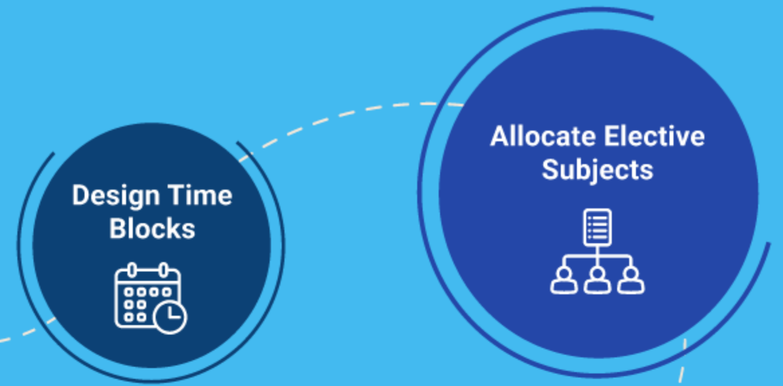
Student Option Programme (SOP)



Online Briefing : The Redeveloped SOP

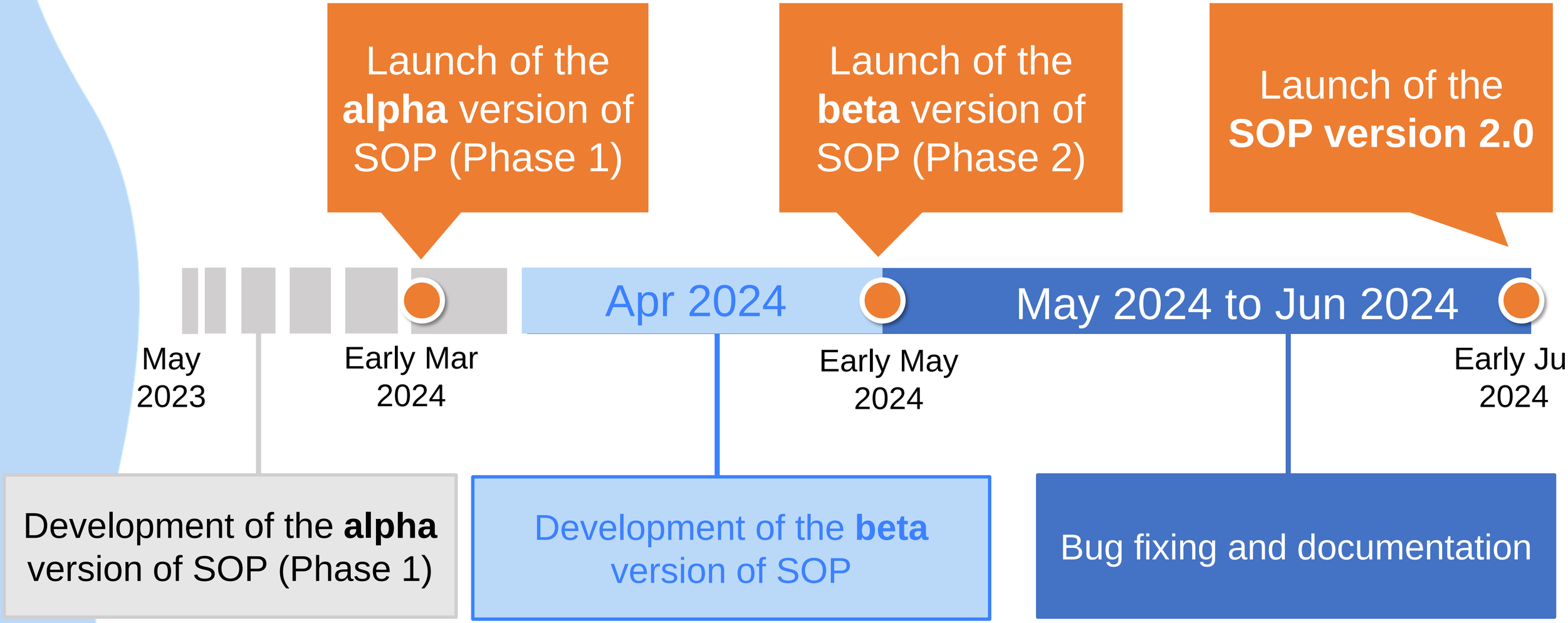
25 March 2024

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



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

Main Functions

Time Block Design

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

Elective Subject Allocation

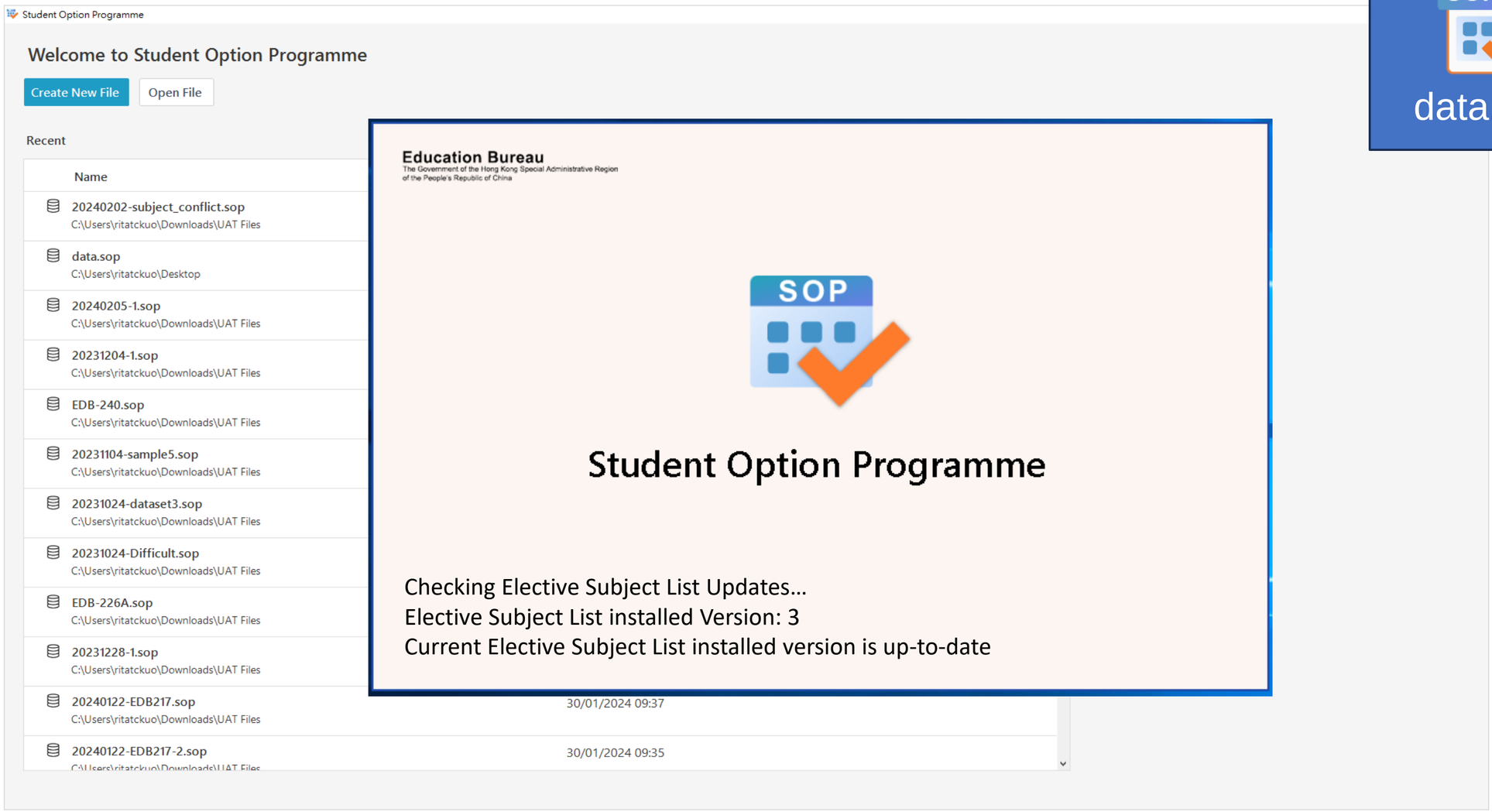
- Allocate elective subjects to students based on their options, allocation orders and time block arrangement.

Timetable Printing

- Print student's individual timetable.

New/Enhanced Functions of the Redeveloped SOP

User Interface



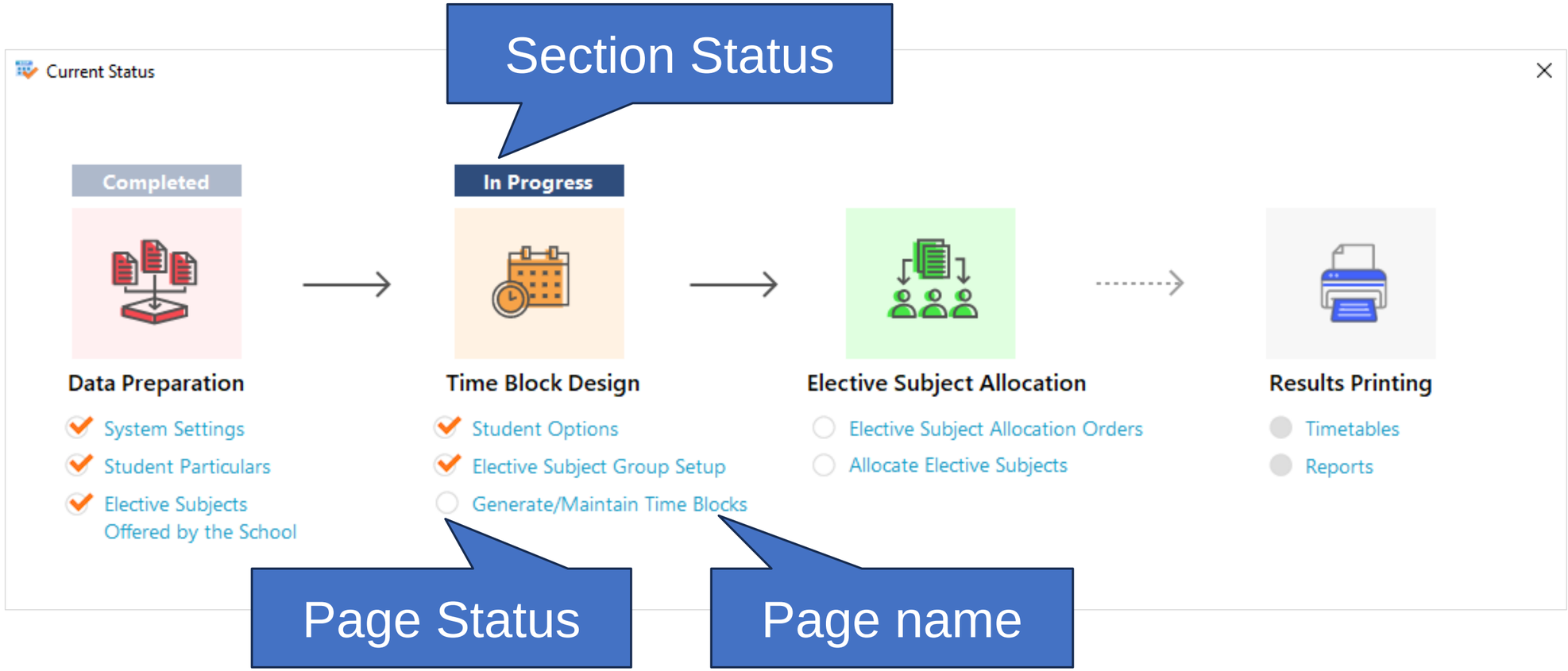
User Interface - Current Status

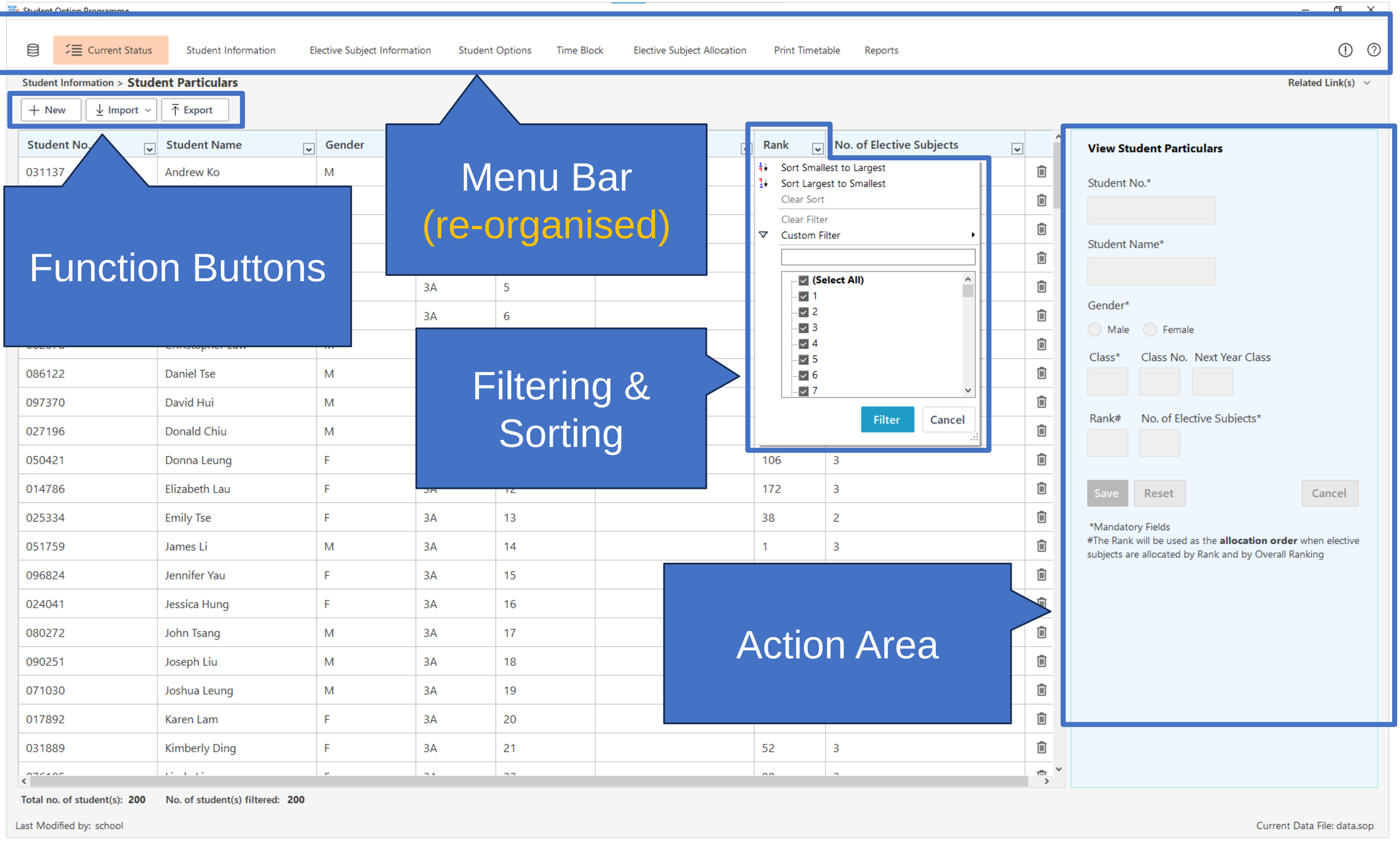
- Show after data file is opened *or* click

