

# **WALCHAND COLLEGE OF ENGINEERING, SANGLI**



## **DEPARTMENT OF INFORMATION TECHNOLOGY**

**Topic:- Exam Data Analysis**

### **PREPARED BY:-**

- 1) HUZEFA M. CHABUKSWAR [2014BIT003]**
- 2) NILESH C. BONDE [2014BIT059]**
- 3) PIYUSH S. ATRAM [2013BIT059]**

### **UNDER THE GUIDANCE OF :-**

**Prof. Mr. U. B. CHAVAN**

## Objectives:-

- To analyse exam result.
- Distribution of student marks on basis of various factors.
- Proper visualization of exam data.
- Understand basics of data analysis.
- Learning Python.

[Main](#)



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## ResultA

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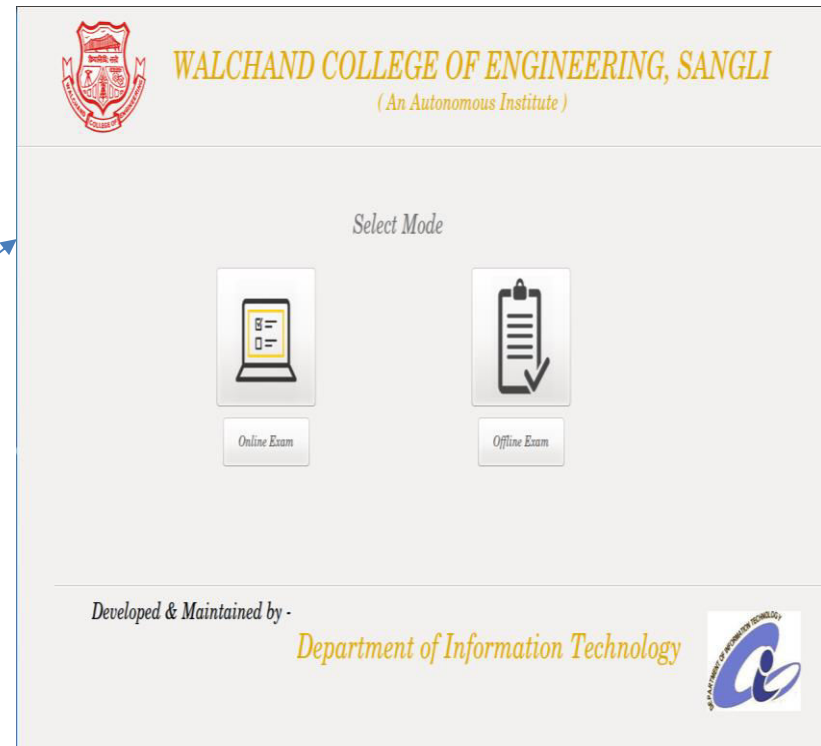
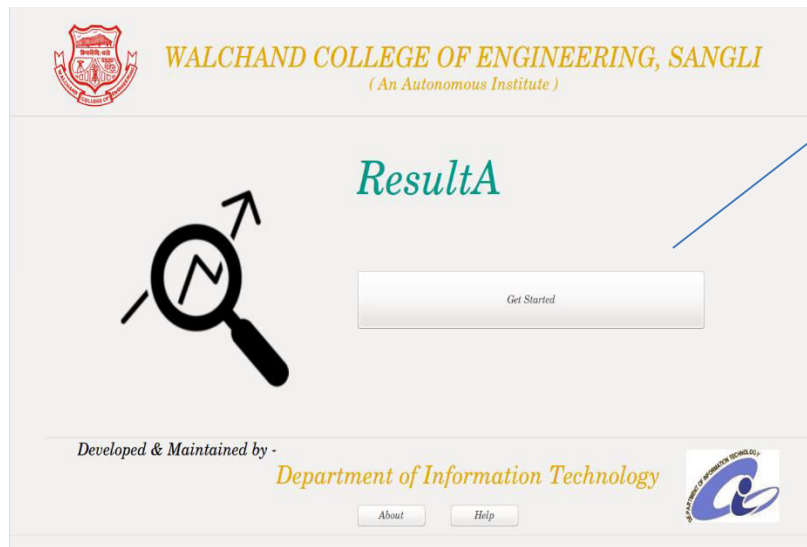
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## Exam type selection



