Comprehensive Result Analysis

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Objectives

- Identify / select courses in which students are showing weak performance

- Set benchmarks for each year for continuous growth

- Corrective measures for each paper

- Identify weakness of each student and take corrective measures

- Alert students about their performance and inform parents

Three parts

- Results of Class (Programme)
- Results of a course (paper)
- Results of Individual student

Results of Class (Programme)
Results of a Course (paper)

- Key Factors
  - Pass Percentage (total)
  - Grade Distribution- A+, A, B+, B……(numbers)
  - Pass in each paper
  - Grade Distribution- A+, A, B+, B……(numbers)
  - Mean, Median, Skewness, Std deviation of each course (paper)

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Average (Mean)

- 45 , 45
- Mean = 45

- 20, 70
- Mean = 45

mean

The mean is the average or norm.

- Add up all of the values to find a total.
- Divide the total by the number of values you added together.

$2 + 2 + 3 + 5 + 5 + 7 + 8 = 32$
There are 7 values
Divide the total by 7

$32 \div 7 = 4.57$

The mean is 4.57

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Median

$$1, 3, 3, \mathbf{6}, 7, 8, 9$$

Median = <u>6</u>

$$1, 2, 3, \mathbf{4}, \mathbf{5}, 6, 8, 9$$

Median = $(4 + 5) \div 2$

= <u>4.5</u>

•The median is the middle number in a sorted, ascending or descending, list of numbers and can be more descriptive of that data set than the average.

•The median is sometimes used as opposed to the mean when there are outliers in the sequence that might skew the average of the values.

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Skewness

Positive Skew — Mode, Median, Mean
Symmetrical Distribution — Mean, Median, Mode
Negative Skew — Mean, Median, Mode
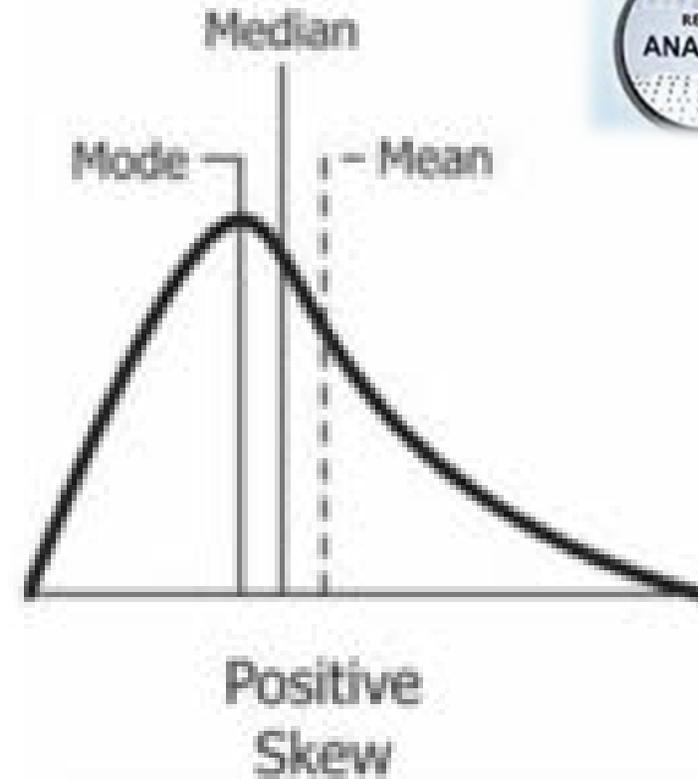
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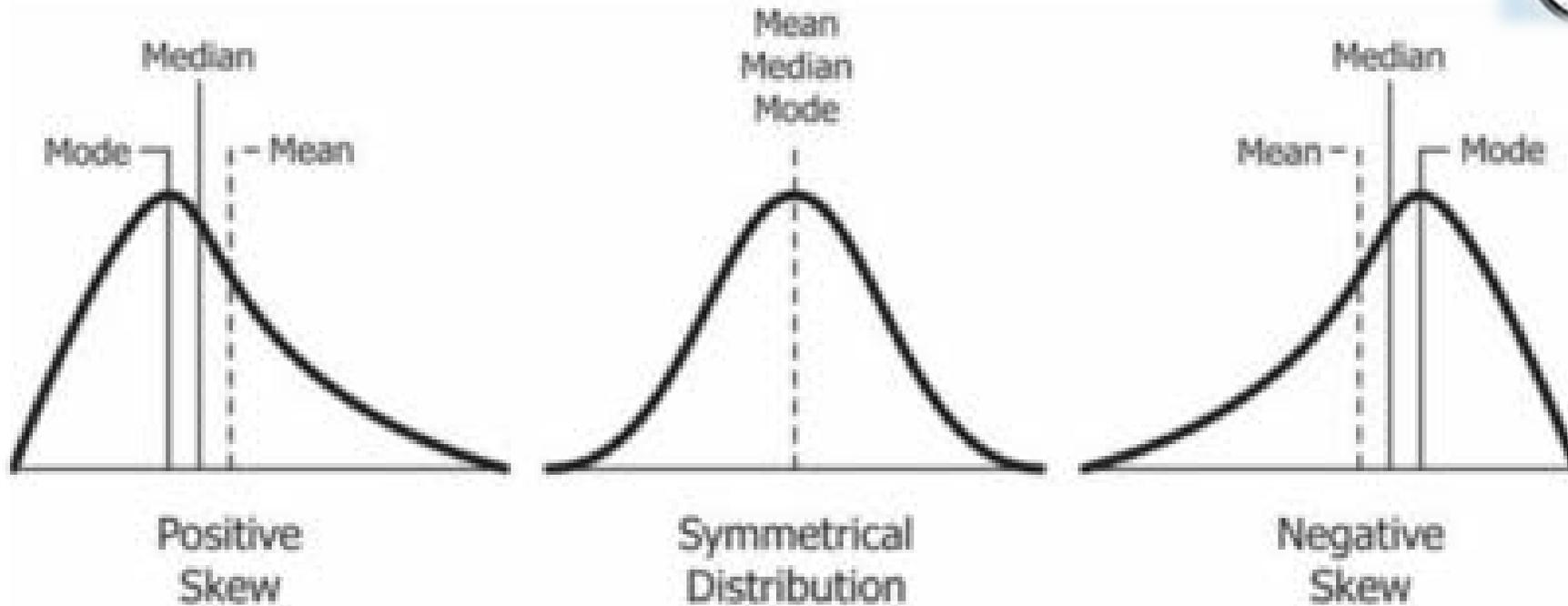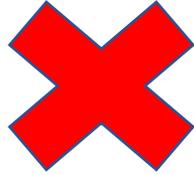
Positive skewness

