Virtual Workshop

On "MediTec" Project
(Training for Medical Education via Innovative e-Technology)

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How to implement …
e-learning system

It is time to pay attention to

“e-learning system design”

rather than

“individual e-course design”.

COVID-19

Till now

- Urgent unexpected transforming of “courses” to “e- or remote courses”
- Mostly by each individual faculty member

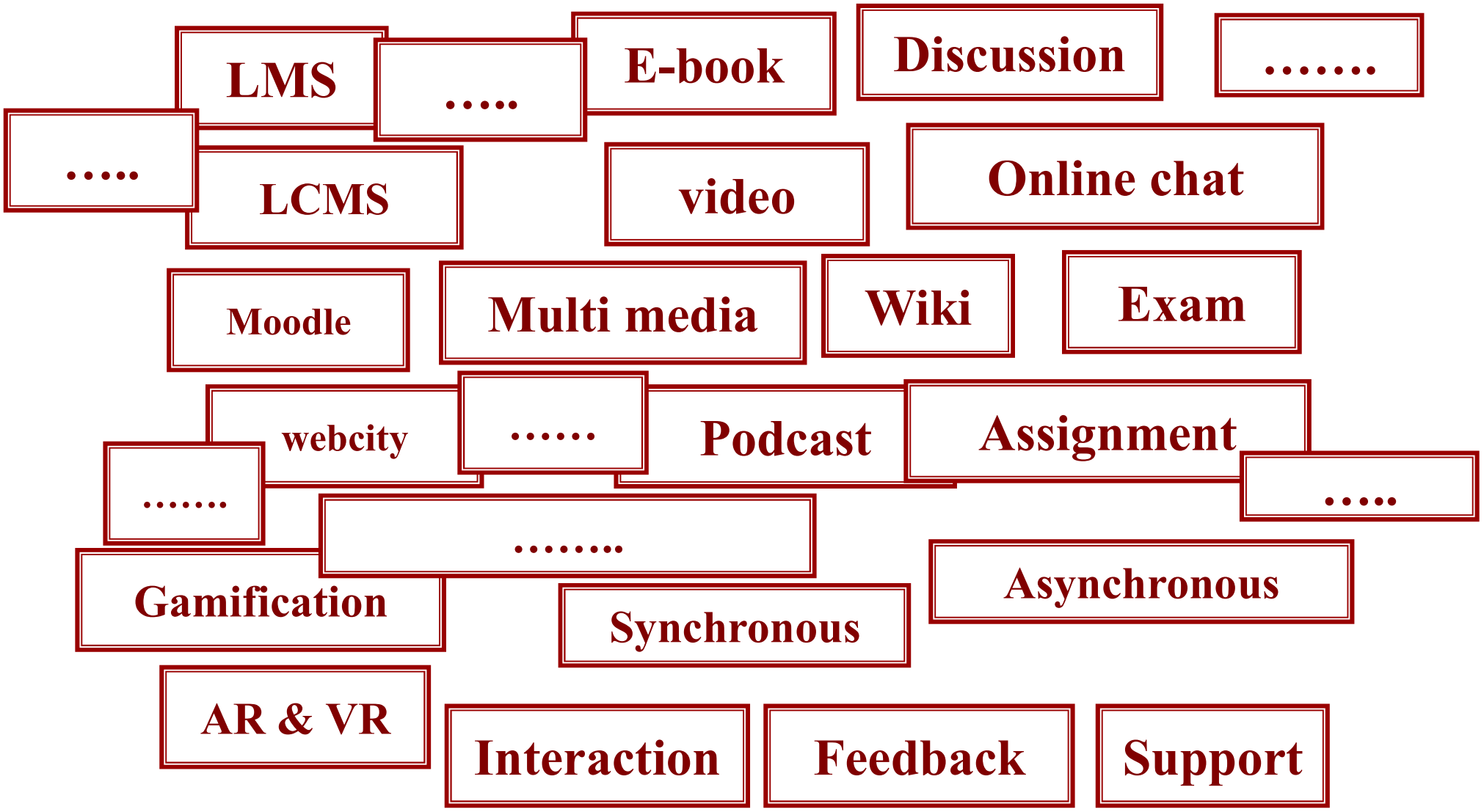
From now on

- Systematic approach to high quality e-learning implementation
- Schools and universities should play their role to guide and support each individual faculty member

Reflection

Imagine you are going to design and implement e-learning systematically in your department, school or university.

What are you going to do?