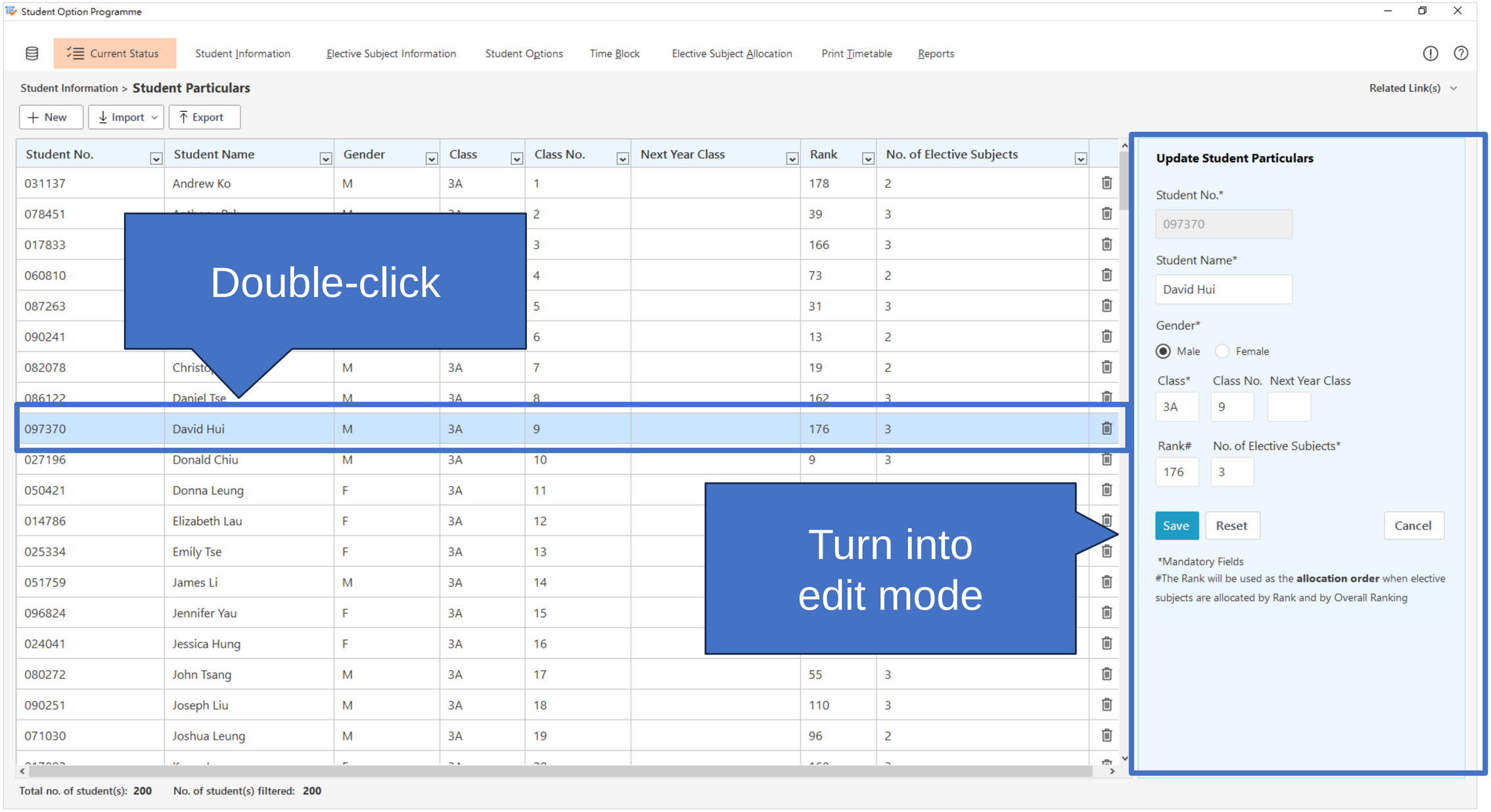
button in the main menu
- Click the page name to direct to the page

✔ = **finished** items

○ = **unfinished** items




Current Status
Student Information
Elective Subject Information
Student Options
Time Block
Elective Subject Allocation
Print Timetable
Reports
Student Information > Student Particulars
Related Link(s)
New
Import
Export
Function Buttons
Menu Bar
(re-organised)
Filtering &
Sorting
Action Area
Student No.
Student Name
Gender
Rank
No. of Elective Subjects
Sort Smallest to Largest
Sort Largest to Smallest
Clear Sort
Clear Filter
Custom Filter
(Select All)
Filter
Cancel
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
031137 Andrew Ko M
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 2
051759 James Li M 3A 14 1 3
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 3
Total no. of student(s): 200
No. of student(s) filtered: 200
Last Modified by: school
Current Data File: data.sop


Student Option Programme
Current Status
Student Information
Elective Subject Information
Student Options
Time Block
Elective Subject Allocation
Print Timetable
Reports
Student Information > Student Particulars
Related Link(s)
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 2 39 3
017833 3 166 3
060810 4 73 2
087263 5 31 3
090241 6 13 2
082078 M 3A 7 19 2
086122 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
Double-click
Turn into edit mode
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
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.**

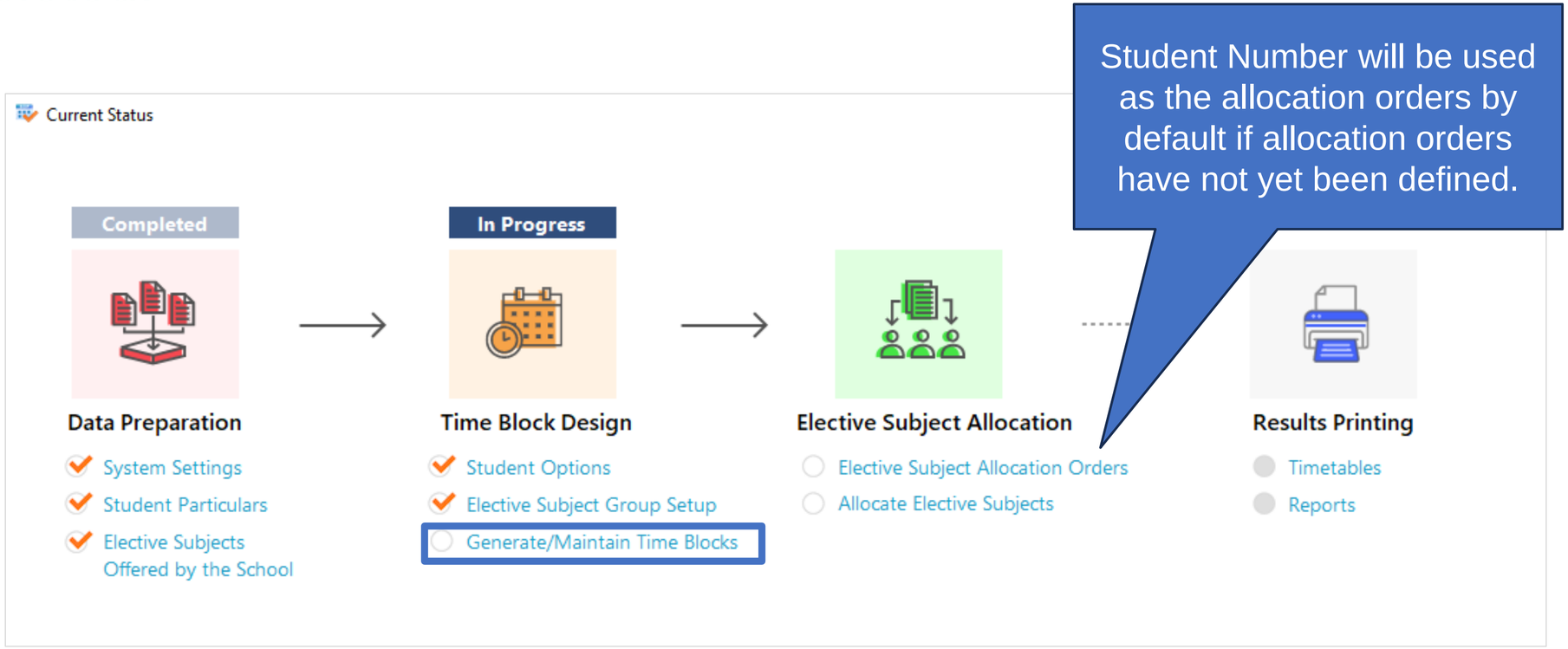
- **SOP helps schools to design and optimise the combination of elective subjects for the time blocks based on schools' various constraints (e.g. putting ECON and BAFS into different time blocks if they are taught by the same teacher).**

Block 1	Block 2	Block 3
• PHY • ECON • ...	• BIO • BAFS • ...	• CHEM • HIST • ...

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

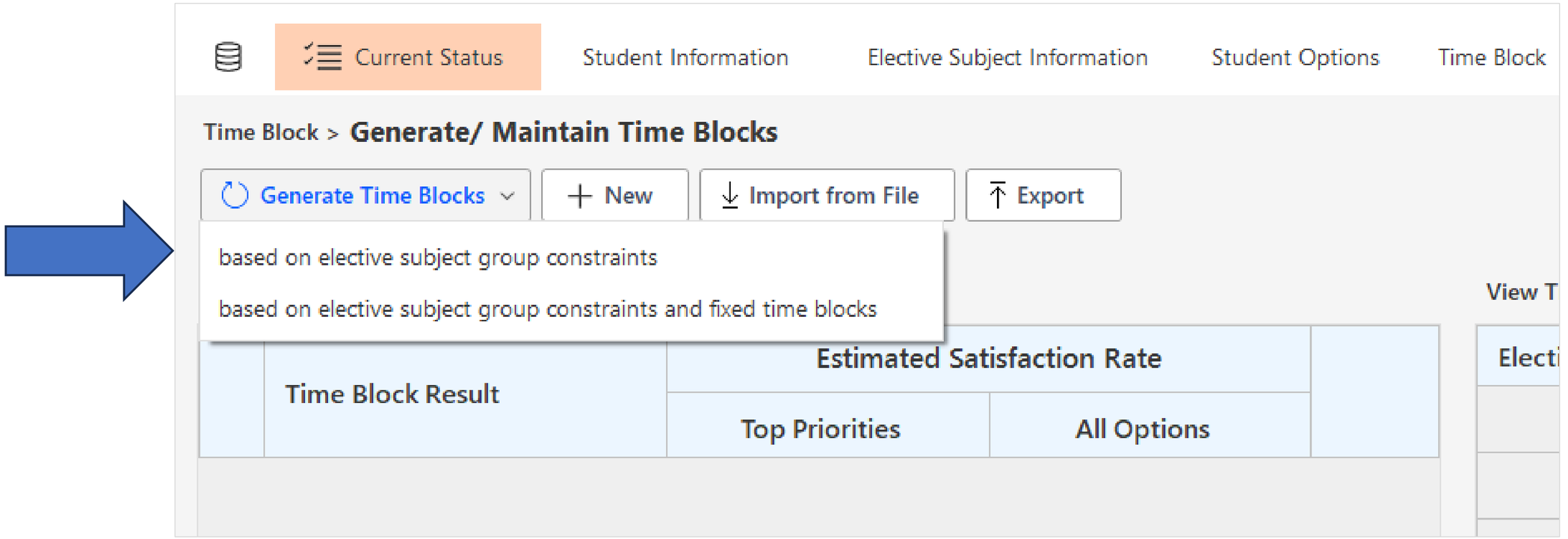
2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

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



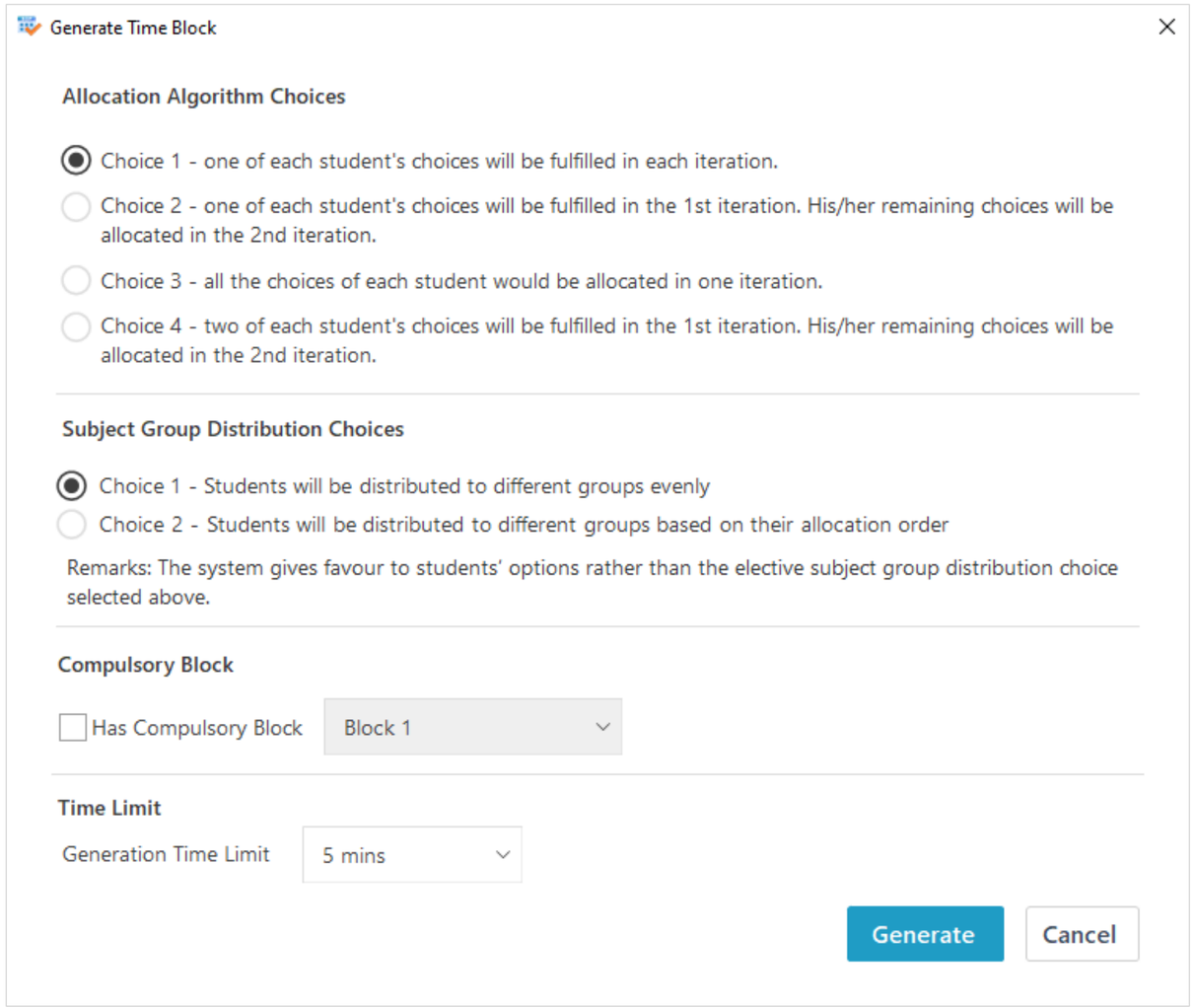
2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