- Mean (average) marks greater than median- more number of students are having less marks

- Positive skew values are not good

Negative skewness

- Mean (average) marks less than median- more number of students are having high marks

- Negative skew values are good

Negative Skew

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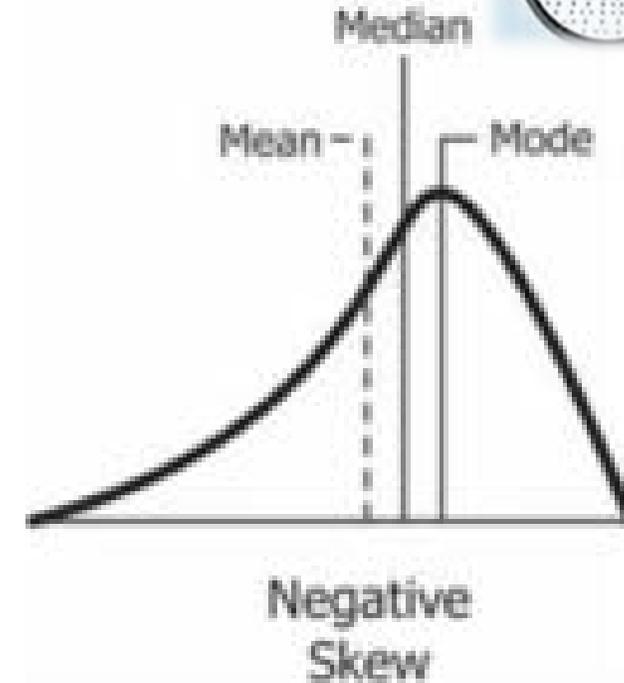
Our targets- Results of Class (program)

- Average marks greater than 70 with a negative skew

- Maximum marks above 85

- Standard deviation less than 18

- Pass percentage- above 80

Results of Individual Student

- Key factors
  - Results of qualifying exam (plus two)
  - Relative progress of student w. r. to qualifying exam
  - Strength and weakness of each student

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Relative progress

- Plus two marks converted to rank

- Total marks in a semester converted to rank

- Relative progress = Semester rank – plus two rank

Z Score

- A **z-score** describes the position of a student's score in terms of its distance from the **mean (class average)** when measured in standard deviation units. The **z-score** is positive if the **value** lies above the **mean**, and negative if it lies below the **mean**. A student with a positive z score means he/she is performing above average.

- For aesthetic appeal, the z score has been multiplied by a factor 10 and the decimals are rounded off.

