BASIC EXCEL



EXCEL WELCOME PAGE



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Track My Tasks

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Manage My Money

Family Budget



Personal Budget



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TOOL BARS





CELL BASICS

- Cells have references based on their location:
 - Letter for columns
 - Numbers for rows
 - Example A1 --> Column A row 1
- Cell references can be:
 - Relative cell references move when you copy them.
 - Absolute cell references do not move when you copy them. They are noted by dollar sign \$ in front of cell reference. Example: \$A\$1

CELLS & THEIR FORMATS



Cells accept text, numbers in different formats, dates, time etc. By clicking in General you can see all the possible formats with examples.



			Format	Cells			
	Number	Alignment	Font	Border	Fill	Protection	
Category:		Sample					
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Date formats display date and time serial numbers as date values. Date formats that begin with an asterisk (*) respond to changes in regional date and time settings that are specified for the operating system. Formats without an asterisk are not affected by operating system settings.

Cancel OK

3

- Cell formatting can be done before or after data is entered.
- It can be applied to one specific cell or to a range of cells either in a row or column.





- Can be changed at any time.
- Text in a cell can also be formatted.
 - Font type, size, color, underline, strike out, super or subscript.

B1	.6	\times	f_{x}		
	Α	В	С	D	
1	Department	Sections			
2	Couses Id	# of Section	# of Students	Prof Teaching	3
3	ADM	10	300	5	
4	FINA	15	450	8	
5	CONT	10	300	8	
6	SICI	8	240	4	
7	REHU	10	300	5	
8					
-					

Enter the data as shown above.

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To change the cell size:

- 1. Position the cursor between 2 cells and double click. or
- 2. Position the cursor between 2 cells and while holding the left mouse button drag the cell to the right.
- 3. Add dates, student number and other data and apply formats.

- 1. Select any cell within your table.
- 2. On the **Home** tab, click **Format as Table**.



3. Select desired style.

ADDING STYLE TO A SHEET

4. Check range of table and click Ok.



5. Refine style if necessary.



ADDING STYLE TO A SHEET



- All formulas must start with the equal sign **=**.
- Select the cell where you want to enter a formula.
- Write the = sign and enter formula.

ENTERING BASIC FORMULAS IN EXCEL

B8	$ \times \checkmark$	fx =B3+B4+B5+B6+B7				
	Α	В	С			
1	Department Sections					
2	Couses Id	# of Section	# of Students			
3	ADM	10	300			
4	FINA	15	450			
5	CONT	10	300			
6	SICI	8	240			
7	REHU	10	300			
8	Total	= <mark>B3+B4</mark> +B5+B6+B7	=SUM(C3:C7) 2			

A۱	/erage 💂	×	<i>fx</i> =	
	Α	В	U	U
1	Department Sections			
2	Couses Id	# of Section	# of Students	Prof Teaching
3	ADM	10	300	5
4	FINA	15	450	8
5	CONT	10	300	8
6	SICI	8	240	4
7	REHU	10	300	5
8	Total	53	1590	=
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ula Builder

Q Search

IF

Most Recently Used AVERAGE SUM **HYPERLINK** COUNT MAX SIN SUMIF PMT **STDEV** ABS **Insert Function**

 $\int x$ AVERAGE

Returns the average (arithmetic mean) of its arguments, which can be numbers or names, arrays, or references that contain numbers.

Syntax

All

AVERAGE(number1,number2,...)

Number1: number1.number2.... are 1 to 255

USING EXCEL FUNCTIONS

- Click the fx symbol. The equal sign 1. = will appear.
- 2. Double click on the selected function from the Formula Builder menu or click on Insert Function.
- 3. Check if selected range is correct. If not it can be modified directly in the function.

or Enter.

4. Click the

A۱	/ERAGE 🌲	×	<i>fx</i> =B3*	\$E\$1	
	Α	В	С	D	E
1	Department	Sections			0.1
2	Couses Id	# of Section	# of Students	Prof Teachin	g
3	ADM	10	300	10	=B3*\$E\$1
4	FINA	15	450	15	
5	CONT	10	300	8	
6	SICI	8	240	10	
7	REHU	10	300	10	
8	Total	53	1590	10.6	

- 1. Enter formula.
- 2. Position cursor in the formula bar left of E1.
- 3. Press F4 function key. The \$ signs will appear in formula.