## Generate result



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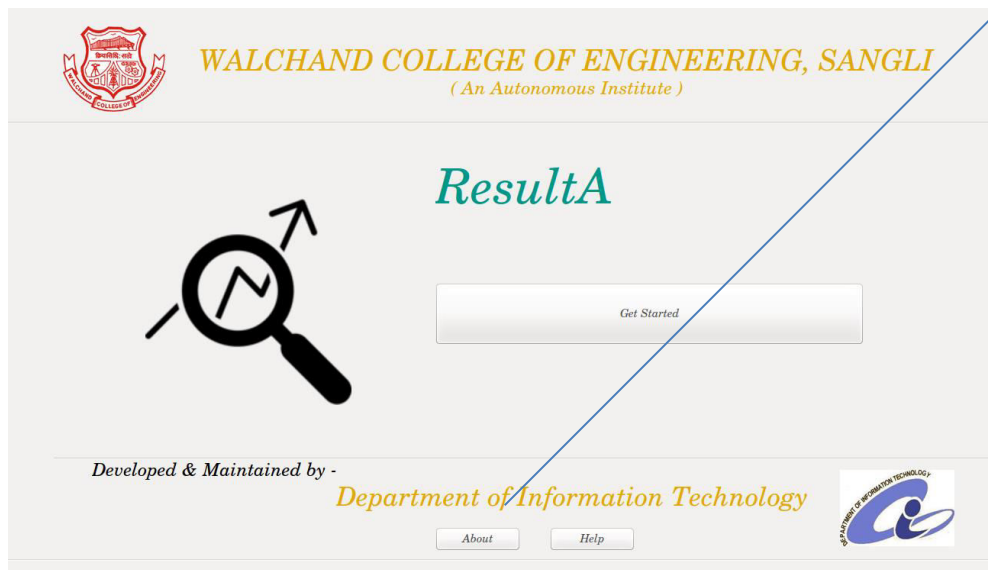
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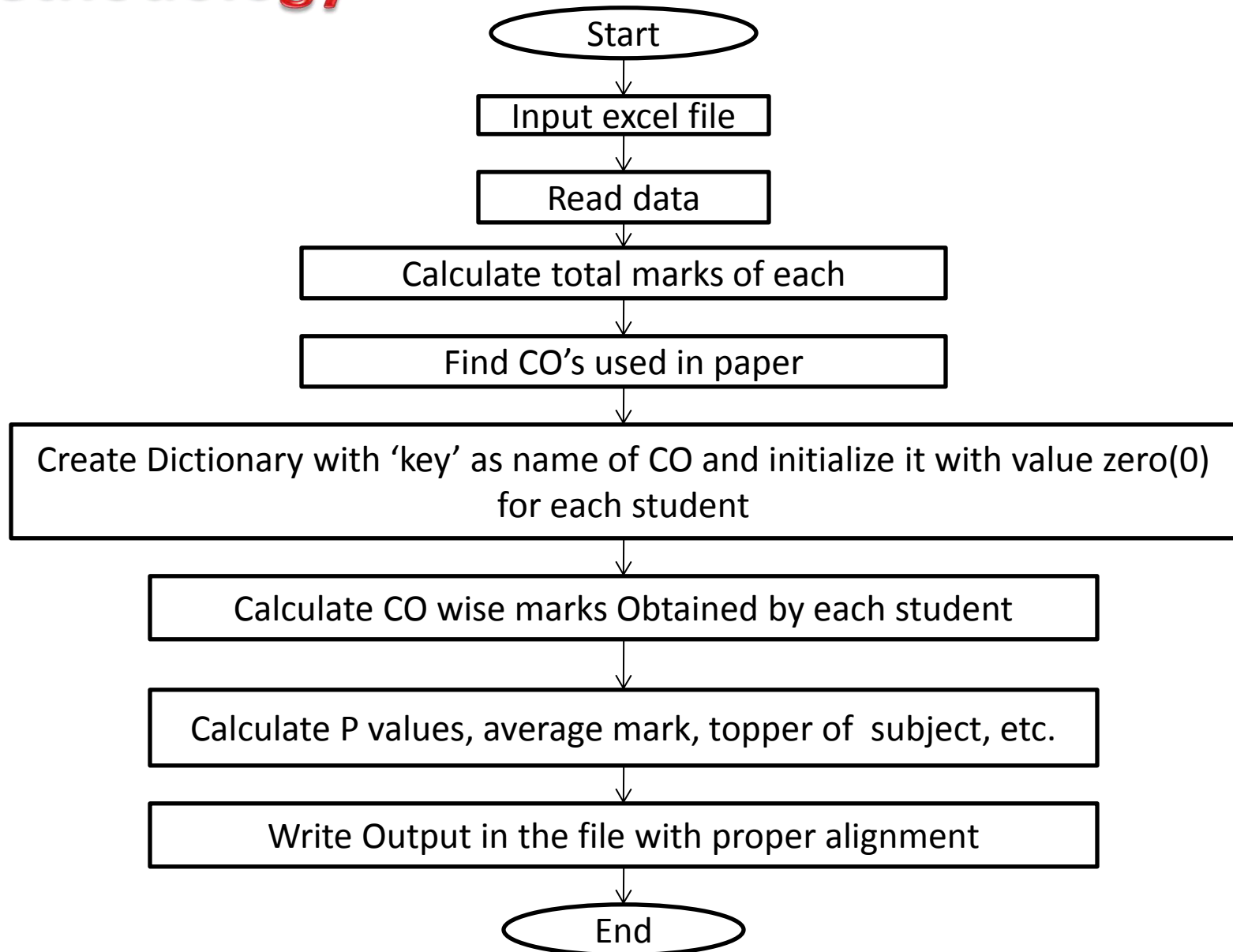
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# Methodology