Selection criteria for a course (paper)

| Selection criteria of courses					
Category	Fail %	skewness	Avg marks (%)	Std dev	Max marks (%)
z	>10	> + 0.5	<55	>18	<80
y	>10	> + 0.5	<55	>18	
x	>10	> + 0.5			

Our targets (benchmark)- Results of Class (program)

- Average marks greater than 70 with a negative skew

- Maximum marks above 85

- Standard deviation less than 18

- Pass percentage- above 80

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Corrective measures for a paper

Category	Actions
z	syllabus modifications
	additional crash course towards the beginning of exam
	make compulsory - anwering of previous question papers
	special coaching to weak learners
y	make compulsory - anwering of previous question papers
	special coaching to weak learners
x	special coaching to weak learners

Sample results
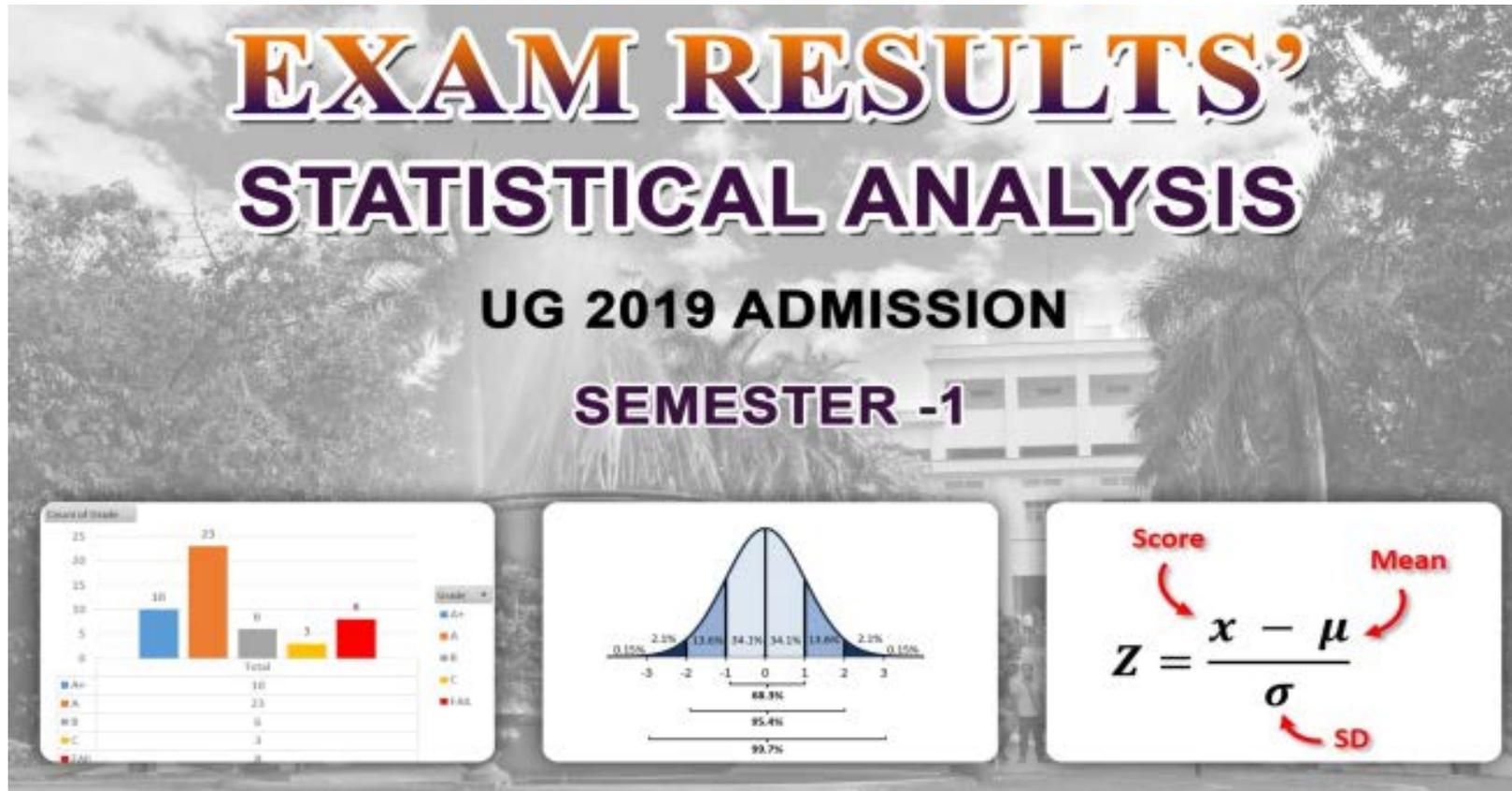
Individual result

1. B.A. Economics

Part 1: Individual Student Result

Pass percentage: 83.05%

										RANK FIRST SEM	RANK PLUS TWO	RELATIVE PROGRESS	SIGNATURE
REG NO	NAME	PLUS TWO	CC19UENG1A01	CC19UENG1A02	Second Language	CC19UECO1B01	CC19UHIS1C01	TOTAL					
CCATAECR04	DITHI C N	69.60	54	68	85	85	70	362	8	47	39	
CCATAECR31	EDWIN PETER	53.58	57	54	62	49	56	278	29	58	29	
CCATAECR44	REMY SHIJU	69.80	50	66	78	62	64	320	18	46	28	
CCATAECR40	NAVYA VARGHESE	83.75	59	62	68	79	74	342	14	35	21	
CCATAECR53	TUNAMOL ROY	89.33	45	52	85	86	80	348	10	26	16	
	LAKSHMI											

Performance of Class

Part 2: Comprehensive Result Analysis

Division	Average marks	median	skew	Maximum marks	Std deviation	O	A+	A	B+	B	C	P	F	Incomplete	Total fail	total	Avg internal marks
CC19UENG1A01 Credit : 3 IA Max - 15 ESE Max - 60	46.9	46	-0.09	69	11.82	0	5	9	12	12	12	5	0	4	4	59	11.1
CC19UENG1A02 Credit : 3 IA Max - 15 ESE Max - 60	48.6	52	-0.73	71	14.45	0	9	11	13	8	8	3	0	7	7	59	12.9
Second Language Credit : 4 IA Max - 20 ESE Max - 80	62.8	68	-0.71	96	22.23	1	8	11	12	6	6	5	0	10	10	59	14.5
CC19UECO1B01 Credit : 5 IA Max - 20 ESE Max - 80	56.8	58	-0.40	91	23.29	0	7	10	8	4	11	9	0	10	10	59	14.5

Selection of paper

Part 3: Category-wise distribution

	CATEGORY	
Z	**Y**	**X**
NIL	Second Language Credit : 4 IA Max - 20 ESE Max - 80	CC19UENG1A02 Credit : 3 IA Max - 15 ESE Max - 60
	CC19UECO1B01 Credit : 5 IA Max - 20 ESE Max - 80	

