SAMS

Subject Allocation Management System Write-up

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Overview

Subject Combination Management System (SAMS) is a windows application developed to help schools to manage and streamline their secondary 2 Subject Combination processes. The database resides in local PC and is not connected to Internet.

SAMS is very organized. It is more than collecting students' choices and collating them into an excel file. It actually does the allocation (less than 30 seconds per cohort)!

SAMS optimizes the process of Allocation based on parameters setting and constraints defined. It is simple to use and can save tremendous amount of time.

Option

- Setup all the different Subject Combinations (Option). For each Option, define the minimum criteria required.

Options are categorized into Groups (See next Page for illustration)

Criteria

Overall Criteria (Overall Min Marks, Overall Pass etc)

Subject Criteria – AND criteria (Min Mark for Specific Subjects)

Maths >= 75Science >=60

Subject Criteria – OR Criteria (Min Mark for one of the subjects)

GEOG >= 75 or HIST >=60

Max Size

- There are 3 areas you can define the Max Size:

Group Max Size Option Max Size Subject Max Size

Option Qualified

 Limit Option to students (Can select from List of Option qualified) or allow all Options.
 Or you may manually fixed Option Qualified to certain groups of students especially the Lateral Transferred or Retained students.

OOS Offer

Define Out-Of-Stream (OOS) Subjects offered and Set Criteria.
 For example: To offer MATHS (Express), NA student must maintain current SSB Maths at 50 or Maths(NA)>=70 or Maths(NT)>=96.

For example: To offer MT (Express), NA student must maintain current SSB Maths at 50 or MT(NA)>=70 or MT(NT)>=80.

- Students who are offered OOS Subject will need to indicate if they wish to accept. For Express or IP students, you may offer them Subjects outside their curriculum.
- SAMS will auto upgrade Subject to OOS for students if they accept.

Student Choices

This is an independent module (online). Student log in to a portal to register their choices. No confidential data will be uploaded. Alternatively, you may also use SG Form to register students' choice. SAMS will work with your SG Form Excel file.

Allocate Option

Allocation is based on merit and availability. It also considers students' preferences. .

Generate Reports

Class List with their Choices and Allocated Option
 Option List with the student allocated

Allocation Statistics

Work Flow

The following is the recommended work flow for the SAMS Exercise.

2 rounds (Mock and End of Year)

<u>Order</u>	<u>Description</u>	Action By
1	Convert Cockpit Data - Pupil and ExDet (Results)	SAMS Administrator
2	Update all the Options and Set Parameters	
	Pre-Process the Weighted Marks (if any) and the Average Marks	
3	Check Option Qualified for each students	
4	Upload Database to Portal	RJCAT
5	Student makes their Choices (Option and OOS Offered)	Student
6	Download Database from SAMS Portal	RJCAT
7	Allocate Option to Students	SAMS Administrator
		RJCAT will help to do the initial
		allocation based on your
		requirement.
8	Upload Allocation to Portal for student to check	RJCAT
9	Students to Appeal if needed	Student
10	Manage Appeal and inform students	SAMS Administrator

Basic Information Needed

Since we are not using any confidential data, only the following info will be required:

Stream - Express
 Class - 2RE
 RegNo - 1
 Sex - M

Name - Jonathan Yeo

Cockpit EXDET File (Results). Results will not be uploaded to portal.

Student Login

URL: https://schoolname.schoolhub.sg

Example of Username and Password for Students to log in to Portal

Username: 2E1_01_21 (Class_RegNo_YY)

Password: 123456K8 (Randomly generated with 1 alphabet)

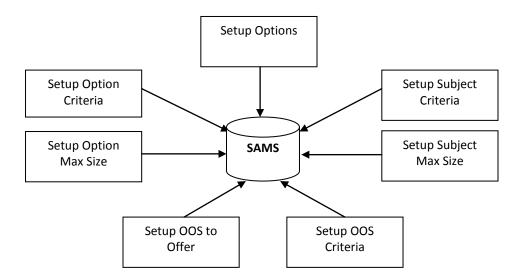
Allocation

If you provide us with all the criteria and constraints (an excel template will be provided for you to fill up), we will help you do the initial allocation. In another word, upon closing date of registration, you will get the allocation within 24 hours.