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



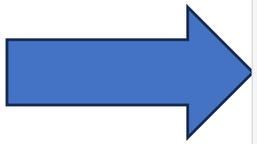
2. Time Block Generation - Generate time blocks to find the best one with estimated satisfaction rate within a time limit

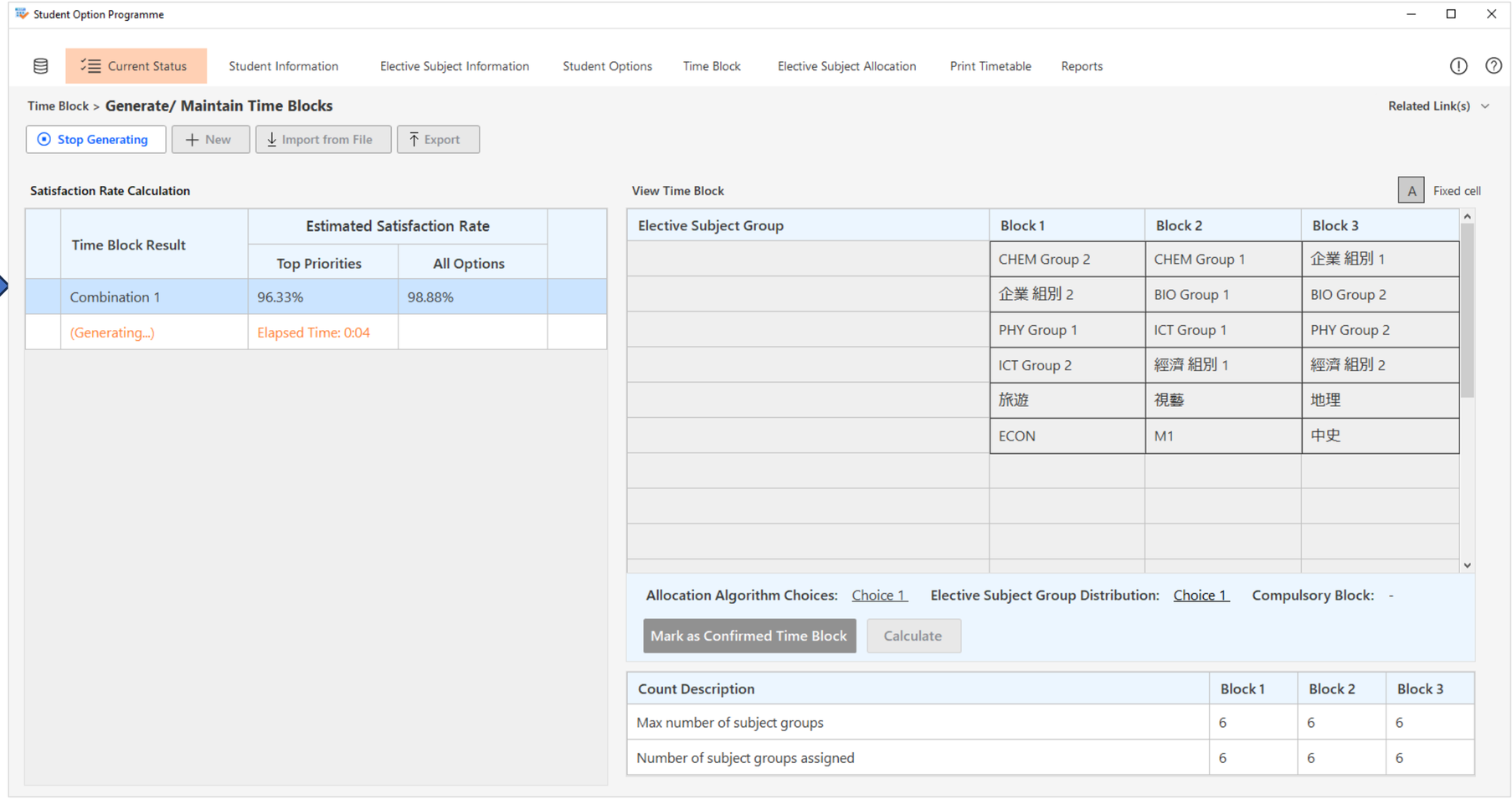
- Select the algorithm used by schools and the time limit for the generation.



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

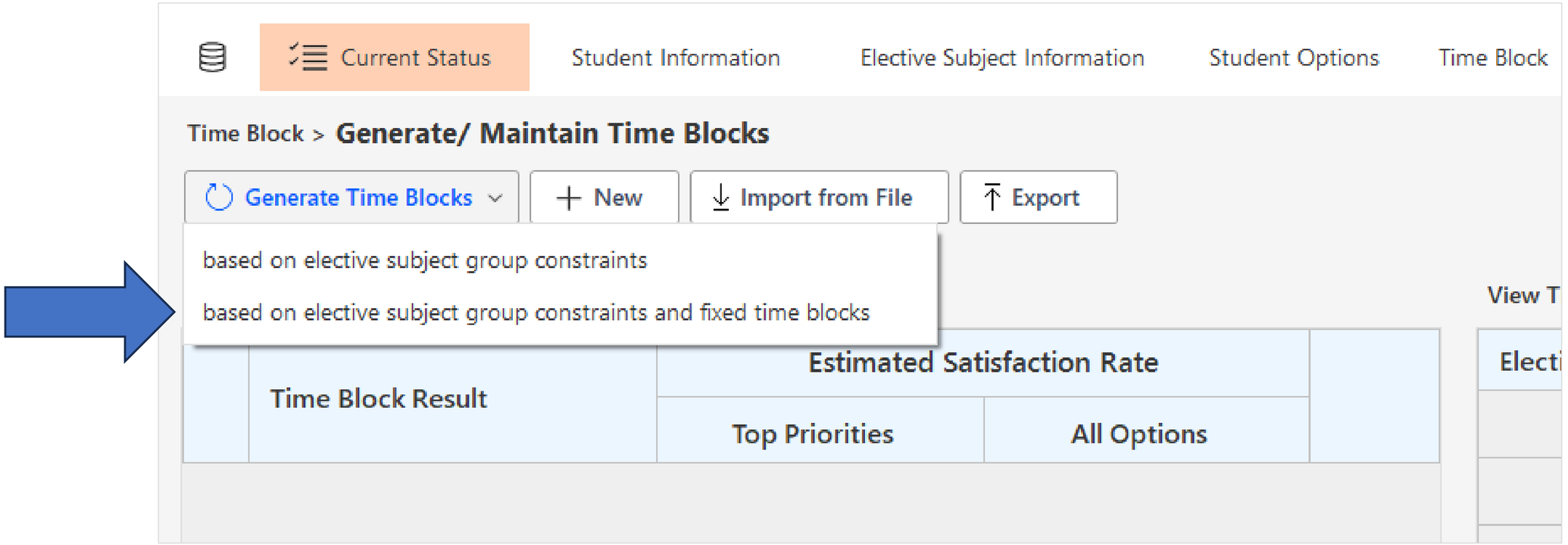
- System starts to generate the time blocks.
- User could click on the generated time block results to check the details.





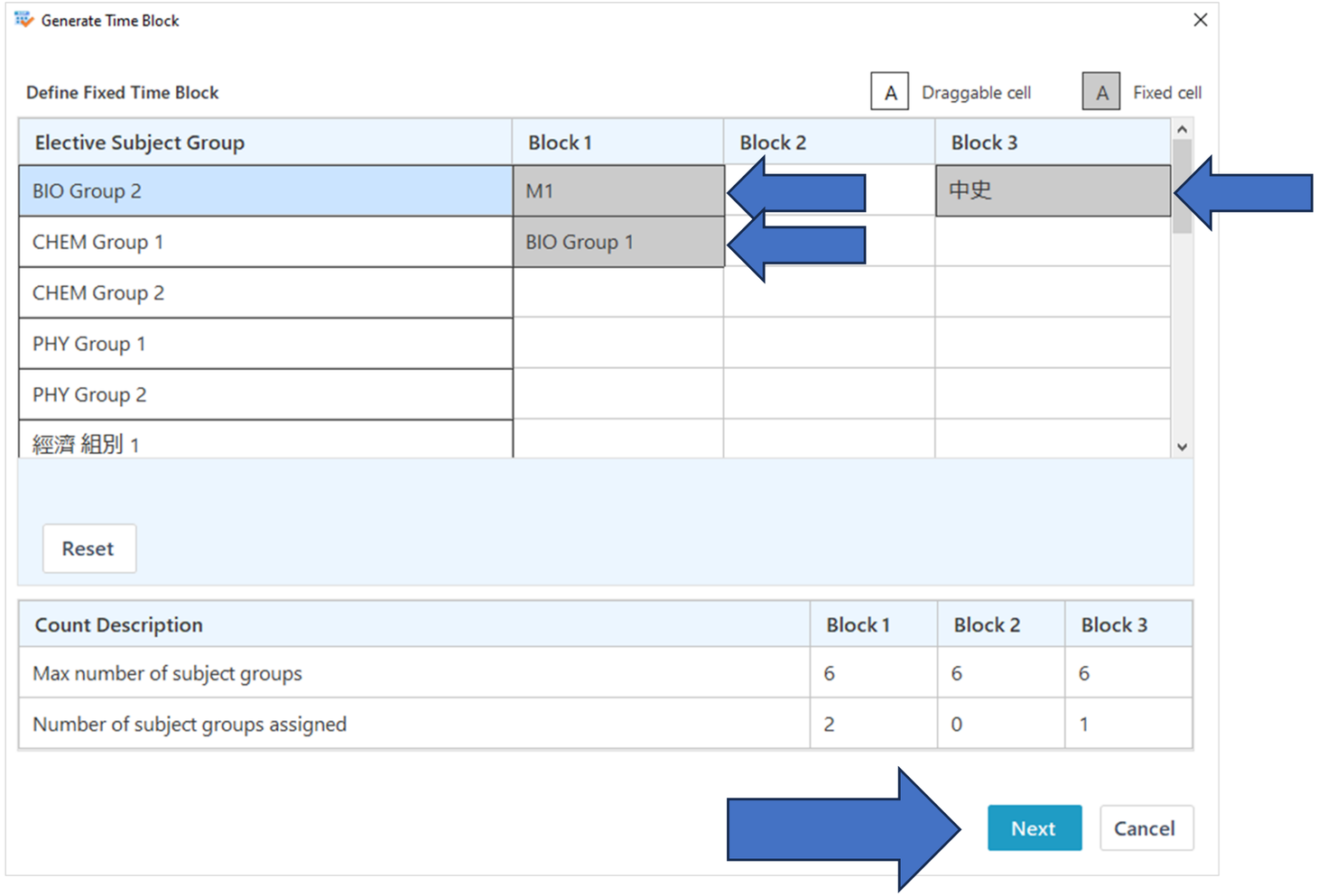
3. Time Block Generation - Generation based on fixed time blocks

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



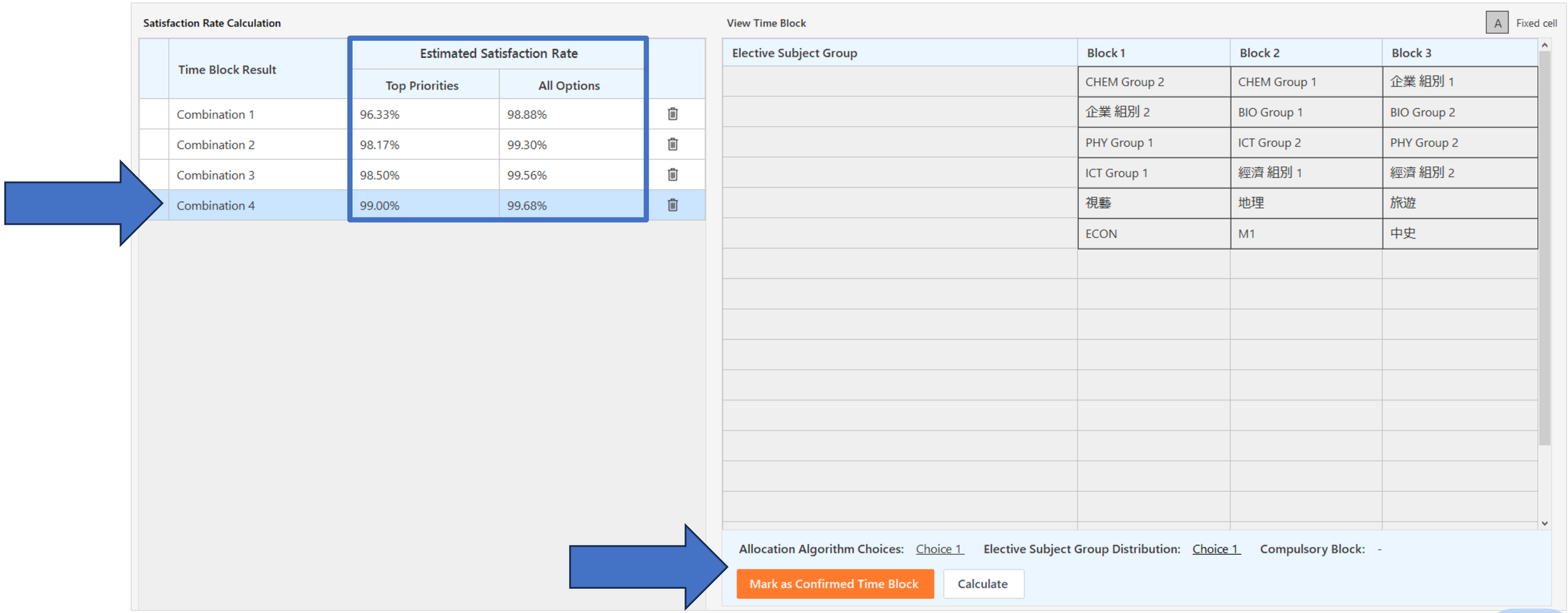
3. Time Block Generation - Generation based on fixed time blocks

