

# Framework For Developing Instructional Modules

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## **Abstract**

*In the contemporary educational landscape, the development of instructional modules plays a pivotal role in enhancing the quality and effectiveness of teaching and learning. This study draws inspiration from UNESCO's guide, "Developing Instructional Modules for Teacher's Directions," to construct a comprehensive framework for the creation of instructional modules. By elucidating the key components and stages involved in module development, this framework aims to provide educators and instructional designers with a thorough understanding of the process.*

**Keywords:** *Instructional Module, Teaching, Learning,*

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## **I. Introduction**

The introduction serves as a crucial element, providing context, rationale, and identifying the target population for whom the module is designed. A well-crafted introduction sets the tone for effective learning experiences.

### **Overview**

The overview introduces the thematic essence of the module, outlining its purpose, structure, organization, and potential applications. This section acts as a roadmap for both educators and learners.

### **Instructions**

Clear and comprehensive instructions guide learners on how to navigate through the module. These instructions are essential for fostering self-directed learning, providing insights into the steps learners should take at each stage.

### **Pre-test**

The pre-test serves as a diagnostic tool, gauging the learner's existing knowledge and skills. This initial assessment sets the baseline for understanding the learner's starting point.

### **Objectives**

Explicitly stated instructional objectives define the expected learning outcomes in terms of behavioral changes. These objectives serve as a compass, guiding both educators and learners towards desired outcomes.

### **Learning Activities**

Learning activities, strategically planned and sequenced, offer a structured approach to skill and knowledge acquisition. These activities enable learners to develop behavior in a predetermined direction, promoting engagement and understanding.

### **Summary and Recap**

A well-crafted summary and recap section distills the key concepts covered in the module. It reinforces the main takeaways, helping learners consolidate their learning. This component serves as a mental checkpoint, preparing learners for subsequent modules or learning experiences.

### **Post-Assessment**

Similar to the pre-assessment, the post-assessment evaluates learners' understanding but after completing the instructional content. This assessment provides insights into the effectiveness of the module in

achieving its learning objectives. It allows educators to measure the impact of the instructional design on learners' knowledge acquisition.

## II. Development Of Modules

The development of instructional modules represents a significant innovation in educational technology, capturing the attention of educators globally. However, the successful creation of modules requires expertise and thorough practice. While various modules have been developed in countries like the USA and across Asia, their application in real classroom situations remains limited due to their often fragmentary nature and a lack of comprehensive syllabus coverage.

In India, the University Grants Commission (UGC) has taken a pioneering step by presenting the curriculum in modular form at the undergraduate and postgraduate levels in education since 1991. This initiative reflects an attempt to bridge the gap between module development and practical implementation in educational settings.

## III. Stages For Module Development

The development of instructional modules involves three distinct stages:

- 1. Planning Stage:** At the planning stage, the target group is identified, and the method of administration is determined. Additionally, the prerequisites of the target population are assessed, laying the groundwork for subsequent development phases.
- 2. Drafting Stage:** The drafting stage is where the objectives of the module are formulated. Learning experiences aligned with these objectives are carefully designed to cater to diverse learning styles. Modules are structured to allow learners to progress at their own pace, fostering a personalized and effective learning environment.
- 3. Revising Stage:** The revising stage is a critical phase where modifications are implemented. These modifications may include adjusting objectives, organizing content, correcting language, and assessing items. The revised modules undergo initial trials, providing valuable insights for further refinement.

Through these trials, the efficacy of the modules in terms of readability, difficulty level, and content organization is assessed. Adequacy of test items, learning activities, and sequences of instructions is carefully scrutinized, leading to iterative revisions. This iterative process ensures that the modules are finely tuned and ready for experimentation in diverse educational settings.

## IV. Conclusion

The development of instructional modules is a dynamic and multifaceted process that demands careful consideration of various components and stages. This comprehensive framework, inspired by UNESCO's guidelines, provides educators and instructional designers with a roadmap for creating impactful and effective modules. As education continues to evolve, the strategic development and implementation of instructional modules remain essential in fostering meaningful and engaging learning experiences. Through continued research and refinement, instructional modules can serve as powerful tools for shaping the future of education.

## References:

- [1] Andreas, J., Klein, D., & Levine, S. (2017). Modular Multitask Reinforcement Learning With Policy Sketches. Arxiv, Abs/1611.01796.
- [2] Charles, M. A. A. , & Sasikumar, N. (2018). Impact Of Concept Mapping And Modular Learning Techniques On Pupils' Achievement For The Selected Topics In Mathematics. American Journal Of Educational Research, 6(6), 649-657.
- [3] Kourosh Esfandiari, Mohamad Sharifi-Tehrani, Stephen Pratt, Levent Altinay, (2019), Understanding Entrepreneurial Intentions: A Developed Integrated Structural Model Approach, Journal Of Business Research, Volume 94,2019,Pages 172-182,
- [4] Cabuquin, J. C. (2022). Modular And Online Learning Satisfaction In Mathematics Amid Covid-19: Implications For New Normal Teaching Practices. American Journal Of Multidisciplinary Research And Innovation, 1(6), 30-40.
- [5] Hamora, L., Rabaya, M., Pentang, J., Pizaña, A., & Gamozo, M. J. (2022). Students'evaluation Of Faculty-Prepared Instructional Modules: Inferences For Instructional Materials Review And Revision. Journal Of Education, Management And Development Studies, 2(2), 20-29.
- [6] Dipay, Erica Mae D. (2023). Modular Distance Learning: A Blueprint To English Writing Proficiency. International Journal Of Multidisciplinary Educational Research And Innovation 1 (1):14-23.
- [7] Kilag, O. K., Miñoza, J., Comighud, E., Amontos, C., Damos, M., & Abendan, C. F. (2023). Empowering Teachers: Integrating Technology Into Livelihood Education For A Digital Future. Excellencia: International Multi-Disciplinary Journal Of Education (2994-9521), 1(1), 30-41.
- [8] Maksum, H., & Purwanto, W. (2022). The Development Of Electronic Teaching Module For Implementation Of Project-Based Learning During The Pandemic. International Journal Of Education In Mathematics, Science And Technology, 10(2), 293-307.