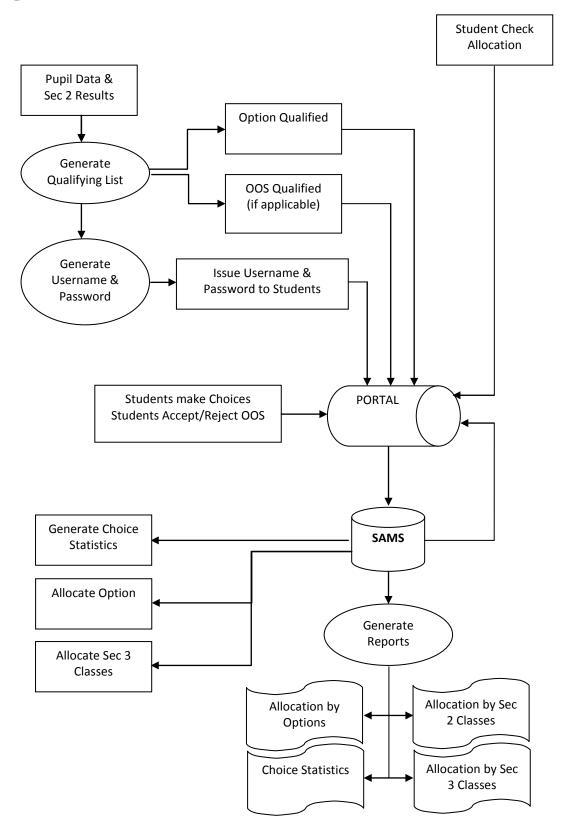
Criteria and Constraints

- Max Size and Criteria for each Option
- Max Size and Criteria for each Subject
- Max Size for each Sec 3 Class
- OOS Criteria

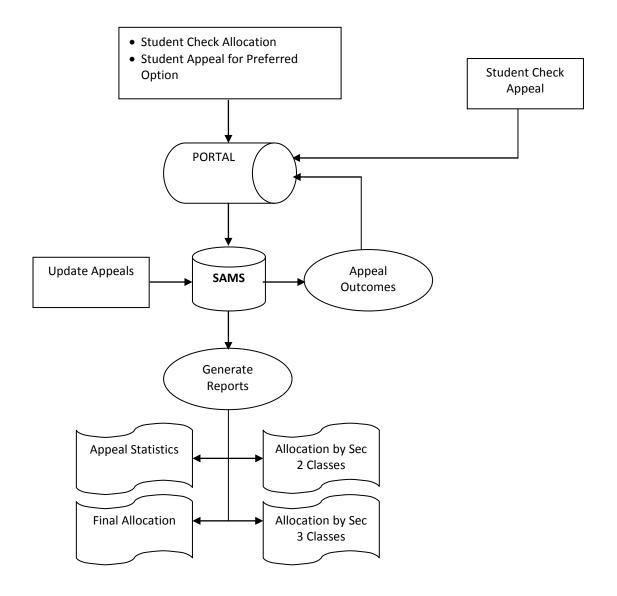
Data Flow - Update Option and Criteria Parameters



Data Flow - Making Choices and Allocation



Data Flow - Appeals



Options - Subjects Combination and Max Sizes (Sample)

		Group A MAX=80		Group B MAX=120			Group C MAX=80	
	Subj	E11	E12	E21	E22	E23	E32	E32
	Max	Max=35	Max=50	Max=30	Max=40	Max=80	Max=40	Max=0
Main Subjects	0	EL1	EL1	EL1	EL1	EL1	EL1	EL1
	0	MT/HMT	MT/HMT	MT/HMT	MT/HMT	MT/HMT	MT/HMT	MT/HMT
	0	MATHS	MATHS	MATHS	MATHS	MATHS	MATHS	MATHS
	0	A MATHS	A MATHS					
	120	PHY	PHY					
	80	CHEM						
	0	BIO						
	0			SCI(PC)	SCI(PC)	SCI(PC)		
	0		SCI(CB)					
	100	ELIT		GEOG			ELIT	ELIT
	0				HIST			
	0					POA		
Select One	80	SS+GEOG	SS+GEOG		SS+GEOG	SS+GEOG	SS+GEOG	SS+GEOG
	60	SS+HIST	SS+HIST	SS+HIST		SS+HIST	SS+HIST	SS+HIST
	0		SS+ELit	SS+ELit	SS+ELit	SS+ELit		
Select One	0			ART	ART	ART	ART	ART
	0			D&T	D&T	D&T	D&T	D&T
	0			F&N	F&N	F&N	F&N	F&N

Group A - Max Size

Consist of E11 & E12 Group Size <=80 E11 + E12 <=80 E11 Size <= 35 E12 Size <= 50

Subject - Max Size

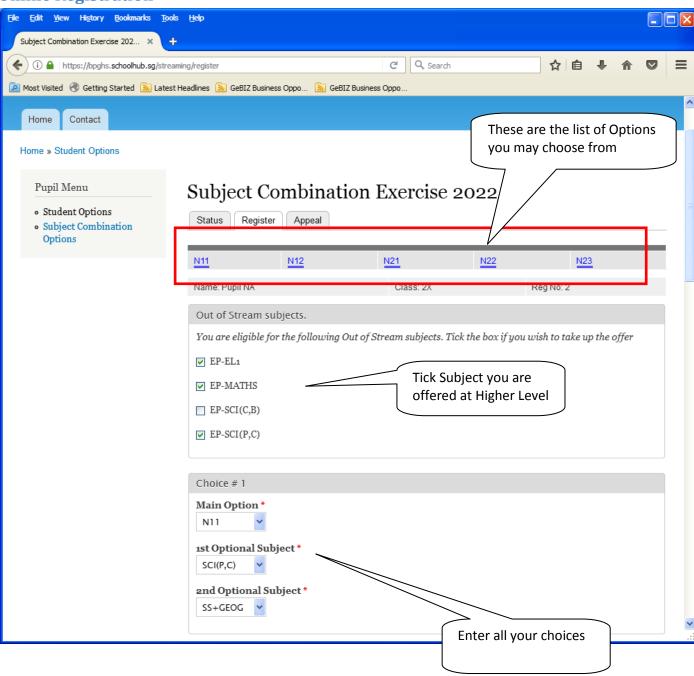
SS+GEOG <=80 across all Options SS+HIST <=60 across all Options SS+ELIT =0 No Limit