File Home Insert Page Layout Formulas Data Review View

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B I U

General

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Conditional Formatting Format as Table Cell Styles

Insert Delete Format

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Computation process used: 1. Copy marks from excel sheet of question paper template; 2. Calculate average obtained marks of all students in respective COs; 3. Calculate sum of marks obtained in respective Cos; 4. Calculate number of students scoring marks above average in respective COs; and 5. Calculate P

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
1																													
2																													
3	6	6		6	5		2	5	5	6	5		4																
4	CO2	CO1		CO1	CO2		CO1	CO1	CO1	CO2	CO2		CO1																
5	An-S	Des		An-S	Dig		An-S	Dig	Des	Des	An-S		Des																
6	3.5	1.9		4.3	3.3		0.7	1.5	3.8	2.8	3.8		1.0																
7																													
8	Q1 A)	Q1 B)		Q2 A)	Q2 B)		Q3 A)	Q3 B)	Q3 C)	Q3 D)	Q3 E)		Q4 A)																
9	0	5		0	3.5		2	0	3	0	4		0																
10	4	0		4	0		0	0	5	4	4		0																
11	4	0		6	4		0	0	4	4	2		1.5																
12	4	0		4	1.5		1.5	0	4	3.5	3		0																
13	0	0		3	4		0	0	4.5	4	2		0																
14	4	5		4	4.5		2	4	4.5	4.5	5		0																
15	1	0		5	4		1	0	0	1.5	5		0																
16	0	1		2	0		0	0	1	0	1.5		0																
17	4.5	5		6	4		0	4.5	5	1.5	5		0																
18	4	0		4	0		1	0	3	0	5		0																
19	6	1		6	4.5		0	5	5	3	4		4																
20	5	4		5	4		2	0	5	4.5	5		0																
21	4	3		5	4		0	0	5	0	4		0																
22	5	0		5	5		1	5	4	4	4		4																
23	4	4		2	3		0.5	0	2	3	3		0																
24	6	3		5	4		0	3	5	4.5	5		4																
25	3	0		6	4		0	0	4	4	2		3																
26	5	3		6	5		2	5	5	4	5		1																
27																													
28																													
29																													
30																													
31																													
32																													
33																													
34																													
35																													
36																													
37																													

Average marks of

Sum of marks in

Number of students Above Class Average

Total number

CO1 CO2 CO3 CO4

CO1 CO2 CO3

7 14 0

18

Calculation of P

38.89 77.78 0.00

The above percentages are to be entered as P values against each CO in course book. Similar calculations are to be performed for MSE and ESE also.

10 7.5

9 12

11.5 14

9.5 12

7.5 10

19.5 18

6 11.5

4 1.5

20.5 15

8 9

21 17.5

16 18.5

13 12

19 18

8.5 13

20 19.5

13 13

22 19

0 0

Sheet1 Sheet2 Sheet3

Ready

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Clipboard Font Alignment Number Styles Cells Editing

