

Pupil Academic Monitoring System 2021 (PAMS-21)

PAMS has been around for more than 23 years. "Older" than School Cockpit System (School Cockpit System was launched in Year 2000).

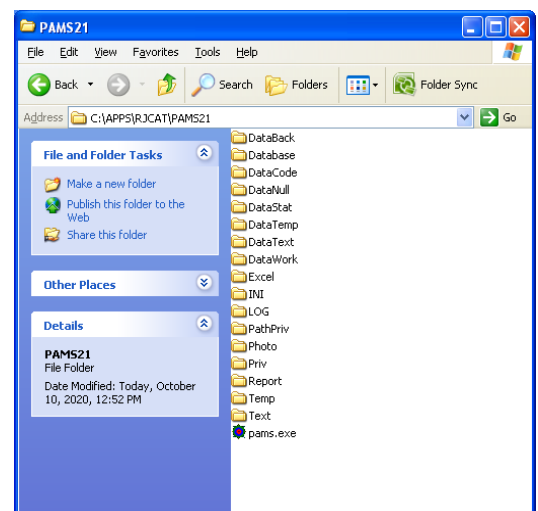
We have decided to rewrite PAMS from scratch using the latest programming logic and techniques (Already started 2 years ago). It will be fully object-oriented and with a new interface and more organized Menu Navigation System (No need to go too deep into Menu System).

PAMS-21 is an offline Windows Application developed using Borland Delphi Pascal and Third-Party Components. It will be installed into C:\APPS\RJCAT\PAMS21 (Local PC) and has its own set of database with additional new fields. It is SSOE2 compliance running on Windows Platform supporting up to 64-bit (Windows 10).

The new PAMS will be known as **PAMS-21**. It will be available from 14 Feb 2021. All schools will be able to download the New PAMS-21 Installer from our website <https://www.rjcat.com> (To be announced at a later date).

There will be a Data Migration Utility which will convert all the existing data from PAMS2000 seamlessly into PAMS-21.

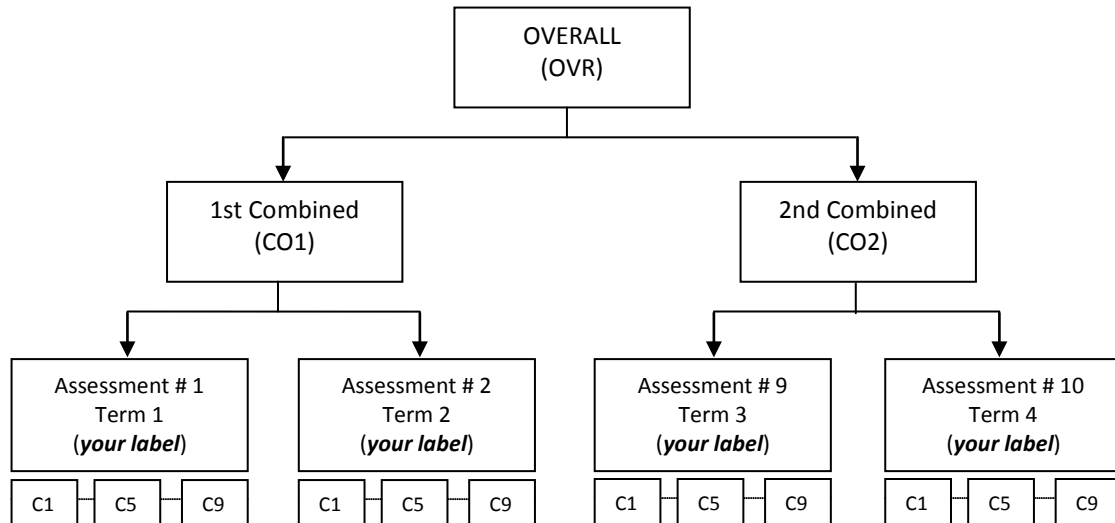
PAMS2000 will still continue to function while you test and work on PAMS21. Once you are comfortable with PAMS-21, you may focus on PAMS-21.