LMS
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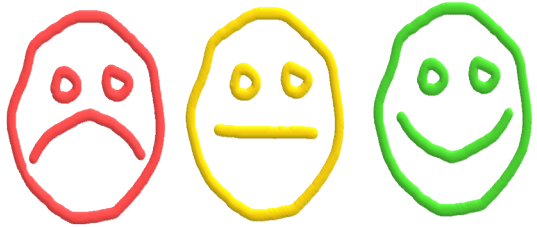
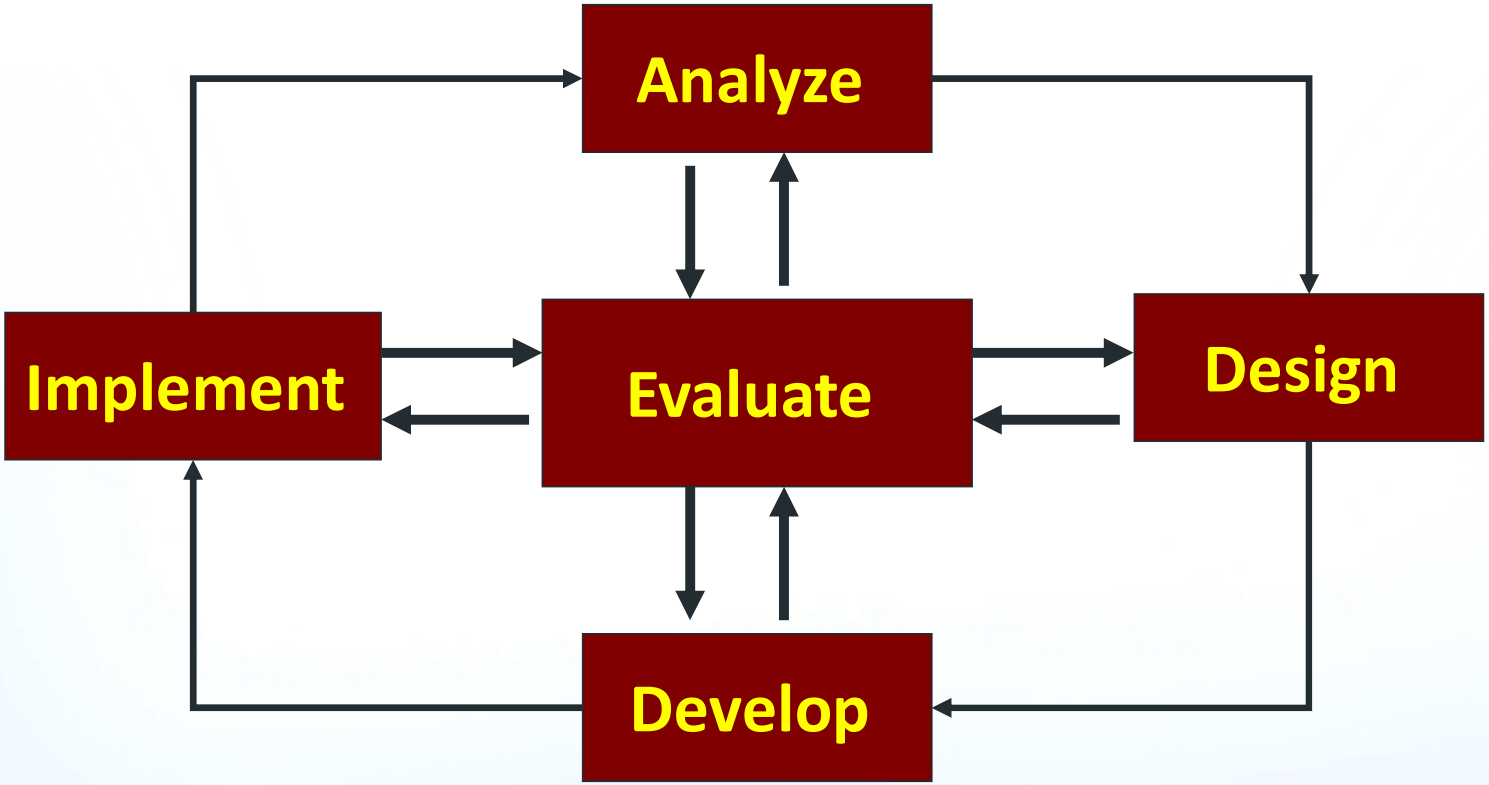
AR & VR
Interaction
Feedback
Support

How to decide?

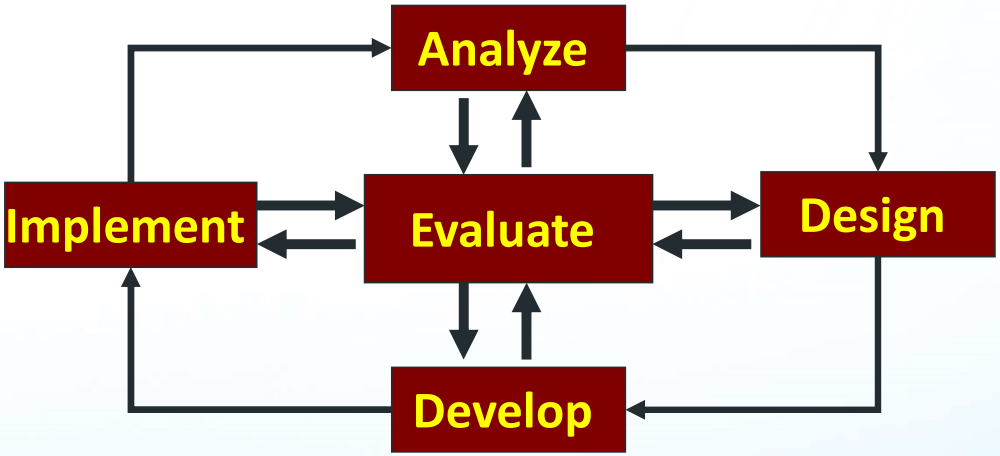


e-Learning System Design



ADDIE Model

Which phase is the most important one?



