



**University of Salahaddin – Erbil
College of Engineering
Architectural Engineering Department**

Course Book of

Evidence-Based Design

2nd Semester

For

Post Graduate Students (M.Sc.)
2023-2024

Three hours per week

Six units

Prof. Dr. Faris Ali Mustafa

B.Sc., M.Sc., and PhD. in Architecture

H.P. No.: 07504524659

E-mail: farisyali@yahoo.com

Websites:

Academia: <http://suh-edu.academia.edu/FARISMUSTAFA>

Research Gate: https://www.researchgate.net/profile/Faris_Mustafa/

Linkedin: <https://www.linkedin.com/in/dr-faris-a-mzoori-741a1438/>

Google Scholar: <https://scholar.google.com.my/citations?user=HpRVbLAAAAAJ&hl=en>

Course Book Subject	Evidence-Based Design (MSc. Students)
Lecturer	Prof. Dr. Faris Ali Mustafa
Department	Department of Architectural Engineering
Contact:	E-Mail: faris.mustafa@su.edu.krd
Coordinator's name:	Dr. Hardee

Evidence-Based Design

General brief about the subject

What is Evidence-Based Design (EBD)?

Evidence-Based Design (EBD) is the process of basing decisions about the built environment on credible research to achieve the best possible outcomes. Included in this process are the following eight steps:

- Define evidence-based goals and objectives.
- Find sources for relevant evidence.
- Critically interpret relevant evidence.
- Create and innovate evidence-based design concepts.
- Develop a hypothesis.
- Collect baseline performance measures.
- Monitor implementation of design and construction.
- Measure post-occupancy performance results.

A large and growing body of evidence proves the fact that physical environment impacts patient stress, patient and staff safety, staff effectiveness and quality of care provided in hospitals and other healthcare settings in particular and buildings in general. Basing healthcare facility planning and design decisions on this evidence to achieve the best possible patient, staff and operational outcomes is what evidence-based design is all about.

Syllabus (course outline)

1. Evidence-based design
2. How to employ evidence-based design strategies?
3. Evidence-Based Design: Methods and Tools for Evaluating Architectural Design
4. What is Evidence-Based Design?
5. Evidence-Based Design in Architectural Education
6. Evidence-based practice
7. Environmental psychology in built environment
8. Why evidence-based design (EBD) is health care architecture's next big thing.
9. Evidence-based design in action: Two recent initiatives are helping EBD move from the research stage to design innovation
10. Neuro-architecture
11. User centered design
12. human-centered architectural design (Human-Centered Design HCD)
13. Crime Prevention Through Environmental Design

Useful References

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