Note:

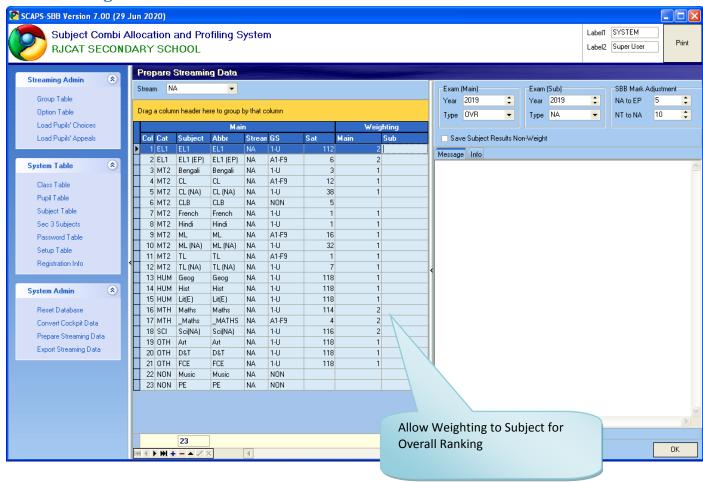
When the Group Max is reached, any option under the group will be CLOSED. When the Option Max is reached, the option will be CLOSED. When the Subject Max is reached, any option with the subject will be CLOSED.