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



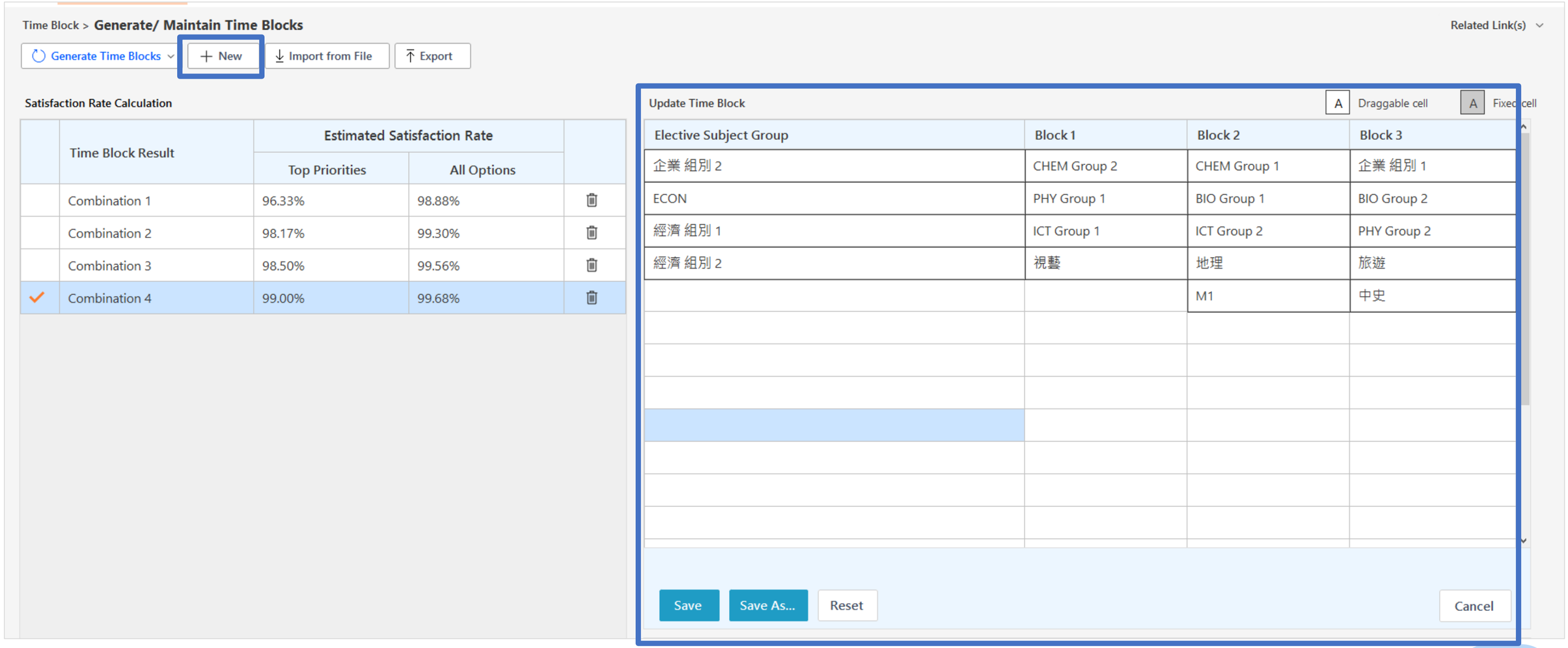
4. Time Block Generation - Select a time block structure as confirmed

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



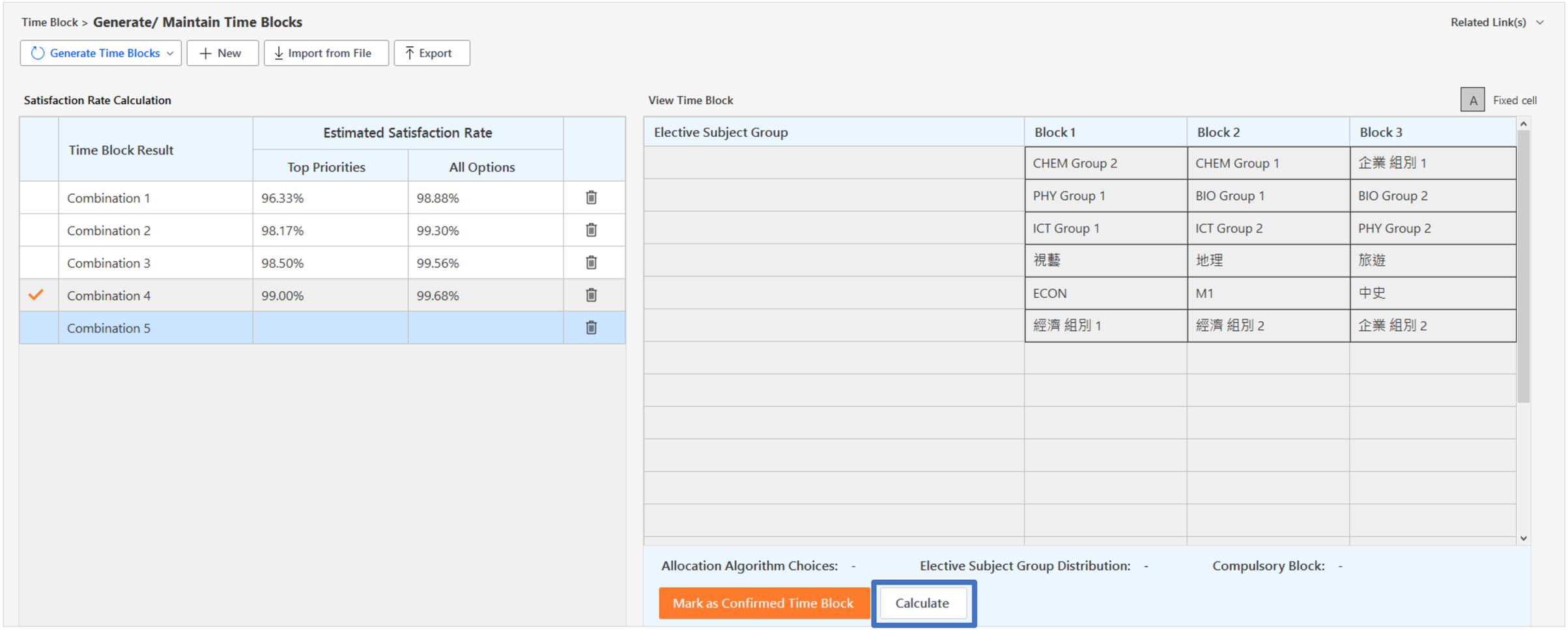
5. Create a customised time block structure

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



5. Create a customised time block structure

- Calculate estimated satisfaction rate of the customised time block structure



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

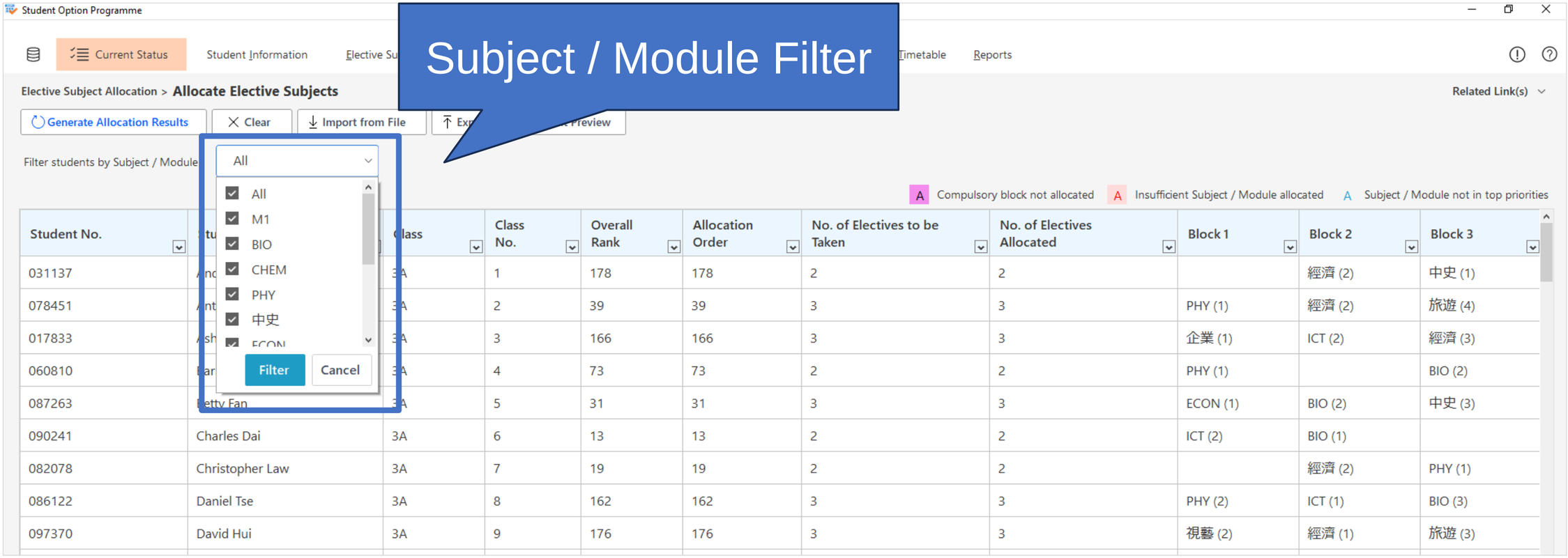
Option	1	2	3	4	5	Allocated Options	Satisfaction Rate	
Elective Subjects	BIO	生物	CHEM	PHY	ECON		Top Priorities	All Options
Allocation 1	1		2	3	4	1, 2, 3	100%	100%
Allocation 2	1	2	3	4	5	2, 3, 4	100/3+ 100/3+ 0 = **66.67%**	100/3+ 100/3+ 100/4 = **91.67%**
Allocation 3	1	2	3	4	5	2, 3, 5	100/3+ 100/3+ 0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



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	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)

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

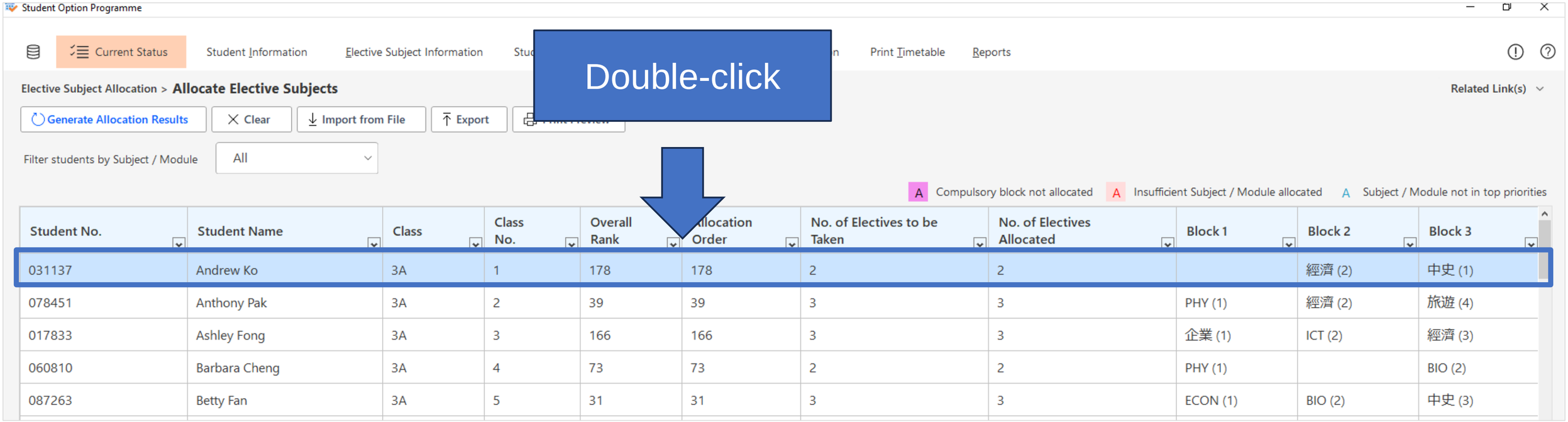
Student No.	Student Name	Class	Class No.	Overall Rank	Allocation Order	No. of Electives to be Taken	No. of Electives Allocated	Block 1	Block 2	Block 3
031137	Andrew Ko	3A	1	178	178	2	2		經濟 (2)	中史 (1)
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (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



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
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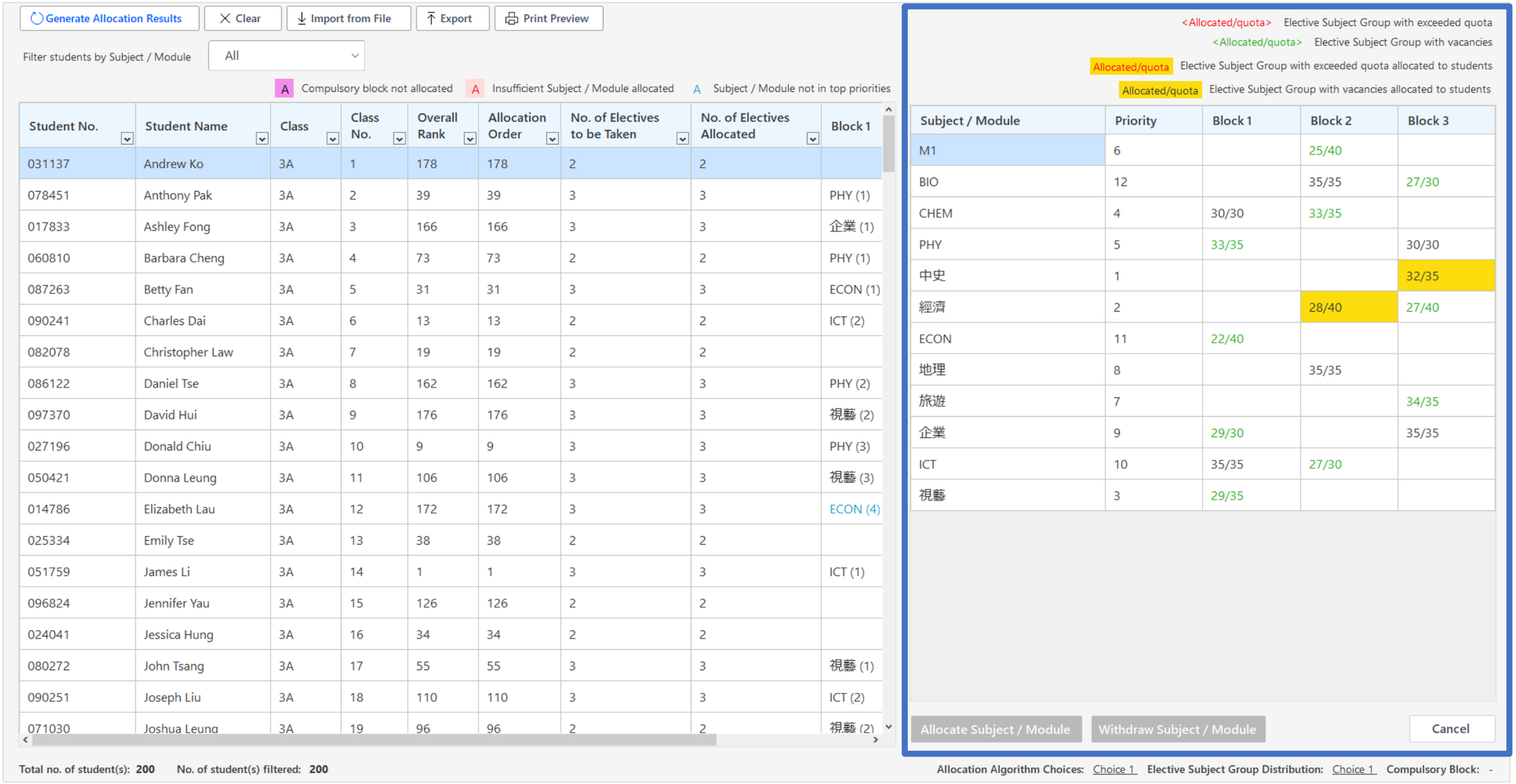
078451	Anthony Pak	3A	2	39	39	3	3	PHY (1)	經濟 (2)	旅遊 (4)
017833	Ashley Fong	3A	3	166	166	3	3	企業 (1)	ICT (2)	經濟 (3)
060810	Barbara Cheng	3A	4	73	73	2	2	PHY (1)		BIO (2)
087263	Betty Fan	3A	5	31	31	3	3	ECON (1)	BIO (2)	中史 (3)

