



IS
2nd
material

Research methods





Lec 1

Research is a creative and systematic word undertaken to increase the stock of knowledge.

1) Creative (Build something new)

Creative refers to the fact that successful research must provide results that were not previously achieved via previous study.

معني كدا انك بتجيب معلومات جديده مكانتش موجوده قبل كدا وان الي عملو البحث قبل كدا معرفوش يوصلو للي انت وصلته

1- Tool or procedures not been used before

2- investigate new fields.

3- studying unexpected issues.

بمعني انك بتعمل مجهود عشان تستكشف اماكن مكانتش موجوده قبل كدا وتثبت ان انت مميز في حته محدش عملها قبل كدا وتبقي unique فيها .

2) Systematic (general pattern)

Research must be a deliberate activity that adheres to a well-established set of steps and procedures.

يعني بنمشي بطريقه منظمه ولازم تكون ملتزم بمجموعه من الخطوات .

1- Review of the literature.

راجع الي اتعمل قبل كدا

2- Develop your own hypothesis.

طور الافتراض الي انت بتبنيه

3- Test the theory with a comprehensive experimentation.

اختبر تجربتك

4- Consider how your findings may affect others in the domain.

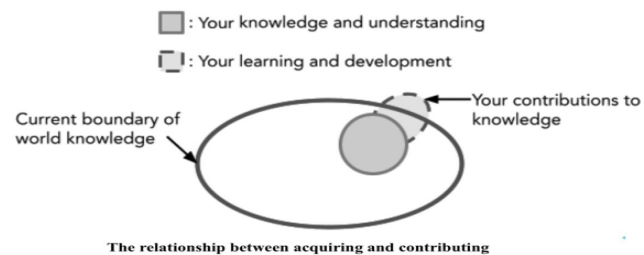
فكر ازاي نتيجتك هتأثر علي الاخرين



3) Increase (acquire and contribute)

“Contributing to knowledge” the act of doing a unique piece study and learning something new for oneself is standard practice.

يعني بتعمل إضافه للمعرفه العامه بتاعت الناس.



4) The stock of knowledge

It will be discussed in terms of a hierarchy consisting of data, information, knowledge, and wisdom.



Data (raw facts)

Information (processing data)

دايما بتجاوب علي سؤال ال "what"

Knowledge

دايما بتجاوب علي سؤال ال "Why"

Wisdom : ability to make sound decisions based on deep understanding.



Thank you

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