OTHER FORMULAS ABSOLUTE REFERENCE & COPY

+

E3 🗘	XV	fx	=B3*\$E\$1
------	----	----	------------

/	А	В	С	D	E	
1	Department Sections				0.1	
2	Couses Id	# of Section	# of Students	Prof Teaching		
3	ADM	10	300	10	=B3*\$E\$1	
4	FINA	15	450	15	=B4*\$E\$1 (+	V
5	CONT	10	300	8	=B5*\$E\$1	
6	SICI	8	240	10	=B6*\$E\$1	
7	REHU	10	300	10	=B7*\$E\$1	
8	Total	=B3+B4+B5+B6+B7	=SUM(C3:C7)	=AVERAGE(D3:D7)		

- To copy formula to all cells in the column position cursor in the bottom right corner of the cell with the formula until a + appears.
- 2. While holding the left mouse button, drag the + until the end of the data.

OTHER FORMULAS ABSOLUTE REFERENCE & COPY

Hierarchy of Operations

Туре	Operator	Order Performed		
Arithmetic operations are performed first, in order shown	() ^ * / % + -	1 st parentheses 2 nd exponentiation 3 rd : multiplication, division, modulus 4 th : addition, subtraction		
Relational operations are performed second	= <> < <= > >=	All relational operators have equal precedence		
Logical operations are performed last, in the order shown	NOT AND OR	1 st : NOT 2 nd : AND 3 rd : OR		

OTHER FORMULAS

SUM		×	\checkmark	f_{x}	= <mark>F3-C3/C3</mark>	-	WRONG
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	A	В	С	D	E	F	G
1	Department Sections				0.1		
			# of Students			# of Students	
2	Couses Id	# of Section	(Sem1)	Prof Teaching		(Sem2)	% of Change
3	ADM	10	300	10	=B3*\$E\$1	250	=F3-C3/C3
4	FINA	15	450	15	=B4*\$E\$1	400	
5	CONT	10	300	8	=B5*\$E\$1	285	
6	SICI	8	240	10	=B6*\$E\$1	220	
7	REHU	10	300	10	=B7*\$E\$1	275	
8	Total	=B3+B4+B5+B6+B7	=SUM(C3:C7)	=AVERAGE(D3:D7)	=SUM(E3:E7)		

G3	* *	×	✓ <i>fx</i> =(F3-C3	s)/C3	RIGHT				
	Α		В	С	D	E	F	G	
l De	epartment	Sections				0.1			
2 Co	ouses Id		# of Section	# of Students (Sem1)	Prof Teaching		# of Students (Sem2)	% of Change	
3 AI	DM		10	300	10	=B3*\$E\$1	250	=(F3-C3)/C3	
4 FI	NA		15	450	15	=B4*\$E\$1	400		
5 CC	ONT		10	300	8	=B5*\$E\$1	285		
5 SI	CI		8	240	10	=B6*\$E\$1	220		
7 RE	EHU		10	300	10	=B7*\$E\$1	275		
3 To	otal		=B3+B4+B5+B6+B7	=SUM(C3:C7)	=AVERAGE(D3:D7)	=SUM(E3:E7)			

$f_x \lor f_x$ Department Sections

A1

	Name Box	В	С	D	E	F	G
1	Department Sections				0.1		
			# of Students			# of Students	
2	Couses Id	# of Section	(Sem1)	Prof Teaching		(Sem2)	% of Change
3	ADM	10	300	10	=B3*\$E\$1	250	=(F3-C3)/C3
4	FINA	15	450	15	=B4*\$E\$1	400	=(F4-C4)/C4
5	CONT	10	300	8	=B5*\$E\$1	285	=(F5-C5)/C5
6	SICI	8	240	10	=B6*\$E\$1	220	=(F6-C6)/C6
7	REHU	10	300	10	=B7*\$E\$1	275	=(F7-C7)/C7
8	Total	=B3+B4+B5+B6+B7	=SUM(C3:C7)	=AVERAGE(D3:D7)	=SUM(E3:E7)		

OTHER FORMULAS



G
% of Change
-16.67%
-11.11%
-5.00%
-8.33%
-8.33%

To add a new sheet click +



- Double click on Sheet1.
- Enter name of sheet and press return or click once again.
- To add color to the Tab, right click once and select Tab color



CREATING & NAMING SHEETS

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SAVING & PRINTING

	А	В	С	D	Е
1	STUDE	NT ENROLL	MENT		
2	Section	Sem 2 17-18	Sem 1 17-18	Sem 2 16-17	Sem 1 16-17
3	3107	155	208	204	261
4	3106	183	182	214	207
5	4137	48	51	36	34
6	4125	44	68	52	53
7	4145	40	31	41	32
8	4020	31	32	27	29

PRACTICE

- Compute totals and averages for each semester.
- Compute % of change between 17-18 semesters, 16-17 semesters, between first semesters of both years, and between second semesters of both years.
- Compute the maximum amount of students in each class.
- Format cells and table.