WHAT'S NEW IN PAMS-21

Cockpit Framework

As there are changes to School Cockpit System, PAMS-21 will manage these changes. Only 4-Tier Framework will be available:



PAMS-21 will allow you to define your own label. For example: WA1, WA2, WA3 and SA

Pupil Academic Profiling System Version 7.00 Dated : 22 JUL 2020

Greendale Secondary School
51 Edgedale Plains
Singapore 828866

User ID: JON
Group: MASTER

Print

Testing

Stage 1A (Annual Setup)

- Update Parameters
- Convert Cockpit Data
- Update Frame Work
- Convert SBB/TGroup
- Manage SBB/TGroup
- Manage Pupil SBB
- Check Grading Scheme
- dxNav01_H

Stage 1B (Target Setting)

Stage 2 (Exam Results)

Stage 3 (GCE Results)

Master Table

Utilities

Update Frame Work

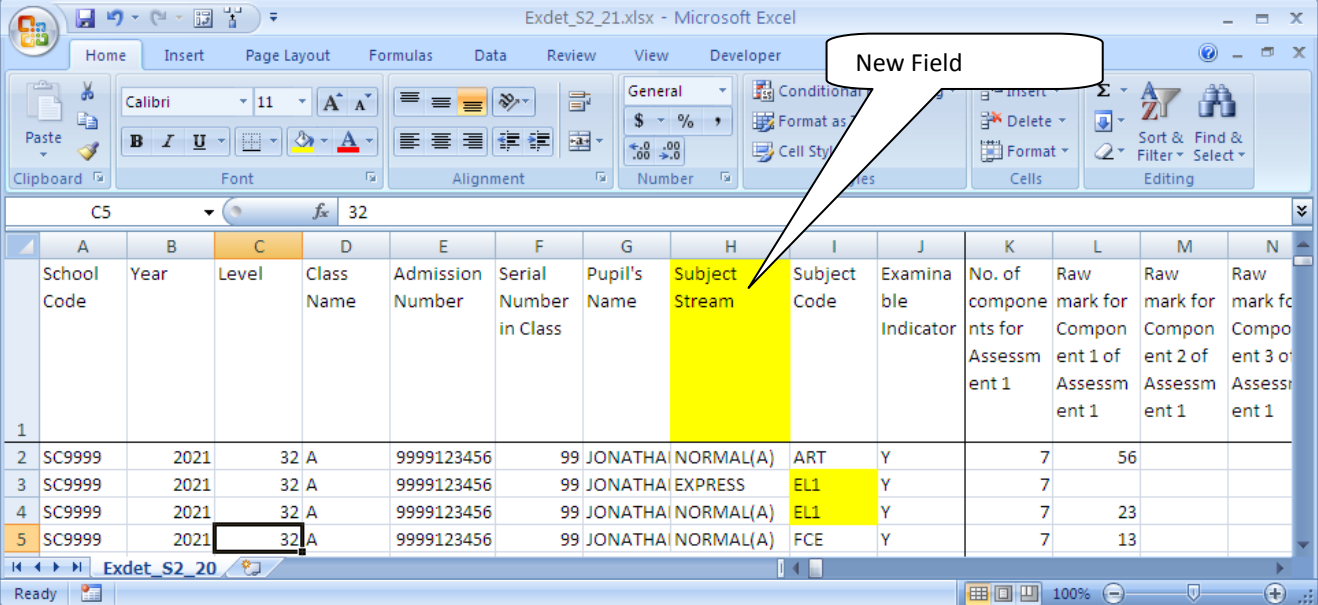
Year: 2020 Level: 4

ID	Term	Desc	FW#	A#	Col#	T/Comp	Label
+ Year: 2014 (Total: 40)							
+ Year: 2015 (Total: 40)							
+ Year: 2016 (Total: 40)							
+ Year: 2017 (Total: 42)							
+ Year: 2018 (Total: 40)							
+ Year: 2019 (Total: 40)							
+ Year: 2020 (Total: 42)							
+ Level: 1 (Total: 10)							
- Level: 2 (Total: 8)							
1	1	WA1	1	1	10	7	No. Of Components For Assessment 1
2	2	WA2	2	2	20	7	No. Of Components For Assessment 2
3	3	WA3	3	9	30	7	No. Of Components For Assessment 9
4	4	SA	4	10	40	7	No. Of Components For Assessment 10
11		CO1					Semester 1 Percentage Score
12		CO2					Semester 2 Percentage Score
15		OVR					Overall Percentage Score
16		GCE					
+ Level: 3 (Total: 8)							
- Level: 4 (Total: 8)							
1		WA1	1	1	10	4	No. Of Components For Assessment 1
2		MidYear	2	2	20	4	No. Of Components For Assessment 2
3		Prelim	3	9	30	2	No. Of Components For Assessment 9
4			4				
11		CO1	5				Semester 1 Percentage Score
12		CO2	6				Semester 2 Percentage Score
15		OVR	7				Overall Percentage Score
16		GCE					
+ Level: 5 (Total: 8)							

Export File - EXDET

As MOE is moving toward FULL SBB, there will be more students offering Subjects at higher standard. Cockpit will introduce a new field in EXDET file. This is to identify the Subject Grading Scheme needed for the subject with the same Code. For example: EL1, MATHS, SCI(P,C), SS+GEOG etc.