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

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



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

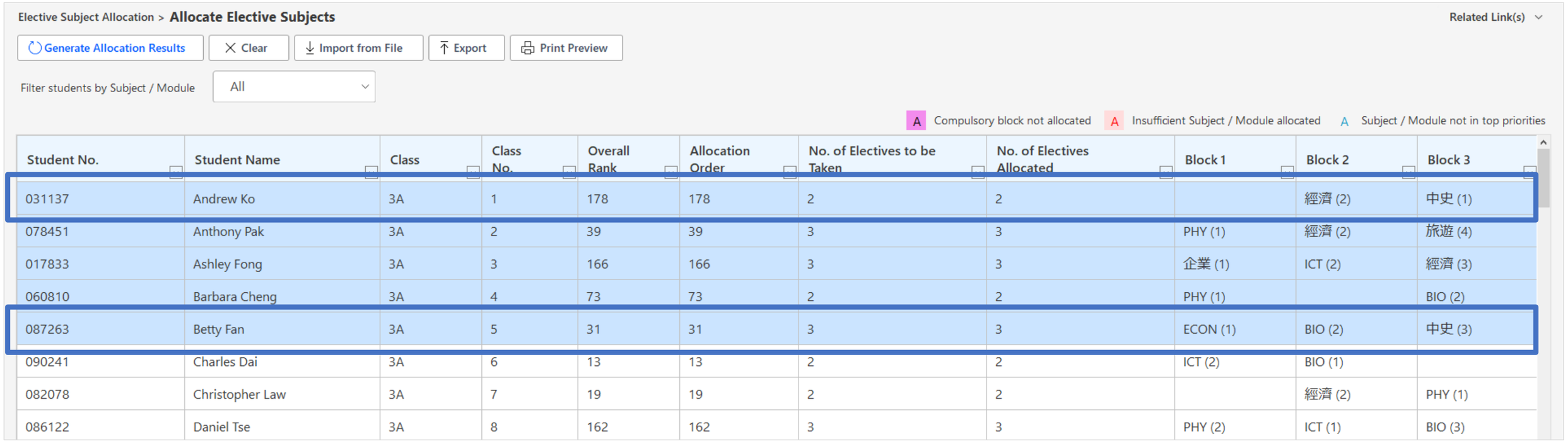
Subject / Module	Priority	Block 1	Block 2	Block 3
M1	6			
BIO	12			
CHEM	4	30/30		
PHY	5	33/35		30/30
中史	1			32/35
經濟	2		27/40	27/40
ECON	11	23/40		
地理	8		35/35	
旅遊	7			34/35
企業	9	29/30		35/35
ICT	10	35/35	27/30	
視藝	3	29/35		

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

Allocate Subject / Module | Withdraw Subject / Module | Cancel

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



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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)
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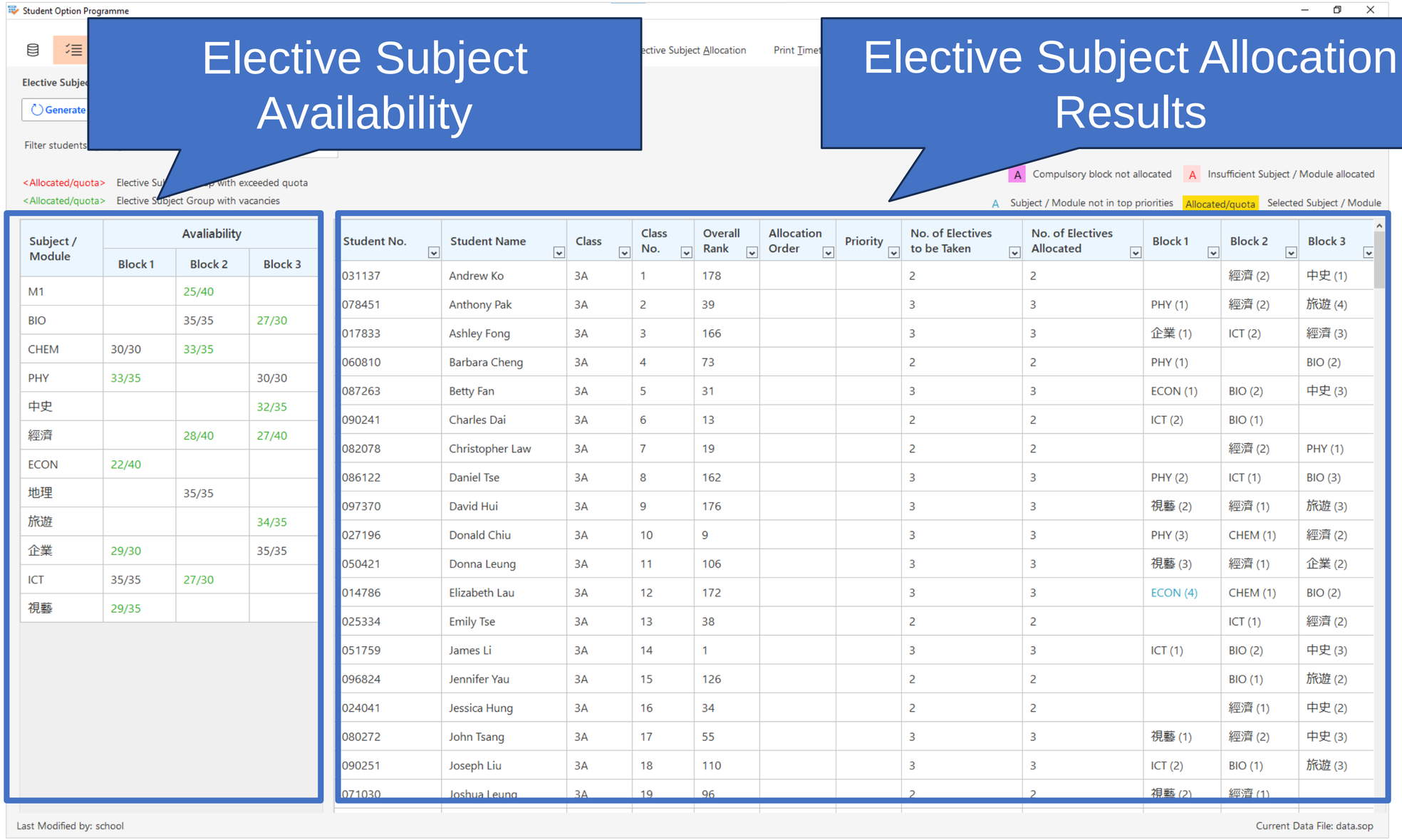
090241	Charles Dai	3A	6	13	13	2	2	ICT (2)	BIO (1)	
082078	Christopher Law	3A	7	19	19	2	2		經濟 (2)	PHY (1)
086122	Daniel Tse	3A	8	162	162	3	3	PHY (2)	ICT (1)	BIO (3)

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

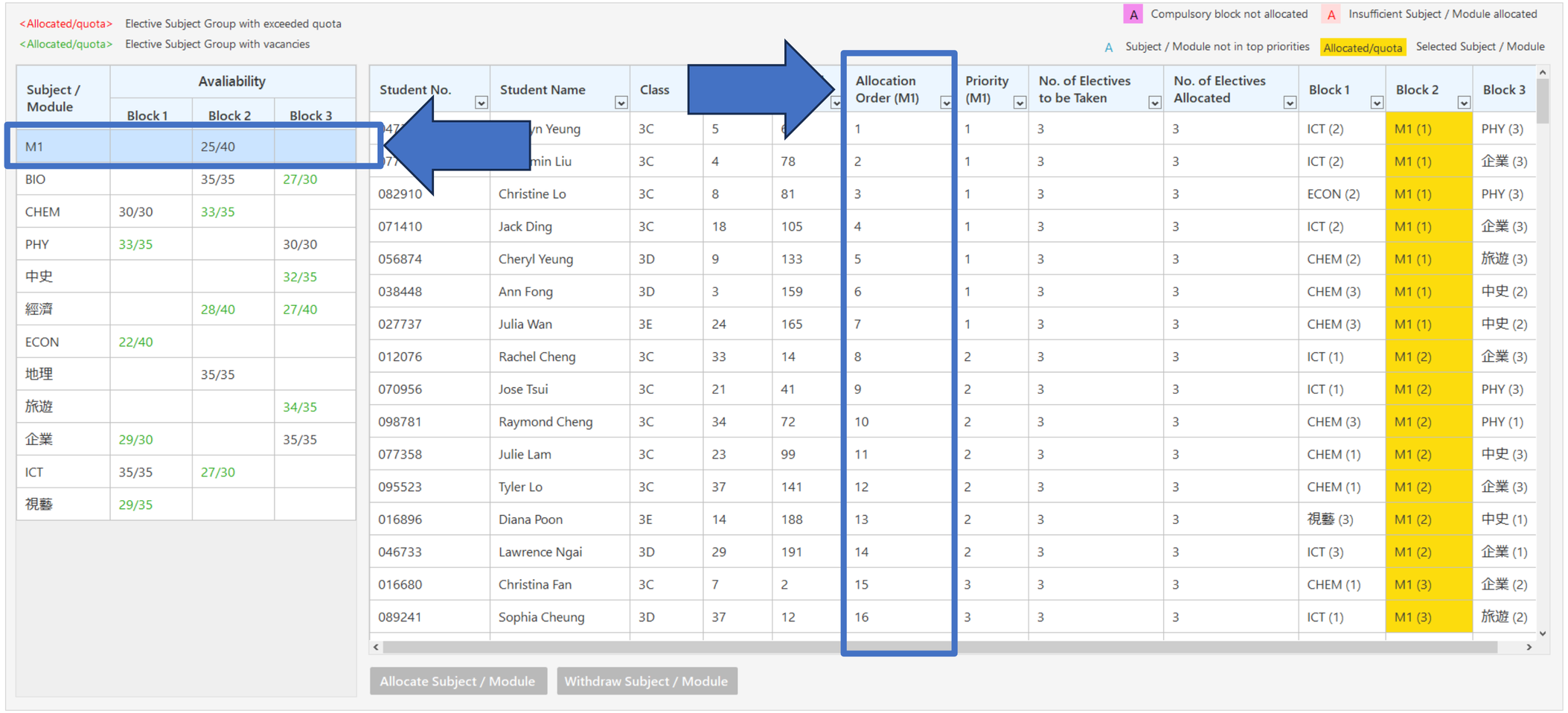


Subject / Module	Avaliability		
	Block 1	Block 2	Block 3
M1		25/40	
BIO		35/35	27/30
CHEM	30/30	33/35	
PHY	33/35		30/30
中史			32/35
經濟		28/40	27/40
ECON	22/40		
地理		35/35	
旅遊			34/35
企業	29/30		35/35
ICT	35/35	27/30	
視藝	29/35		

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)	

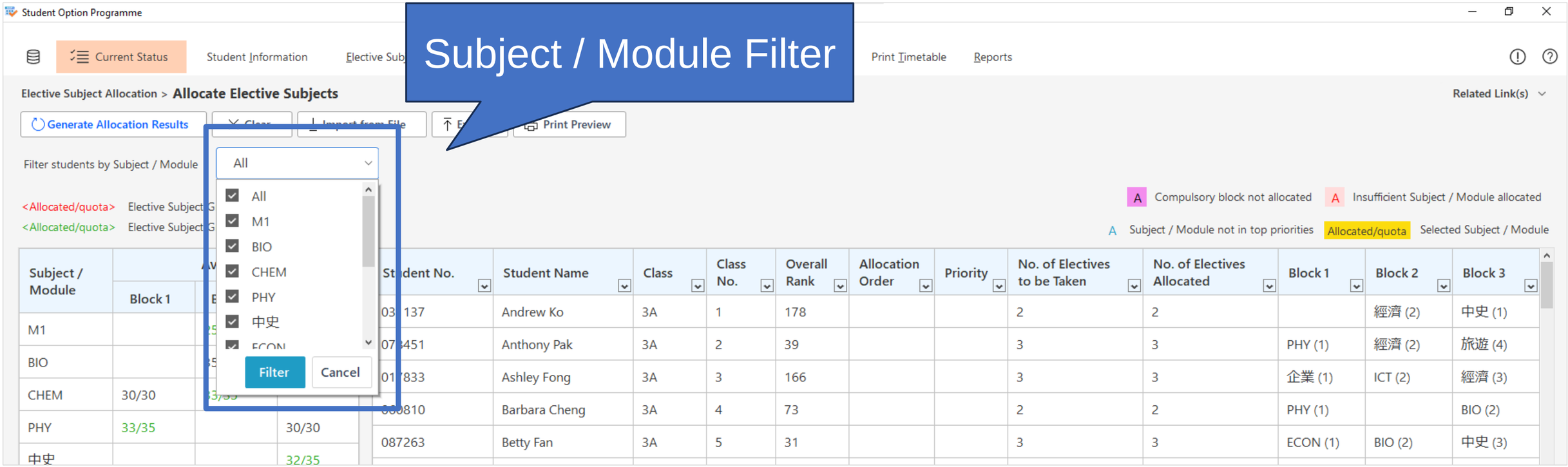
3. Elective Subject Allocation - New allocation method (elective subject queue)

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



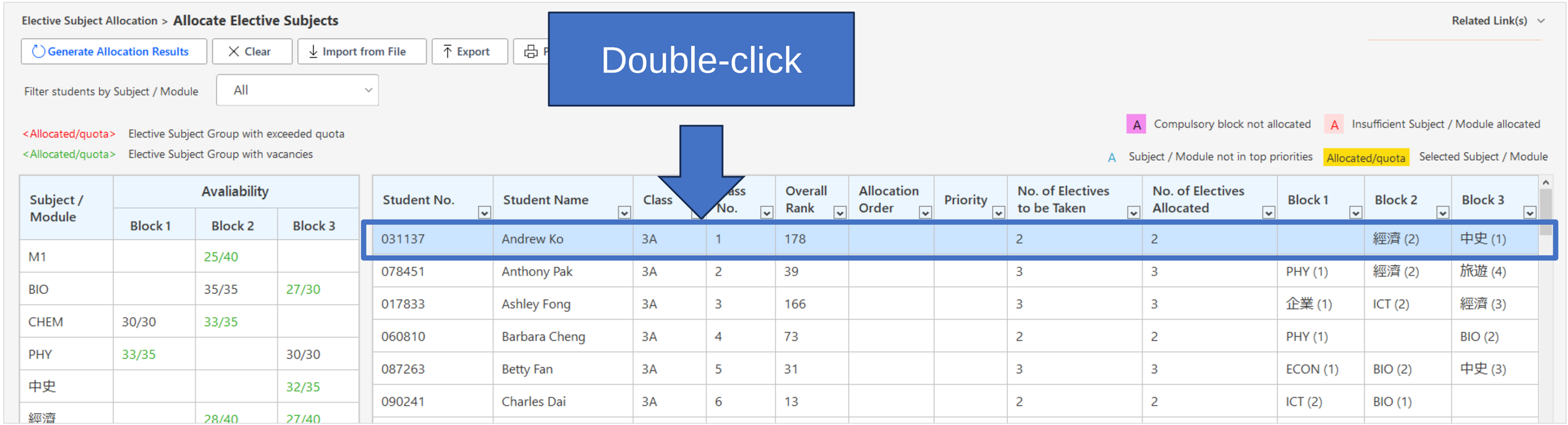
3. Elective Subject Allocation - New allocation method (elective subject queue)