Sample Screen

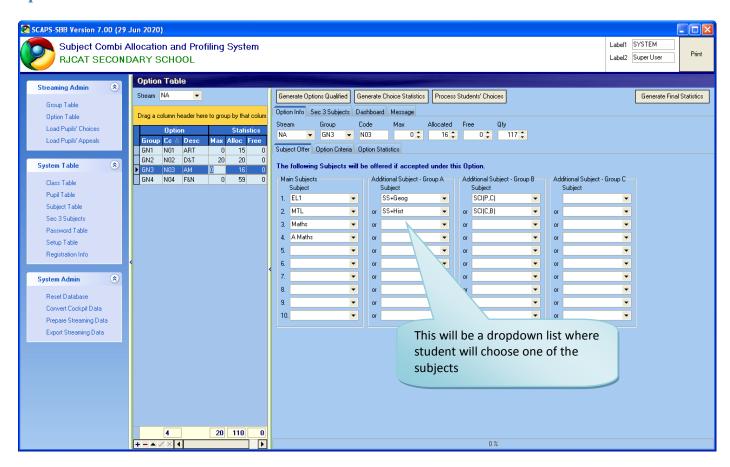
Online Registration



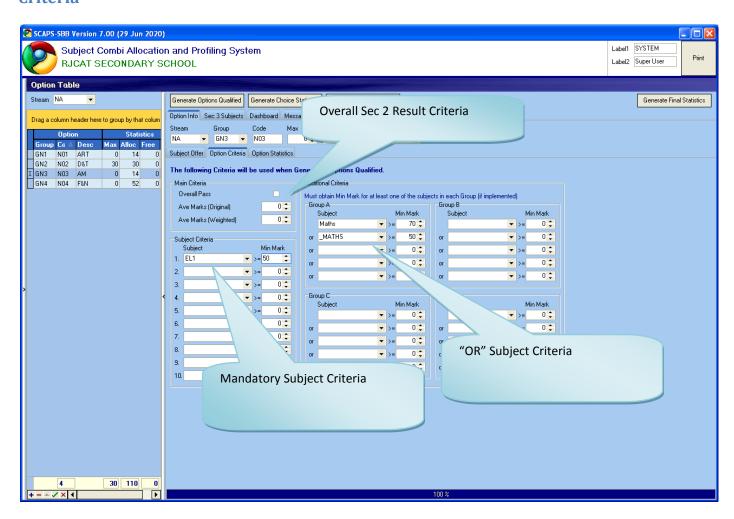
Over Ranking



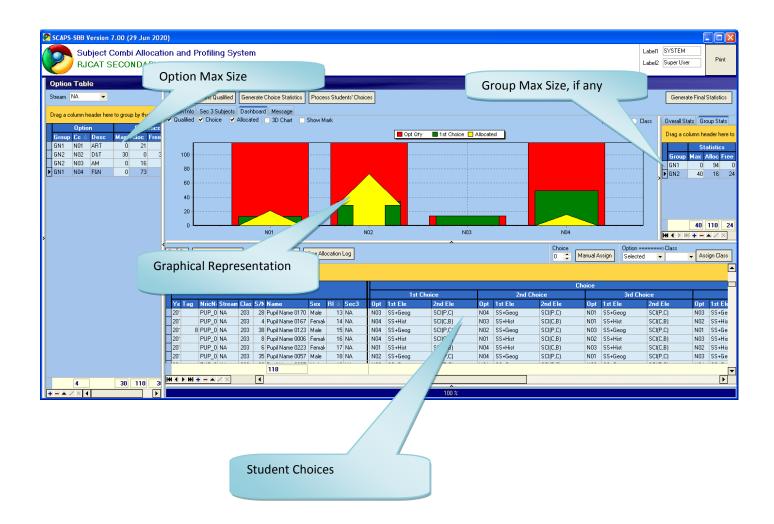
Option Offered



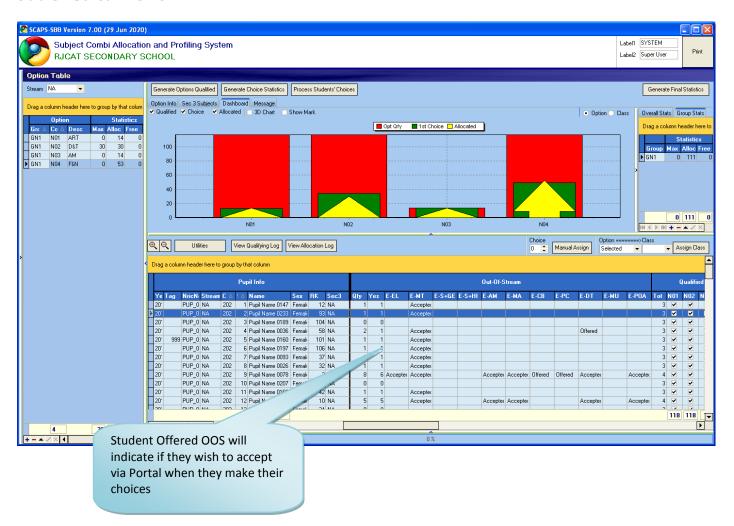
Criteria



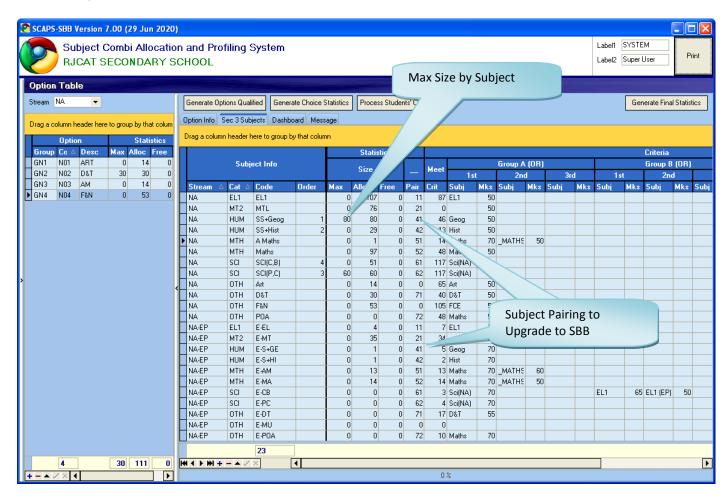
Student Choices