PAMS-21 will manage these changes.



The screenshot shows an Excel spreadsheet titled 'Exdet_S2_21.xlsx'. The spreadsheet has columns A through N. Column H is highlighted in yellow and labeled 'Subject Stream' in the header row. A callout bubble points to this column with the text 'New Field'. The data rows show columns A through N with various values, including 'SC9999', '2021', '32 A', '9999123456', '99 JONATHA', 'NORMAL(A)', 'ART', 'EL1', 'Y', '7', and '13'.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	School Code	Year	Level	Class Name	Admission Number	Serial Number in Class	Pupil's Name	Subject Stream	Subject Code	Examinable Indicator	No. of components for Assessment 1	Raw mark for Component 1 of Assessment 1	Raw mark for Component 2 of Assessment 1	Raw mark for Component 3 of Assessment 1
1														
2	SC9999	2021	32 A		9999123456	99	JONATHA	NORMAL(A)	ART	Y	7	56		
3	SC9999	2021	32 A		9999123456	99	JONATHA	EXPRESS	EL1	Y	7			
4	SC9999	2021	32 A		9999123456	99	JONATHA	NORMAL(A)	EL1	Y	7	23		
5	SC9999	2021	32 A		9999123456	99	JONATHA	NORMAL(A)	FCE	Y	7	13		

PSLE Results

PAMS-21 will be ready for New PSLE Grading Scheme which you will get for Sec 1 from Year 2022. This data should be included in PUPIL text file, replacing the old PSLE Results:

Overall AL Scores : 4 to 32 (Sum of 4 Subjects)
 Standard Subject : AL-1 ... AL-8
 Foundation Subject : AL-A ... AL-C
 → AL-A = AL-6
 → AL-B = AL-7
 → AL-C = AL-8

Posting Aggregate

4 to 20 : Express
 21 to 22 : Express/ Normal (A)
 23 to 24 : Normal (A)
 25 : Normal (A)/ Normal (T)
 26 to 30 : Normal (T) (both EL1 and Maths >=AL7)

Target Setting for Sec 1 will be straight forward. You map Grade to Grade:

PSLE Grade	Exp Subject	NA Subject	NT Subject	Remark
AL-1	A1	1	A	
AL-2	A2	1	A	
AL-3	B3	1	A	
AL-4	B4	2	A	
AL-5	C5	2	A	
AL-6 / AL-A	C6	4	A	
AL-7 / AL-B	D7	5	B	AL-B is a actually a very big range
AL-8 / AL-C	D8	5	D	
Min Grade	C6	5	D	

Note: You may force a Min Grade of C6, 5 or D depend on the Subject Stream

Computation of Target (Top-Down Approach)

You set the Min MSG for each Subject and Decide on the Overall Aggregate (L1B5, L1B4, EMB5, EMB1 etc) to achieve. PAMS-21 will handle the rest to ensure that every student has target for every subject such that the average Aggregate for the cohort is close to your Aggregate Target to achieve.

Note: MSG for each subject may be lower than your Min MSG if your Overall Aggregate is low.

Computation of Target (Bottom-Up Approach)

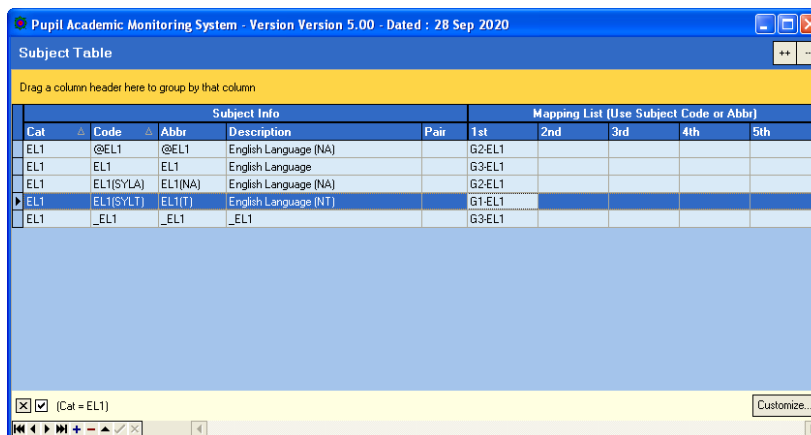
You set the Min MSG for each Subject. PAMS-21 will compute target for every students in the subject such that the MSG is at least your Min MSG. After which it will compute the Overall Aggregate (L1B5, L1B4, EMB5, EMB1 etc). For this method, you can Control the Min MSG to achieve for each subject.