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



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

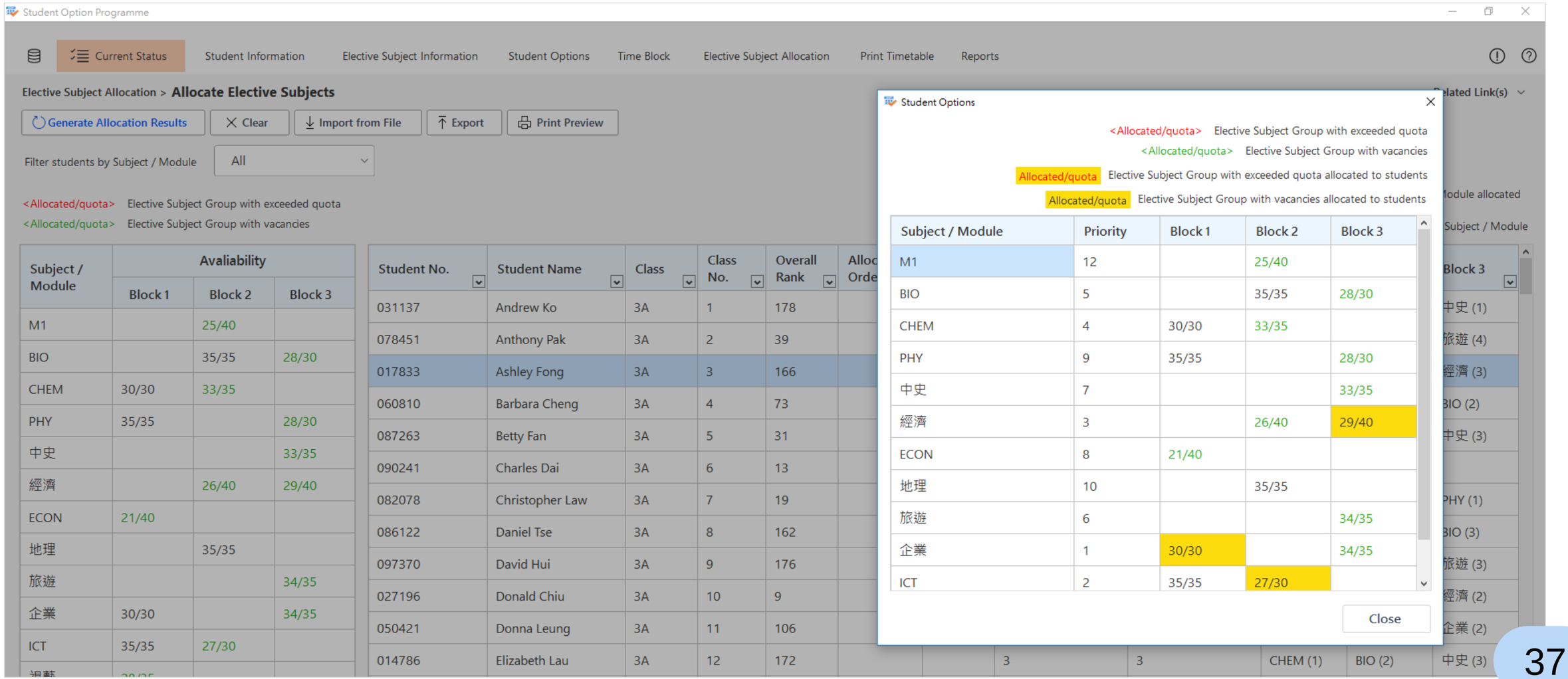


Subject / Module	Avaliability		
	Block 1	Block 2	Block 3
M1		25/40	
BIO		35/35	27/30
CHEM	30/30	33/35	
PHY	33/35		30/30
中史			32/35
經濟		28/40	27/40

Student No.	Student Name	Class	ass 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)	

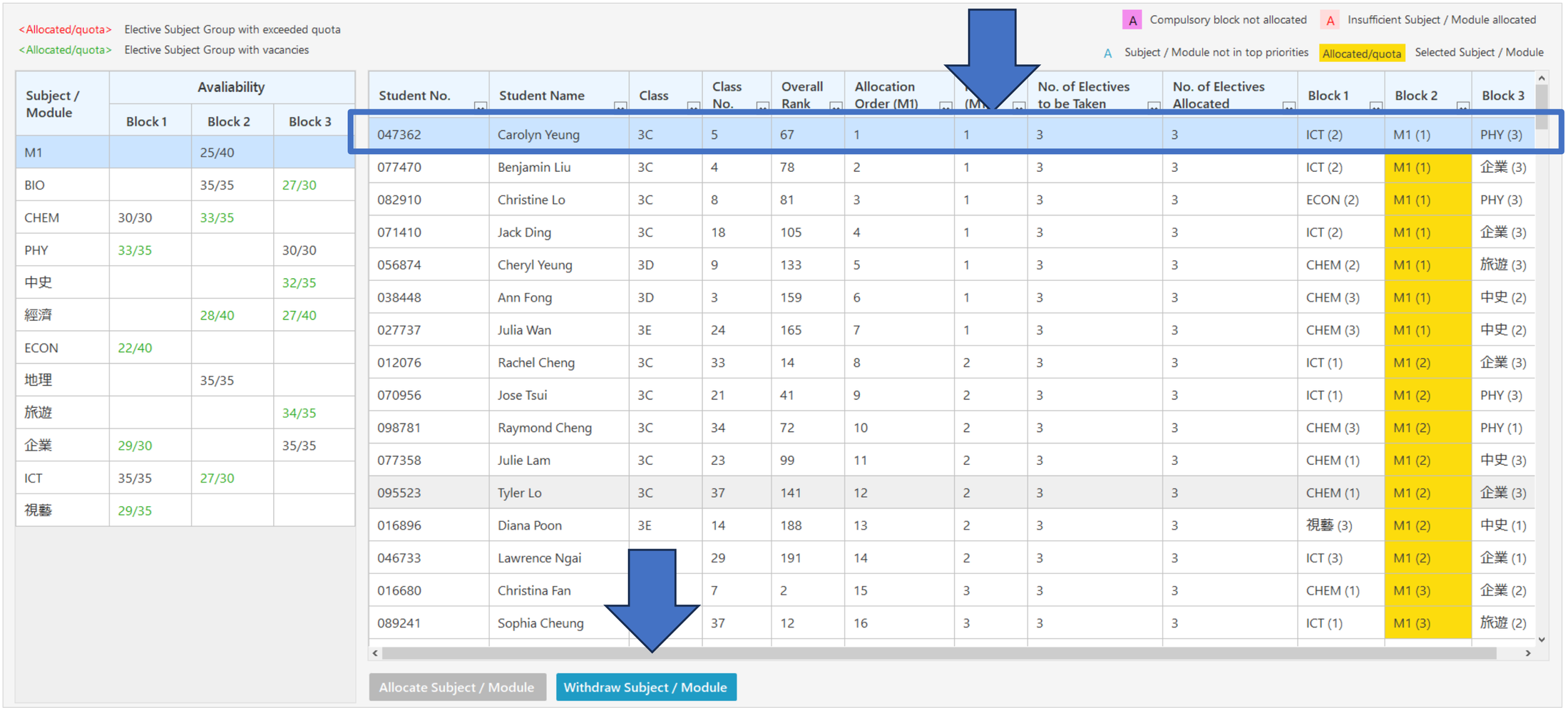
3. Elective Subject Allocation - New allocation method (elective subject queue)

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



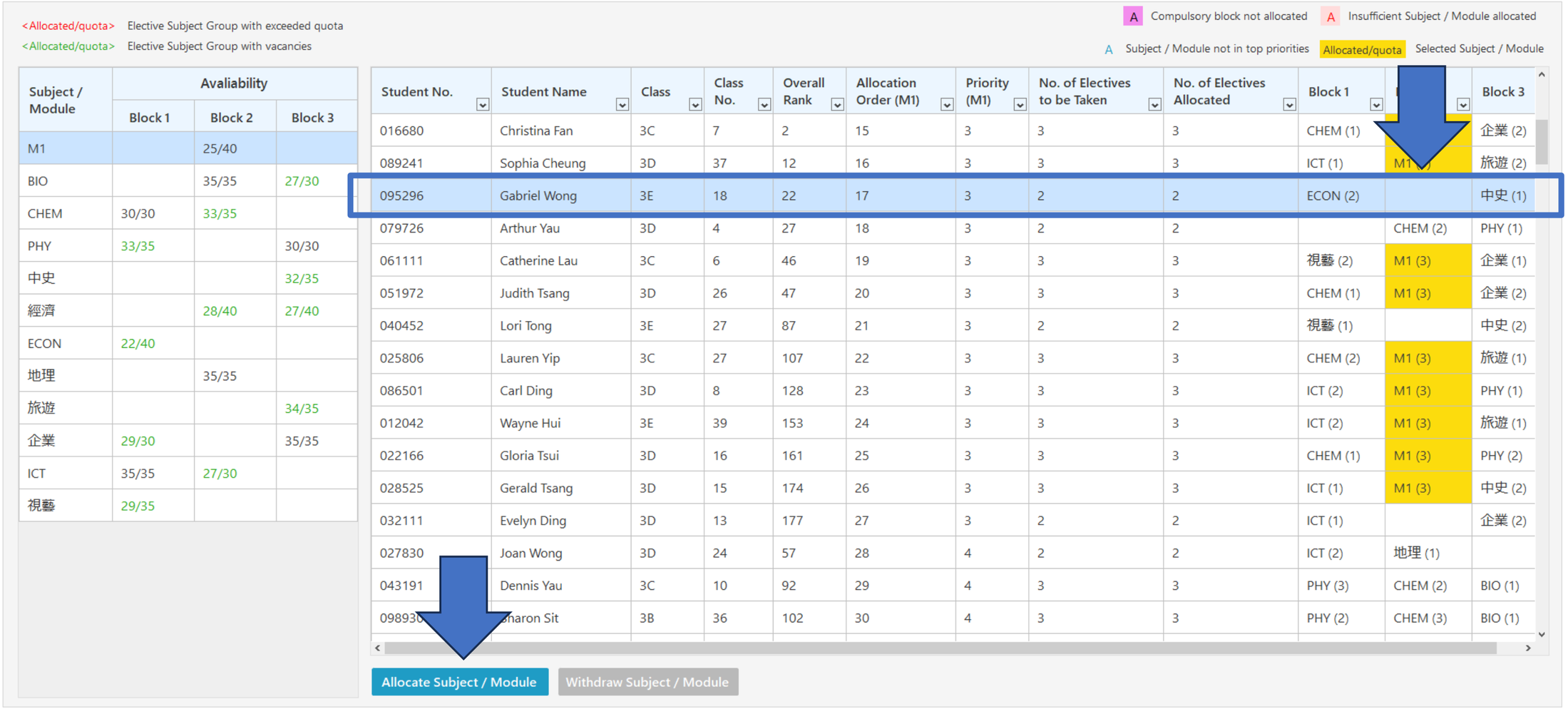
3. Elective Subject Allocation - New allocation method (elective subject queue)

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



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

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

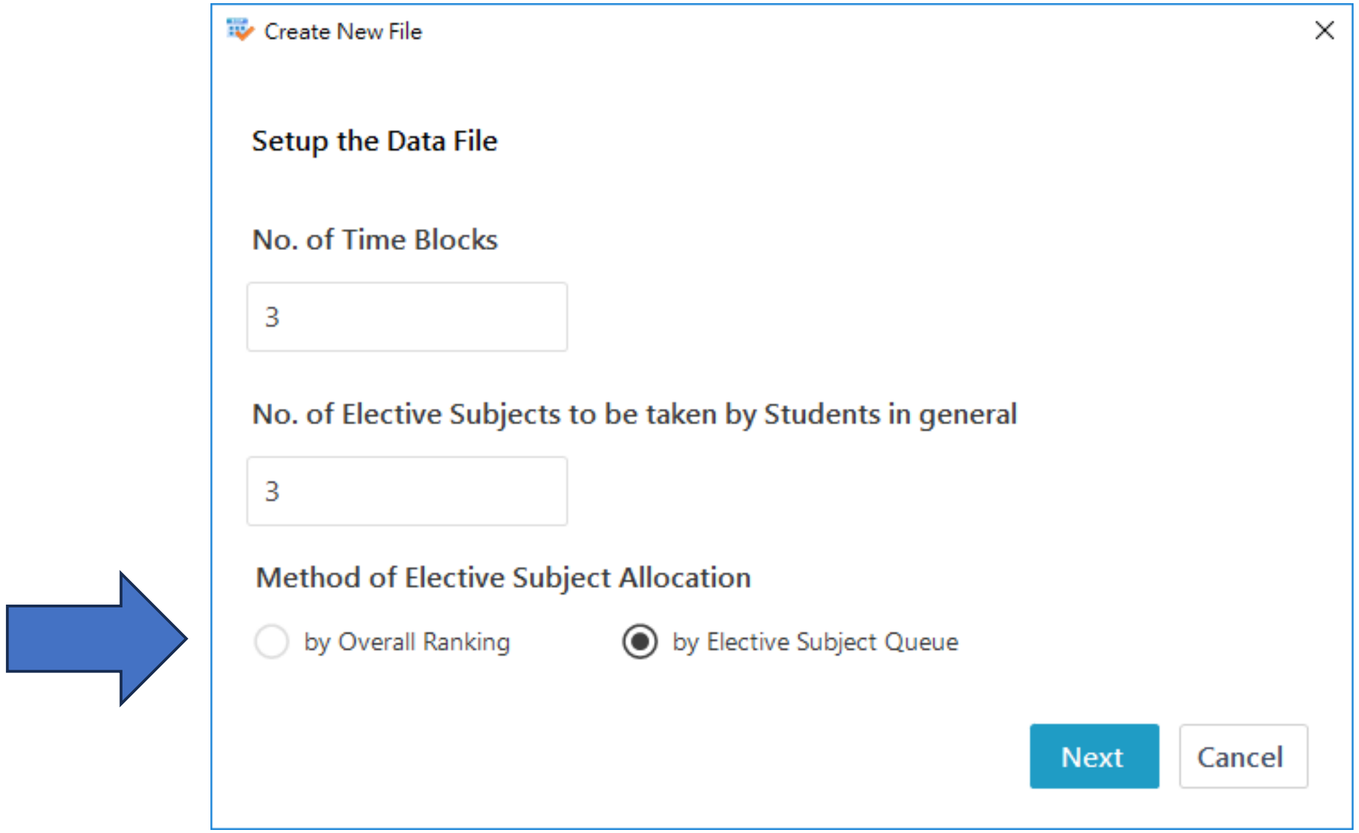


Subject / Module	Avaliability		
	Block 1	Block 2	Block 3
M1		25/40	
BIO		35/35	27/30
CHEM	30/30	33/35	
PHY	33/35		30/30
中史			32/35
經濟		28/40	27/40
ECON	22/40		
地理		35/35	
旅遊			34/35
企業	29/30		35/35
ICT	35/35	27/30	
視藝	29/35		

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	[illegible]	Block 3
016680	Christina Fan	3C	7	2	15	3	3	3	CHEM (1)		企業 (2)
089241	Sophia Cheung	3D	37	12	16	3	3	3	ICT (1)	M1 (3)	旅遊 (2)
095296	Gabriel Wong	3E	18	22	17	3	2	2	ECON (2)		中史 (1)
079726	Arthur Yau	3D	4	27	18	3	2	2		CHEM (2)	PHY (1)
061111	Catherine Lau	3C	6	46	19	3	3	3	視藝 (2)	M1 (3)	企業 (1)
051972	Judith Tsang	3D	26	47	20	3	3	3	CHEM (1)	M1 (3)	企業 (2)
040452	Lori Tong	3E	27	87	21	3	2	2	視藝 (1)		中史 (2)
025806	Lauren Yip	3C	27	107	22	3	3	3	CHEM (2)	M1 (3)	旅遊 (1)
086501	Carl Ding	3D	8	128	23	3	3	3	ICT (2)	M1 (3)	PHY (1)
012042	Wayne Hui	3E	39	153	24	3	3	3	ICT (2)	M1 (3)	旅遊 (1)
022166	Gloria Tsui	3D	16	161	25	3	3	3	CHEM (1)	M1 (3)	PHY (2)
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)
09893[illegible]	[illegible]haron Sit	3B	36	102	30	4	3	3	PHY (2)	CHEM (3)	BIO (1)