E-Learning System Design

Analyze → Design → Develop → Implement → Evaluate

- Review of literature and similar courses
- Context & culture analysis
- Learner and instructor analysis
- Educational needs analysis
- Regulations
- IT infrastructure analysis
- …

Some key questions in analysis phase

☞ Who is in charge?

- Who is going to support the project?
- Who is the final authority?

If your project depends on X's approval, then you need to know what X wants before you spend a lot of time developing the e-learning system.

Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

☞ **What are the objectives and how will this e-learning help you meet them?**

- What do you want to do?
- Will this system help you do it?

Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

- **What do you expect teachers and students to do that's different?**
  - Do they have enough competencies?
  - Do they need special support?

Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

☞ **When is the e-learning system needed?**

- How much time do you **need**?
- How much time do you **have**?

Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

☞ **What do you know about the learner?**

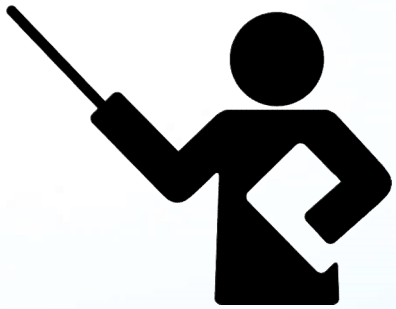
- How e-learning would help them?
- What are their expectations?

Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

☞ **What do you know about the instructors?**

- What do they think of e-learning?
- What are their expectations?
- Do they need special training?



Some key questions in analysis phase

Analyze — Design — Develop — Implement — Evaluate

☞ **What do you know about the content?**

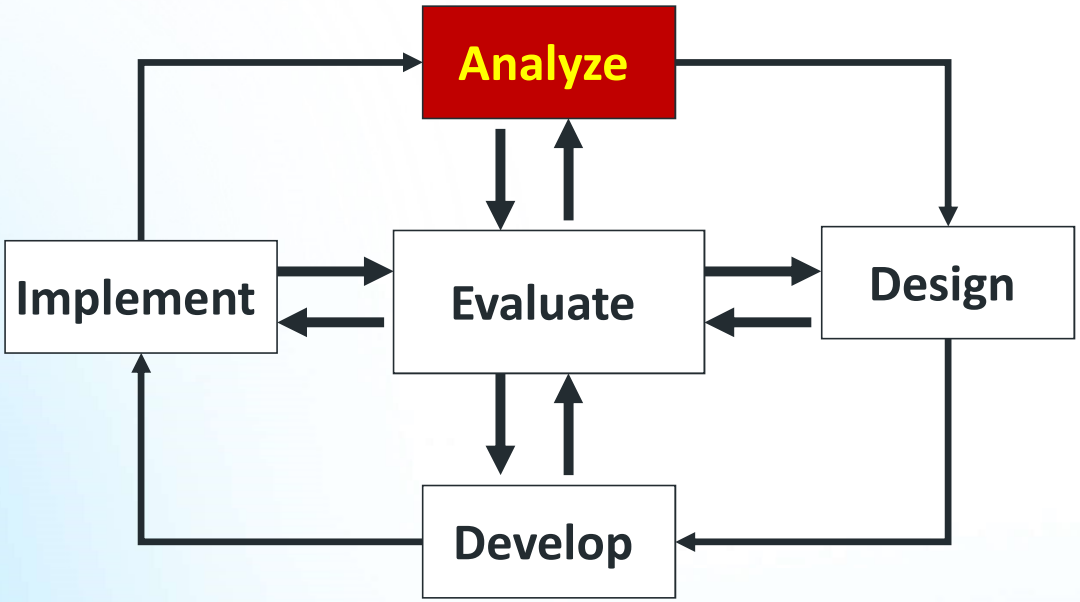
- Which types of e-content do you need?
- What are the needed facilities?

Some key questions in analysis phase

☞ **What are some of the technology issues?**

- Do the users have access to computers and internet?
- How should you select your LMS?
- How much multimedia can your network handle?

e-Learning System Design



Comprehensive system analysis

Clear decisions for other phases

ADDIE Model

e-Learning System Design

Analyze → Design → Develop → Implement → Evaluate

- Identifying goals
- Providing LMS & other facilities
- Developing e-contents
- Determining e-teaching strategies
- Students and instructors' support systems
- Developing regulations
- …

e-Learning System Design

Analyze — Design — Develop — **Implement** — Evaluate

- Unexpected issues
- Action plan check lists
- …

e-Learning System Design

Analyze — Design — Develop — Implement — Evaluate

- Learner evaluation
- Instructor evaluation
- Program evaluation
- LMS evaluation
- …

Conclusion

References & further reading

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Persepolis in Iran