Out-Of-Stream Offer

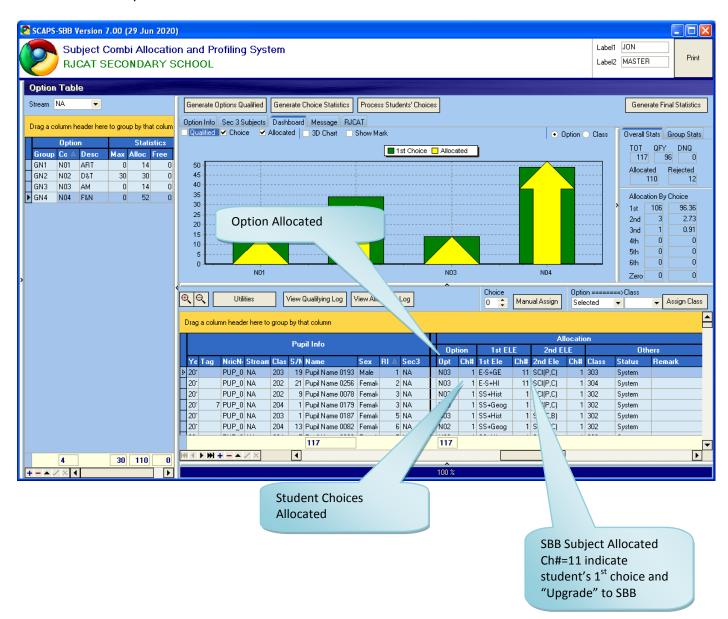


Sec 3 Subject Criteria

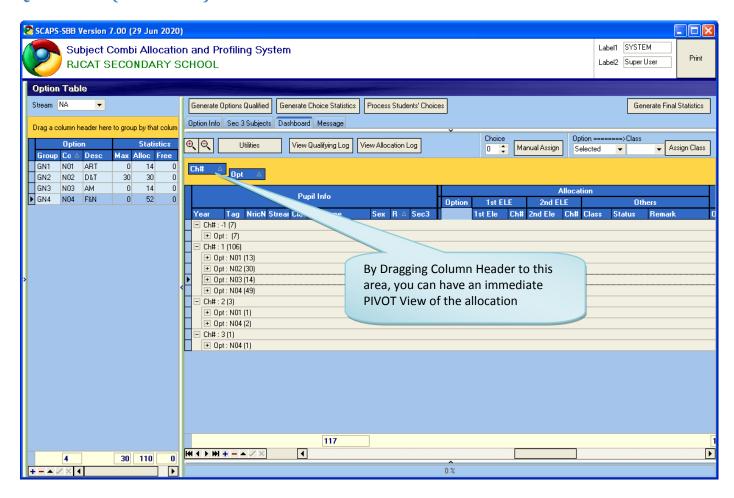


Allocation

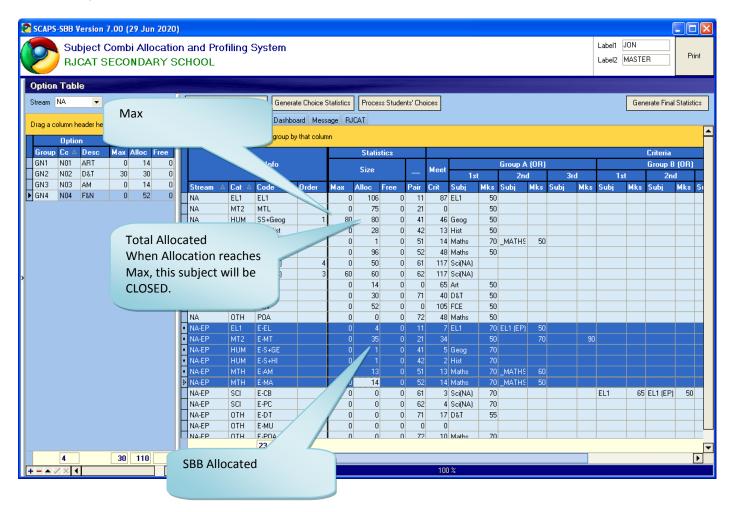
Allocation takes only 30 seconds or less.



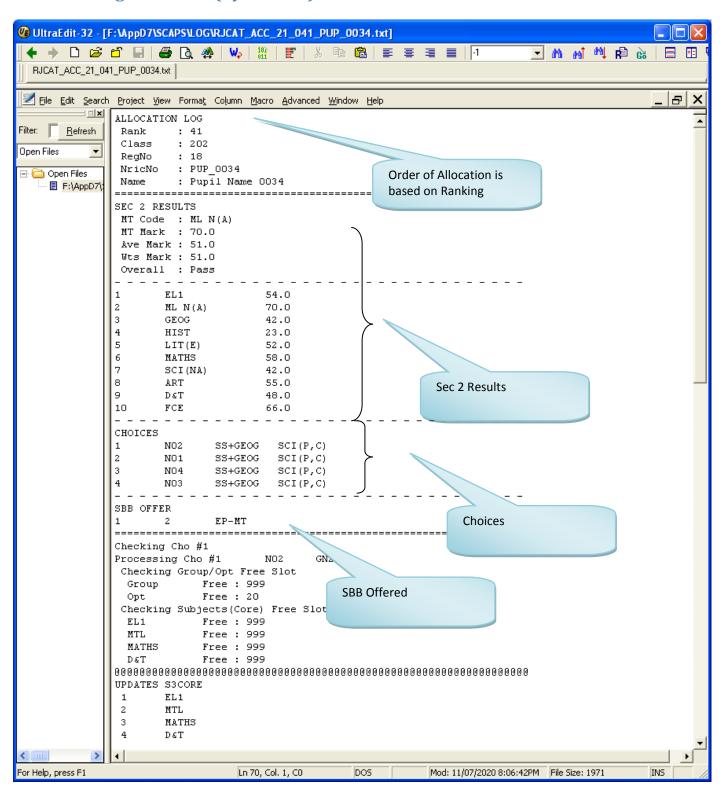
Quick View (Pivot View)