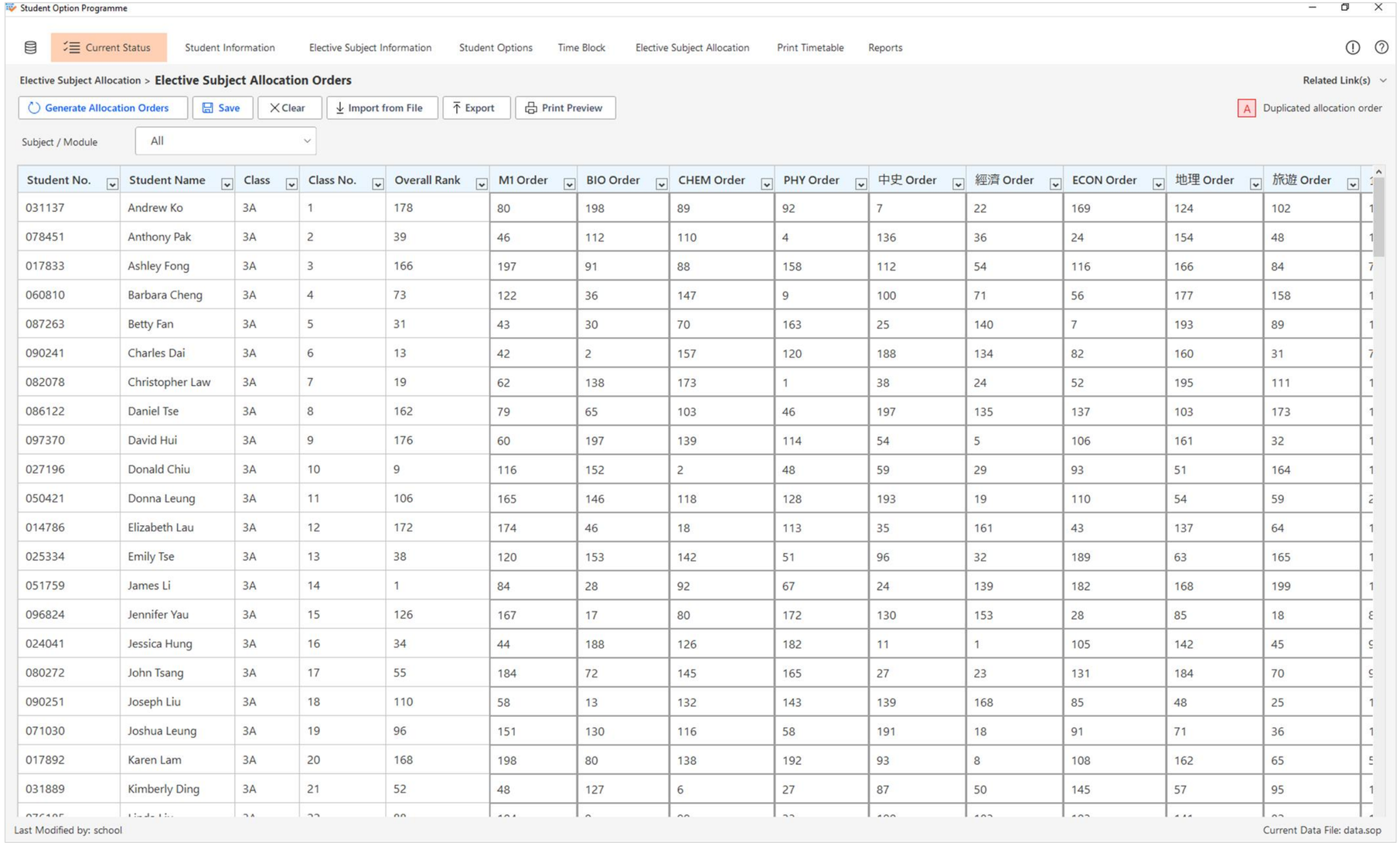
3. Elective Subject Allocation - New allocation method (elective subject queue)

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



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

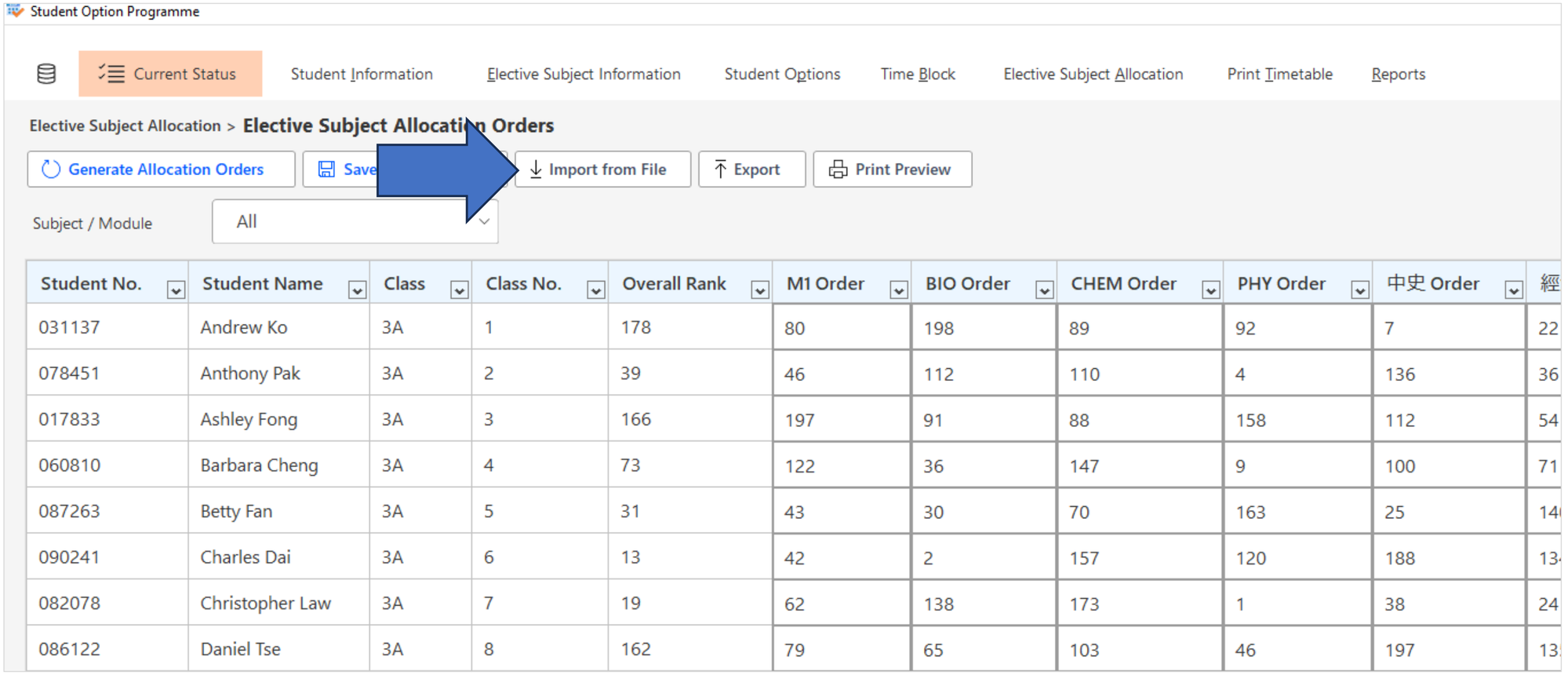
- Define students' subject allocation orders of all elective subjects offered



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)

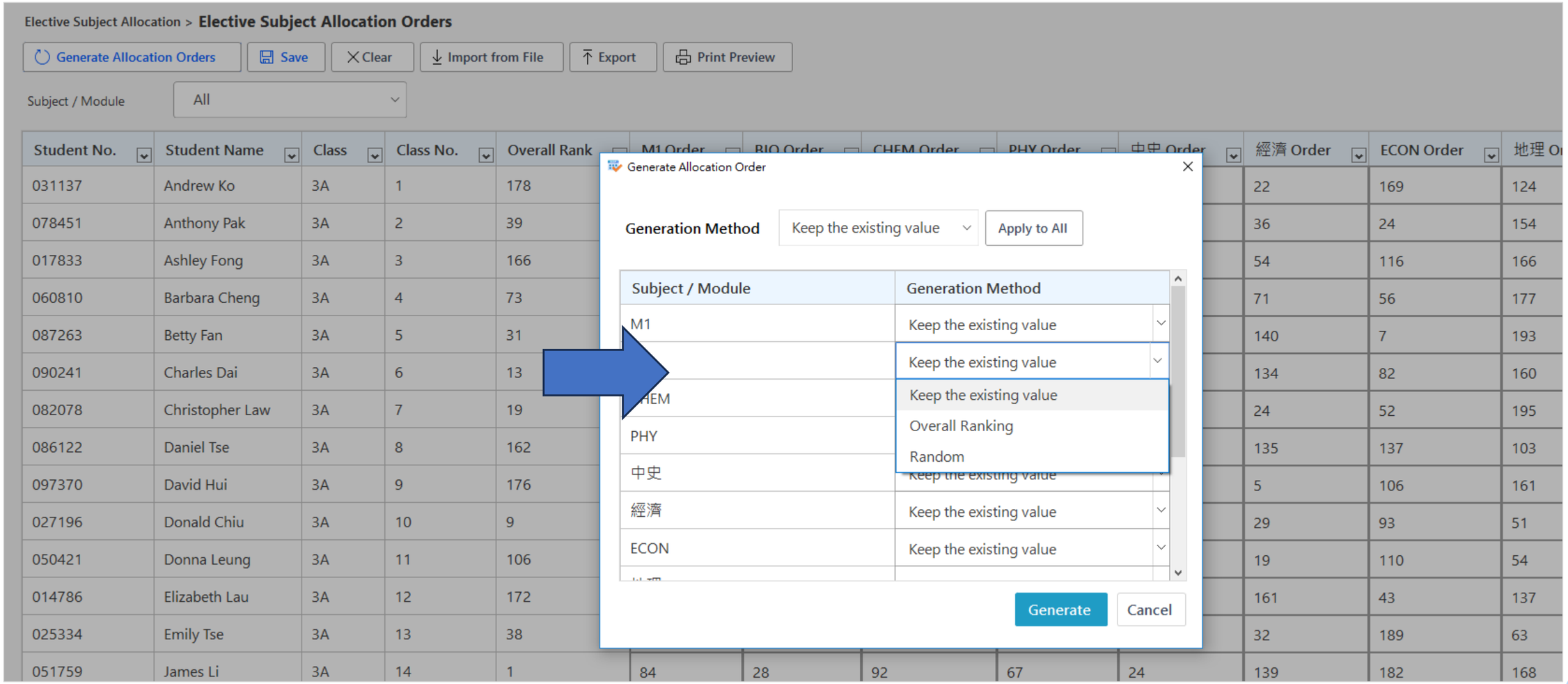
- Import students' subject allocation orders