AutoSum Fill Clear Sort & Find & Filter Select

D2 fx CO4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1			5	5	5	5	4	6								
2			CO1	CO4	CO1	CO2	CO3	CO1								
3			An-S	An-M	An-S	Des	Desc	An-S								
4	Roll no	Name	Q1 A)	Q1 B)	Q2 A)	Q2 B)	Q3 A)	Q3 B)								
5	2014BIT202	SHRADDHALI NARAYAN GAWAS	4	1.5	5	0	4	4								
6	2013BIT016	SATOSKAR KARTIK PRABHAKAR	3	3	2	1	3	5								
7	2013BIT008	PANDIT SANKALP SUNIL	4	5	5	0	4	3.5								
8	2013BIT063	NIKAM MANISH KUMAR ASHOK	3	3	3	5	4	5.5								
9	2014BCS211	SWATI SADASHIV TIPPE	1	2	3	0	4	5								
10	2014BCS218	KHAIRNAR HARSHAL SANJAY	5	5	4.5	2	4	4.5								
11	2013BIT026	RASAL PRANALI POPAT	3.5	5	5	0	4	2								
12	2014BIT201	VEDASHRI VIJAY MAGARE	3	5	2	0	3	3								
13	2014BIT212	KIRAN ARUN PATIL	5	3	1	0	4	4								
14	2013BIT009	JHANWAR ANKITA SURESH	5	5	3.5	0	4	4								
15	2014BIT218	MUKUL DAMU CHAKANE	5	0	3.5	2	4	4								
16	2013BIT055	MOHITE KAJOL VILAS	4	5	5	2	4	5								
17	2014BIT206	SHITAL BAJRANG GAIKWAD	4	1	3	0	4	6								
18	2013BIT030	LAKHMAWAD AVINASH PUNDLIK	3	4	4.5	5	4	6								
19	2013BIT045	THORAT PRIYANKA RAGHUNATH	2	5	2	3.5	4	4								
20	2013BIT054	GOSAVI PRADNYA VIJAY	5	5	5	5	4	6								
21	2014BIT224	SUKANYA VASUDEV VADDEPALLI	4	0	4	0	4	6								
22	2013BIT013	KULKARNI SHRUTI MAHESH	5	5	4.5	4	4	4.5								
23																
24																
25																
26																

Sheet1

Ready

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LibreOffice Calc interface showing a spreadsheet with columns A through O and rows 1 through 34. The spreadsheet contains data for a student performance analysis, including roll numbers, names, and various scores (CO1, CO2, CO3, CO4) and their averages. The status bar at the bottom indicates 'Sheet 1 / 1', 'PageStyle\_PySheet1', and 'Sum=0'.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2			CO1	5	CO4	5	CO1	5	CO3	4	CO1	6			
3			An-S		An-M		An-S		Des		Desc				
4	Roll no	Name	Q1 A)	Q1 B)	Q2 A)	Q2 B)	Q3 A)	Q3 B)	Total	CO1	CO3	CO2	CO4		
5	2014BIT202	SHRADDHA	4	1.5	5	0	4	4	18.5	13	4	0	1.5		
6	2013BIT016	SATOSKAR	3	3	2	1	3	5	17	10	3	1	3		
7	2013BIT008	PANDIT SAI	4	5	5	0	4	3.5	21.5	12.5	4	0	5		
8	2013BIT063	NIKAM MAN	3	3	3	5	4	5.5	23.5	11.5	4	5	3		
9	2014BCS218	SWATI SAD	1	2	3	0	4	5	15	9	4	0	2		
10	2014BCS218	KHAIRNAR	5	5	4.5	2	4	4.5	25	14	4	2	5		
11	2013BIT026	RASAL PRA	3.5	5	5	0	4	2	19.5	10.5	4	0	5		
12	2014BIT201	VEDASHRI	3	5	2	0	3	3	16	8	3	0	5		
13	2014BIT212	KIRAN ARU	5	3	1	0	4	4	17	10	4	0	3		
14	2013BIT009	JHANWAR	5	5	3.5	0	4	4	21.5	12.5	4	0	5		
15	2014BIT218	MUKUL DA	5	0	3.5	2	4	4	18.5	12.5	4	2	0		
16	2013BIT055	MOHITE KA	4	5	5	2	4	5	25	14	4	2	5		
17	2014BIT206	SHITAL BA	4	1	3	0	4	6	18	13	4	0	1		
18	2013BIT030	LAKHMAWA	3	4	4.5	5	4	6	26.5	13.5	4	5	4		
19	2013BIT045	THORAT PR	2	5	2	3.5	4	4	20.5	8	4	3.5	5		
20	2013BIT054	GOSAVI PR	5	5	5	5	4	6	30	16	4	5	5		
21	2014BIT224	SUKANYA	4	0	4	0	4	6	18	14	4	0	0		
22	2013BIT013	KULKARNI	5	5	4.5	4	4	4.5	27	14	4	4	5		
23															
24															
25															
26			Average Mar	21											
27			Topper in sub	2013BIT054											
28			P value for	61.11111111											
29			P value for	88.88888889											
30			P value for	44.44444444											
31			P value for	55.55555556											
32															
33															
34															

**Thank You.....!!!**