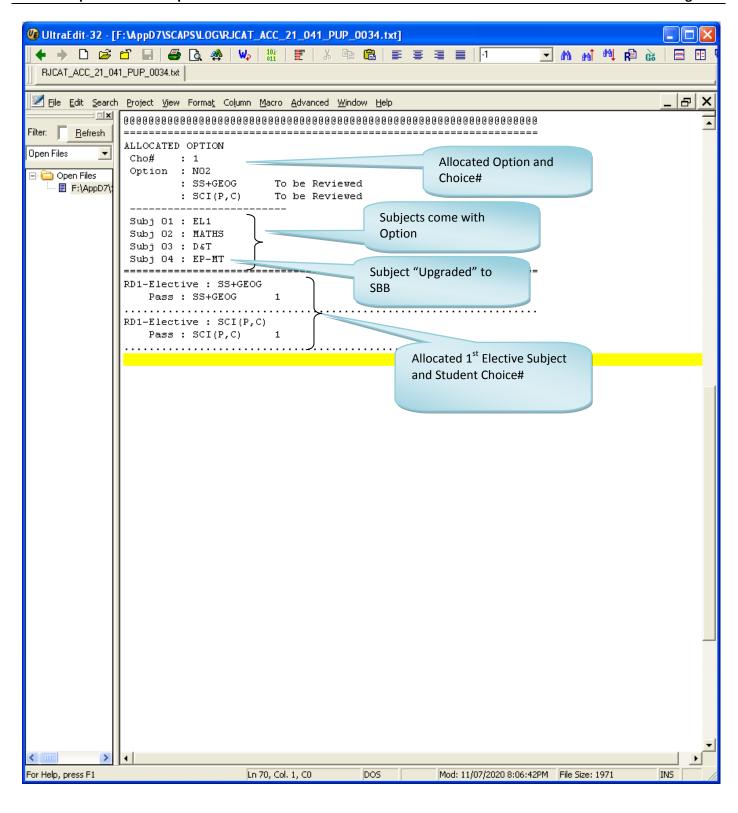


Sec 3 Subject Statistics

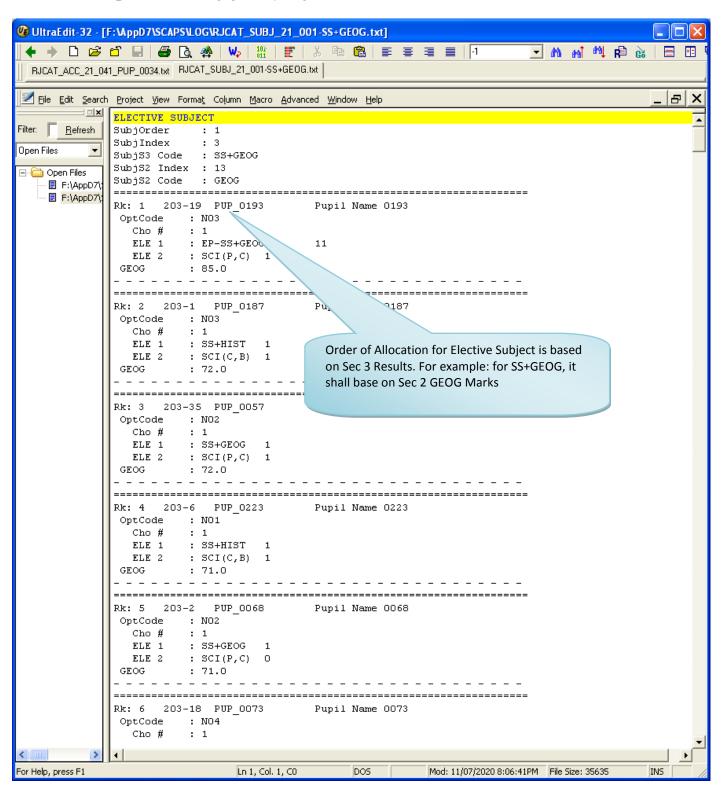


Allocation Log for review (By Student)