Student 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



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

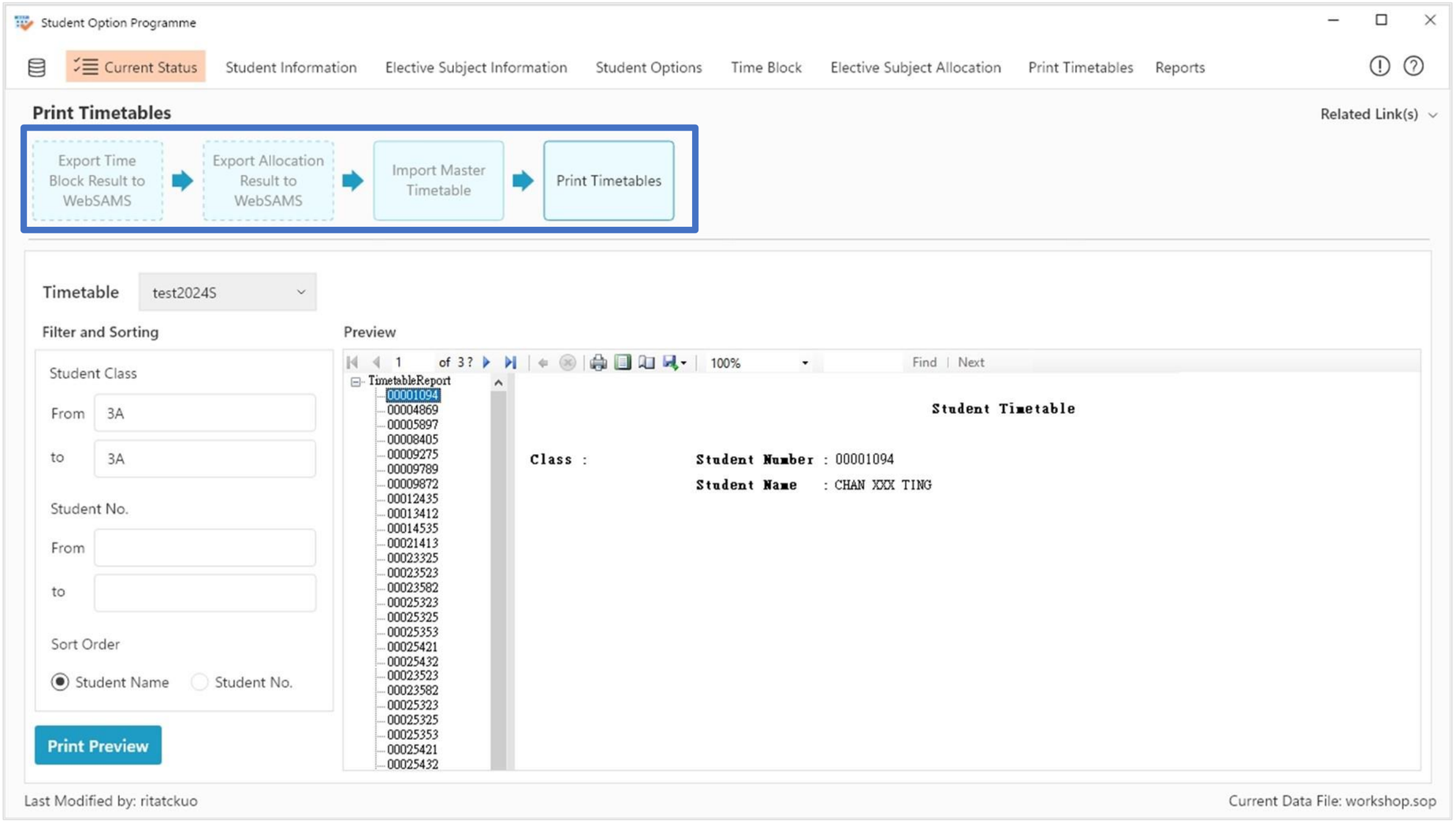
Allocation result of student B

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

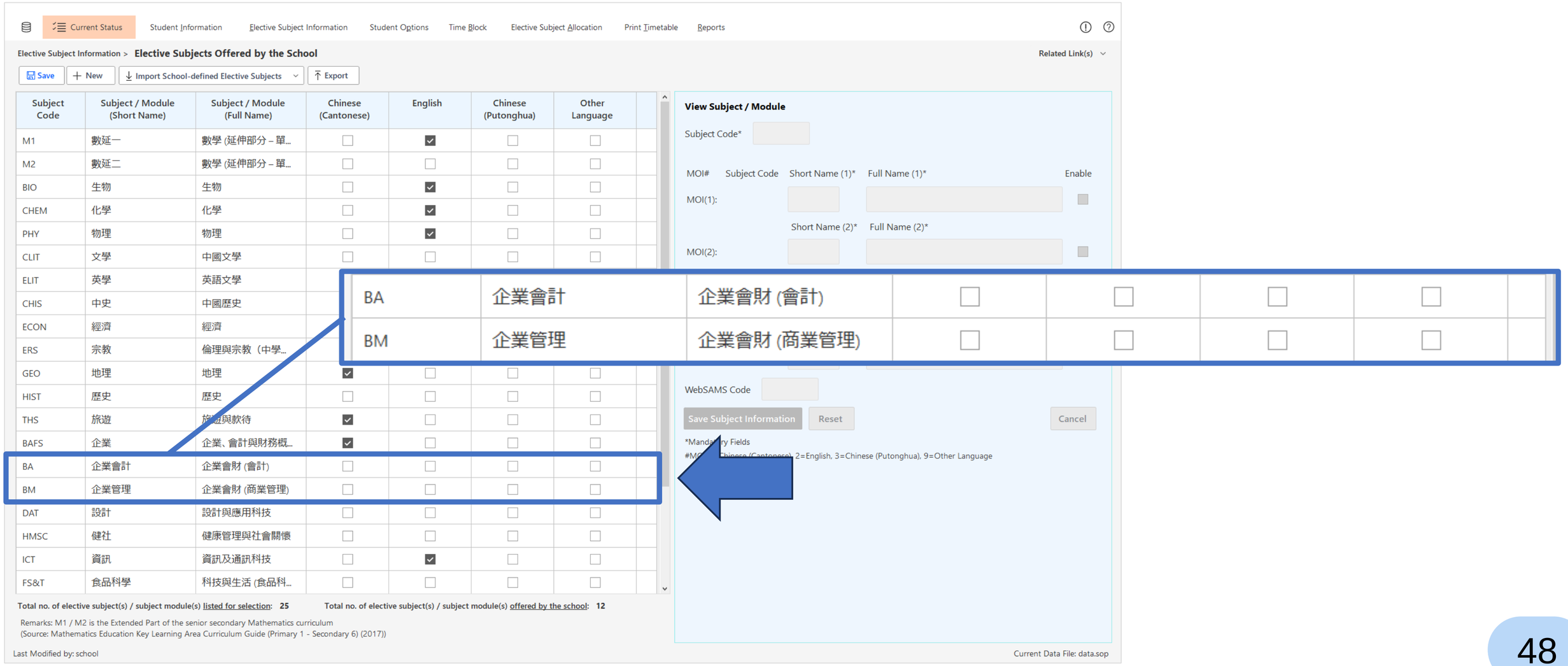
1. New UI of printing timetables

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



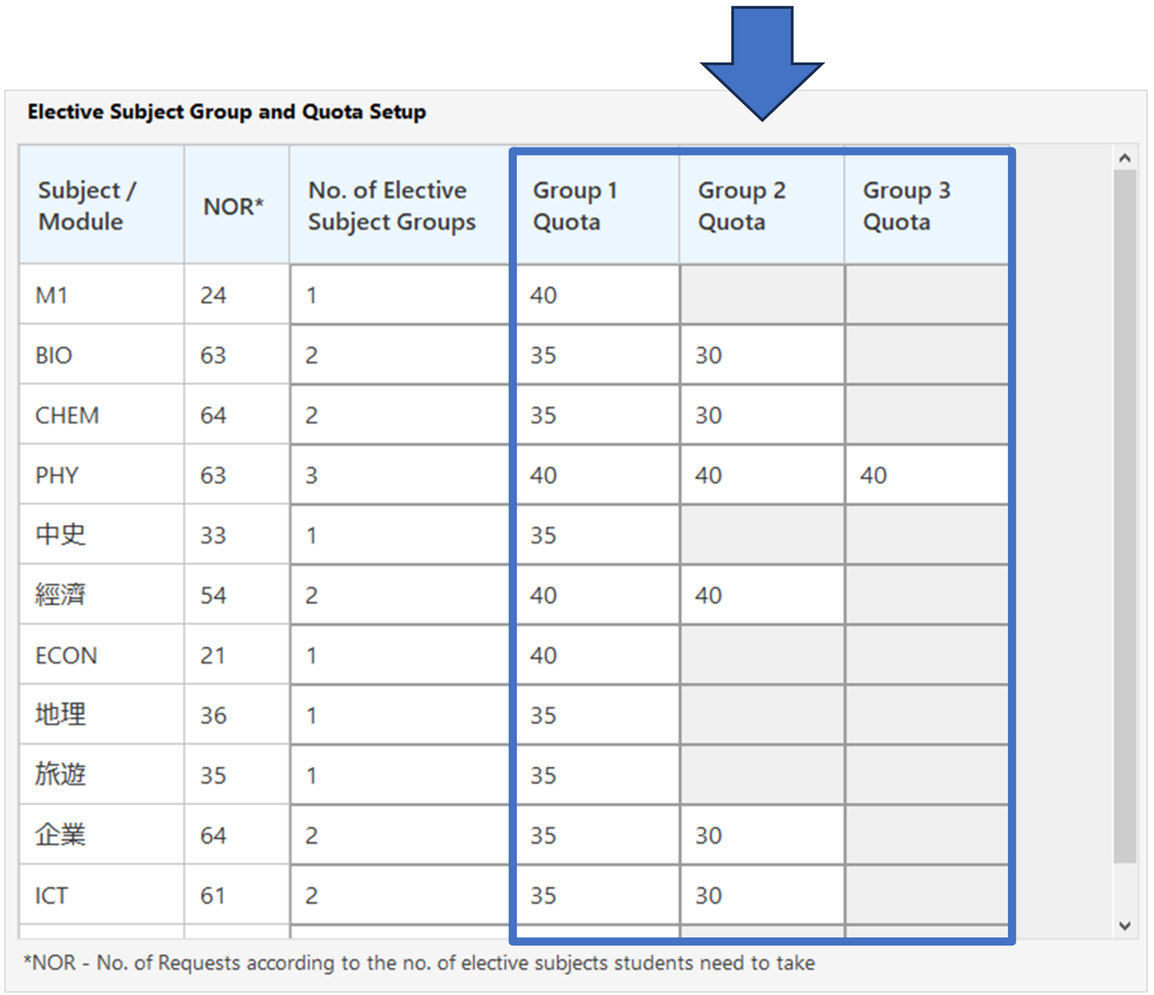
2. Allocation of subjects / modules without duplication

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



3. Setup elective subject groups with different quotas

- No longer need to use dummy students



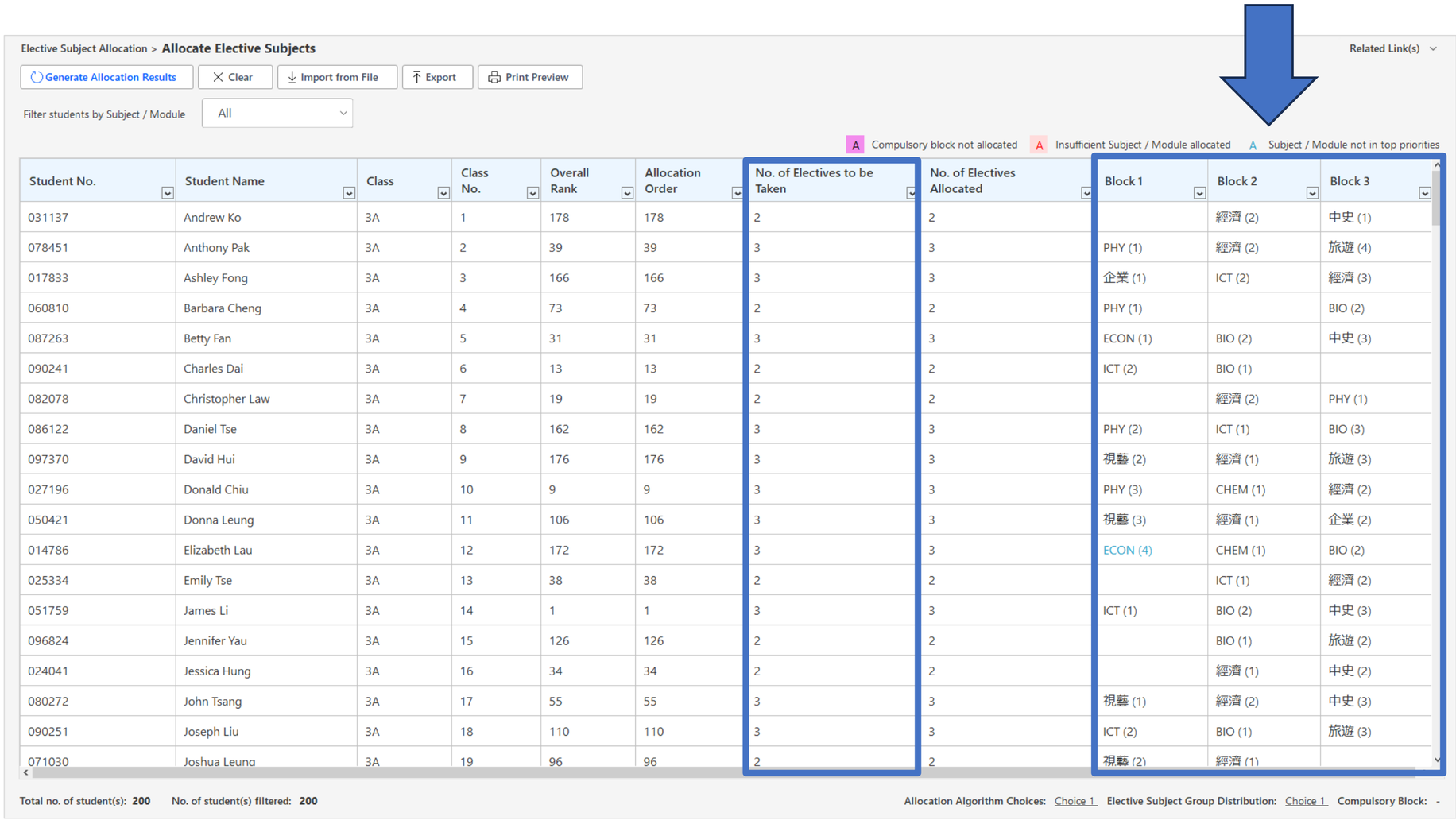
Elective Subject Group and Quota Setup

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**

Related Link(s)

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)	

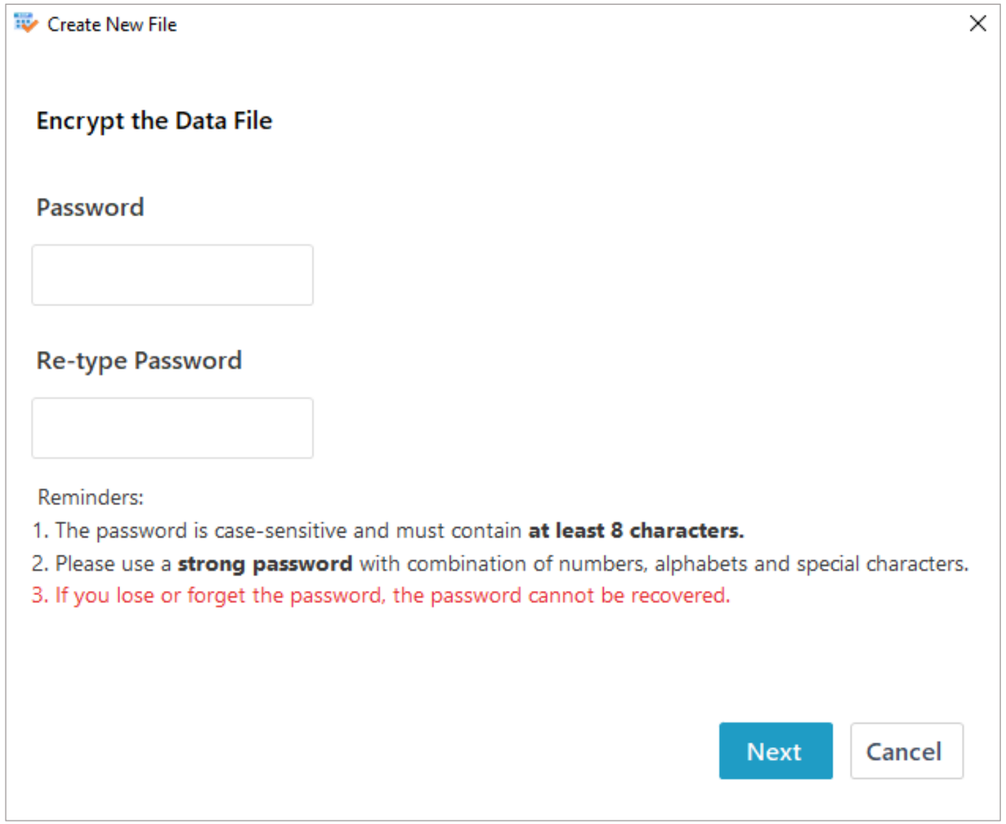
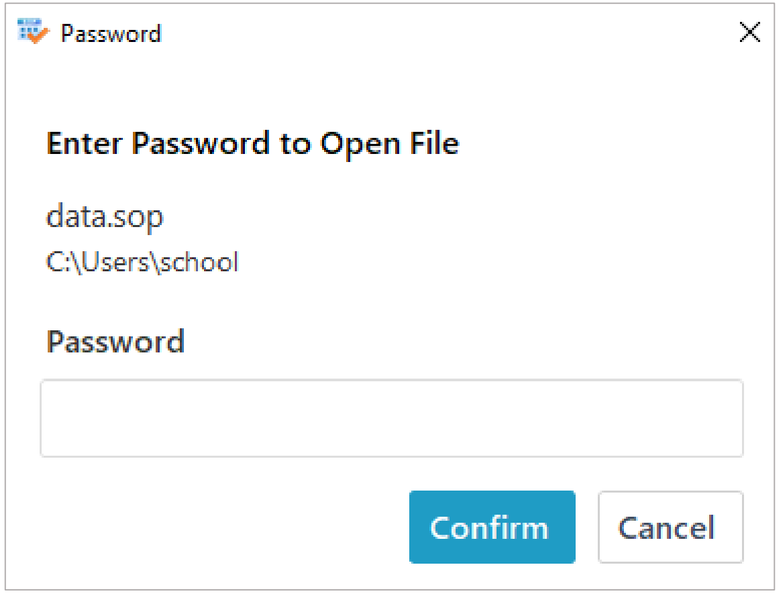
Total no. of student(s): **200** No. of student(s) filtered: **200**

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

	A	B	C	D	E	F	G	H	I	J	K
1	Report ID: RPT004			Student Option Programme						Date:04/03/2024	
3				List of Student Options in Priority Order & Elective Subject Allocation						Page:1/1	
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