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Z-score (Strength and Weakness of student)

Part 4: Z-score

CLASS AVERAGE	46.9122807	48.56140351	62.82142857	56.80701754	58.59649123
SUBJECT	CC19UENG1A01 Credit : 3 IA Max – 15 ESE Max – 60	CC19UENG1A02 Credit : 3 IA Max – 15 ESE Max – 60	CC19UHIN1A07(1) Credit : 4 IA Max – 20 ESE Max – 80	CC19UECO1B01 Credit : 5 IA Max – 20 ESE Max – 80	CC19UHIS1C01 Credit : 4 IA Max – 20 ESE Max - 80
AFEELA MOHAMMED	-2	6	11	5	0
ANNIE JOSEPH	19	11	14	13	13
DAVID P.W	2	-5	-11	-8	-5
DITHI C N	6	13	10	12	7
JESINA JOY	-6	-2	-8	-2	-6
JOMOL JOHN	-1	4	3	7	9
LAKSHMI RAMACHANDRAN	9	5	5	8	7
PAWNA PRADEEPKUMAR	10	7	12	9	12
SANJAY T.P	-11	-11	-18	-16	-11
SNEHAL K H	2	5	-2	-4	-8
YAHYA BABU	6	0	-5	-2	4

PLG Activities

PEER LEARNING GROUP (PLG) ACTIVITIES

Dear teachers, thanks for your cooperation on making peer learning groups (PLGs). Please conduct following activities to each PLG.

Chief Mentor

1. Assign model/previous question paper to each group

2. Assign review paper on the specific subject to each group for Group presentation

3. Conduct a group presentation in presence of chief mentor based on the review paper.

Mentor

Mentor

1. Conduct an online peer group meeting (Conduct personal meeting with each mentee as first phase. In the second phase a group meeting should be conducted)

2. Assign a socio-economic subject for debate to each PLG and conduct the debate.

Work flow

Please follow the following work flow

a. Mentor - Conduct an online peer group meeting (Conduct personal meeting with each mentee as first phase. In the second phase a group meeting should be conducted)
b. Chief mentor- Assign model/previous question paper to each group
c. Chief mentor- Assign review paper on the specific subject to each group for Group presentation
d. Mentor- Assign a socio-economic subject for debate to each PLG and conduct the debate after fourth/second semester exams

Note:

i) Question paper: End semester question papers or PG Entrance exam papers (Core & Complimentary)

ii) Review paper- Paper on the core subject. Should not be too hard for the students

ii) Debate- sample subjects of current affairs – a) Education scenario after covid b) Flaws of Indian judicial system

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