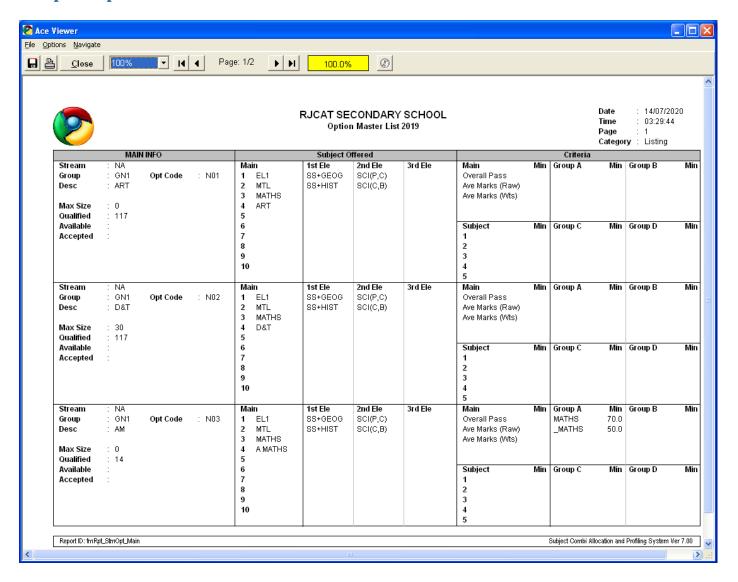




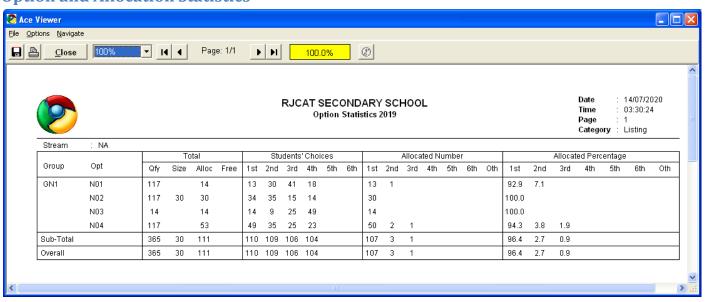
Allocation Log for review (By Subject)



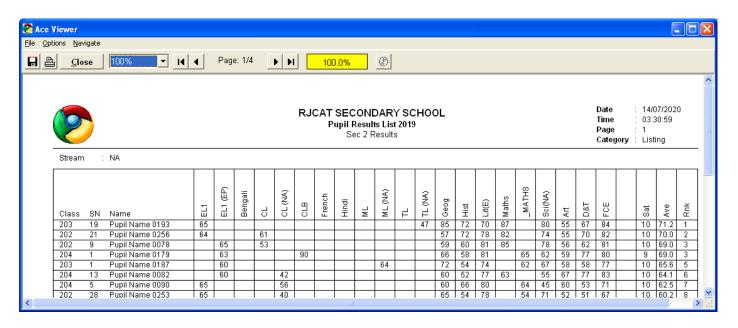
Sample Reports



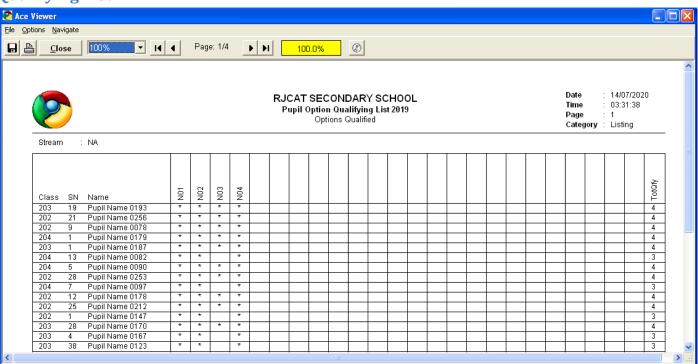
Option and Allocation Statistics



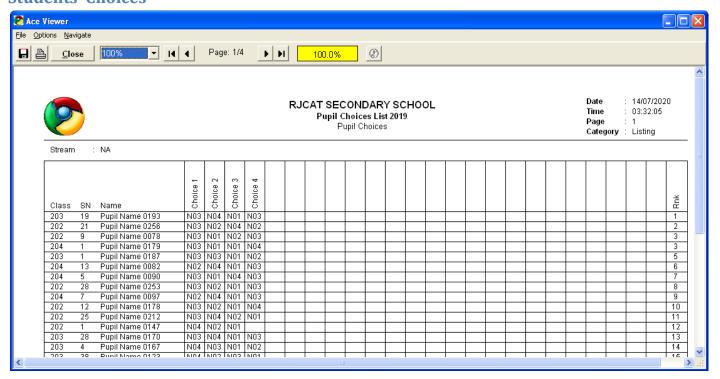
Sec 2 Results (By Rank)