FULL SBB from Year 2024

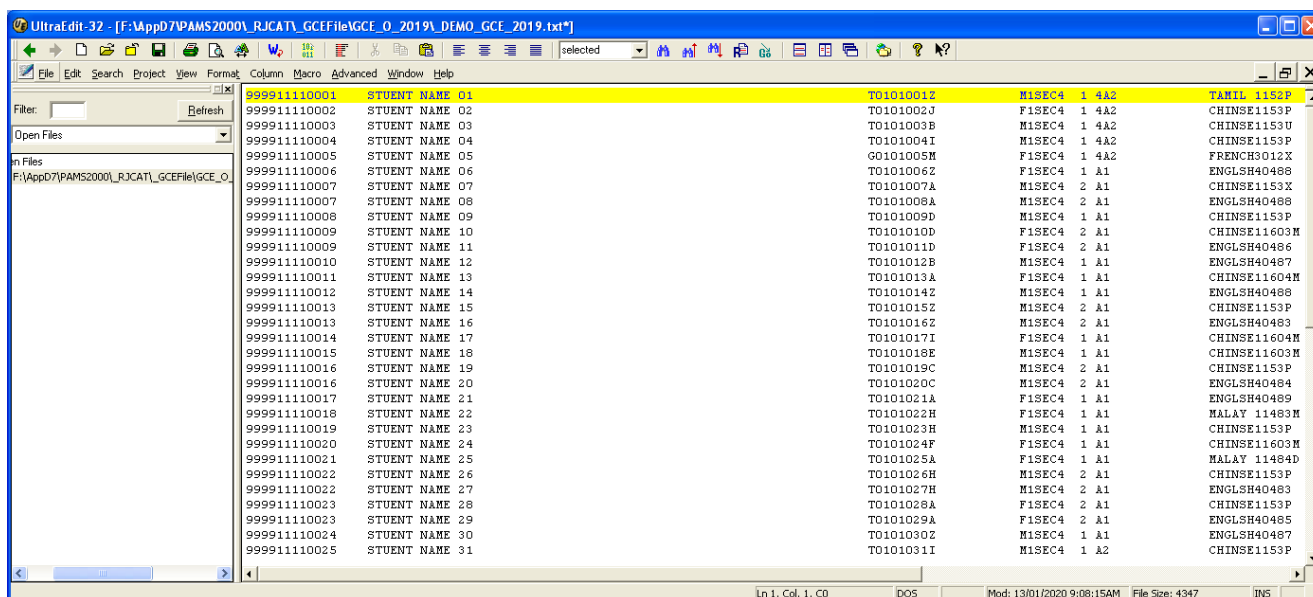
PAMS-21 is also ready for FULL SBB which will be implemented in all schools from Year 2024 onward. The Subject Coding Format will be similar to JCS'. For example

Current	Express	Normal (A)	Normal (T)
EL1	G3-EL1	G2-EL1	G1-EL1
SCI(S/E), SCI(NA), SCI(NT)	G3-SCI	G2-SCI	G1-SCI
CL, CL N(A), BCL	G3-CL	G2-CL	G1-CL

PAMS-21 already has Subject Mapping to link the corresponding subjects for the purpose of generating TREND reports and Link Subjects across different years.



Note: From Year 2027 onward, there will be only ONE common GCE Examination. The format will probably remain the same as current GCE Text File (Format B).



FULL SBB Scenario

Classes will be Stream-Less (Mixed Form Class). There won't be Express, NA or NT Classes. Students in each class will be offered Full range of Subjects (G1, G2 & G3). School will be banding each student according to their learning abilities. For example, for G3-MATHS, students will be banded into Teaching Groups: MA01, MA02 and MA03 etc. For each Teaching Group, there will be teachers assigned to them.

PAMS-21 will be able to analyze the results by SBB Subject, Teaching Groups and Teachers.

Pupil Group

In addition to Teaching Groups, PAMS-21 also allow you to TAG students to a Group (Up to 5 Groups) regardless of the subject they are offered. These Groups are user-defined. For example:

- DSA
- Scholars
- Low Income

PAMS-21 will be able to analyze the results by these Pupil Groups (Similar to Teaching Groups and Teachers).

More Reports

For PAMS-21, we will emphasis more on Reports.

There will be new reports based on New PSLE AL Grades:

- Correlation between PSLE Subject AL Grades vs Subject Grades
 - Correlation between PSLE AL Scores vs Aggregates (L1R4, L1R5, L1B4, L1B5, EMB3, EMB1 etc)
 - List of Pupils performed below Expected Grade based on PSLE Subject AL Grade
 - List of Pupils performed below Expected Aggregate based on PSLE AL Scores
- and more...