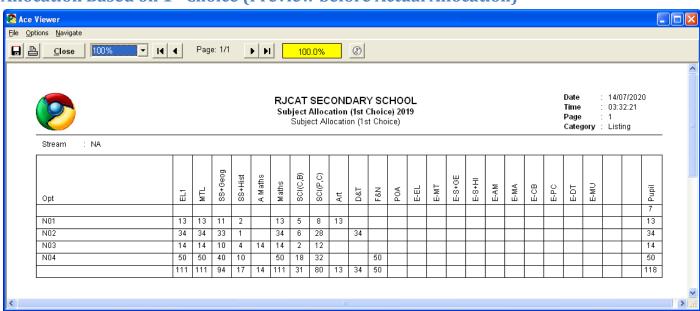
Qualifying List



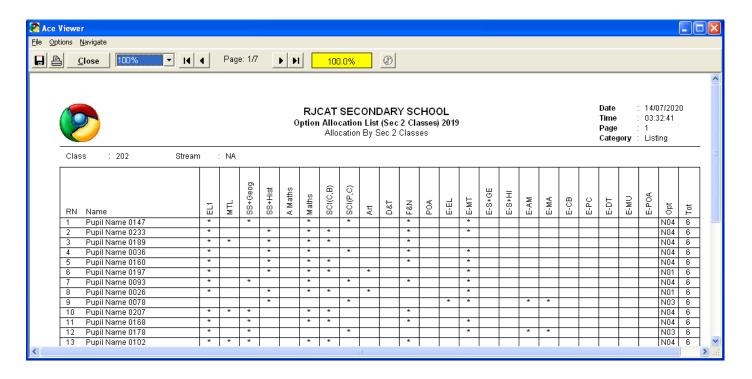
Students' Choices



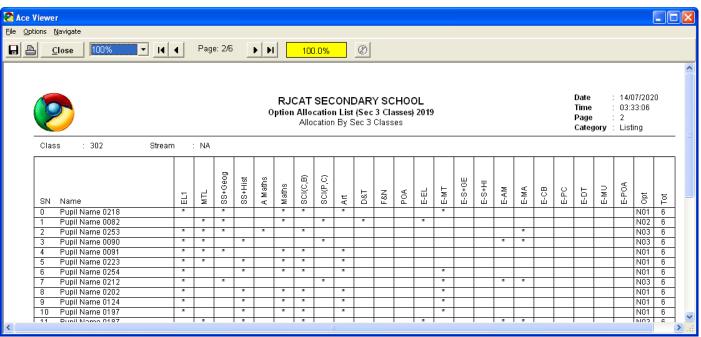
Allocation Based on 1st Choice (Preview before Actual Allocation)



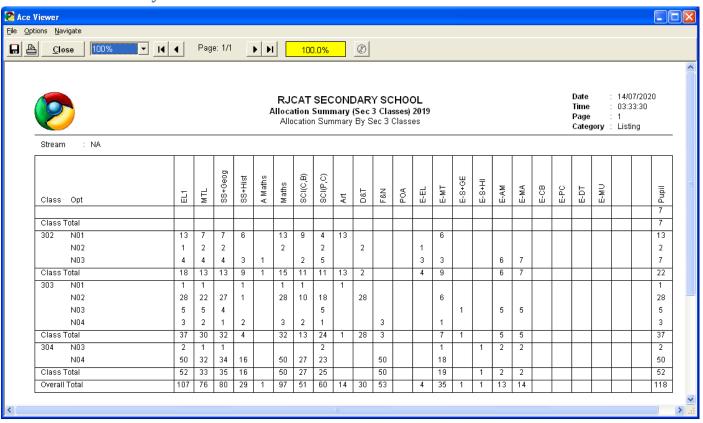
Allocation List based on Sec 2 Classes



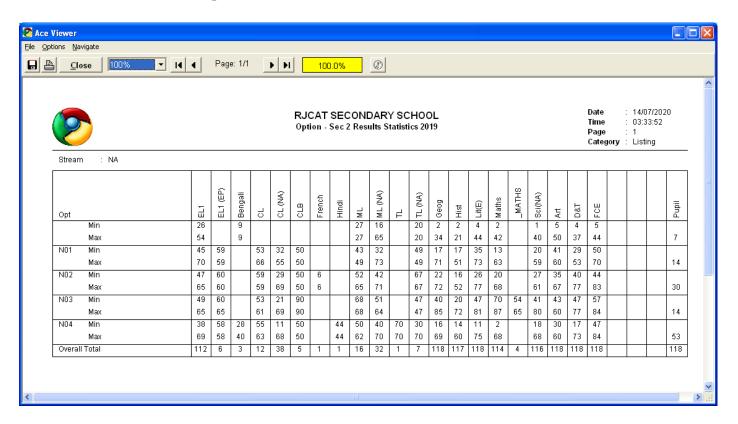
Allocation List based on Sec 3 Classes



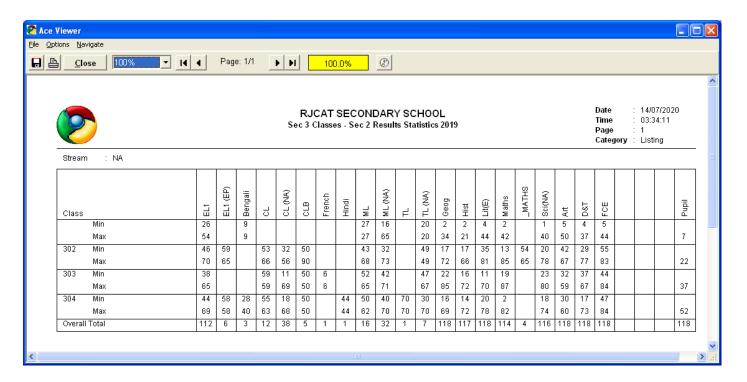
Allocation Summary



Allocation Check List - Option vs Sec 2 Results



Allocation Check List - Sec 3 Class vs Sec 2 Results



Individual Allocation Form

