Web-based Resources for Imaging Physics and Technology Education

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Abstract:

The use of web-based resources can increase both the *effectiveness* and *efficiency* of imaging physics education for radiologists, technologists, medical physicists, and biomedical engineers. This applies to institutional academic programs and to lifelong continuing education activities. *Effectiveness* of educational activities is increased by the online availability of curriculum guides, outcome-oriented learning objectives, visuals and images for classroom activities, updated study materials, and extensive references and related resources. By using web-based materials for both teaching and related individual study the classroom becomes a highly effective learning experience. Web-based resources increase the *efficiency* of educational activities by reducing class preparation time for instructors, providing learners with high-quality notes and handouts, reducing the time and cost of simultaneous physical assembly, providing rapid and extensive access to research resources, providing tools for course management and administration, and reducing cost to institutions for both facilities and personnel. This course covers both the incorporation of available web-based resources into the participants' teaching and learning activities and the process of developing web-based educational materials.

Online Reference: http://www.sprawls.org/resources

Educational Objectives:

1. **Analyze educational activities with respect to effectivness and efficiency**
2. **Plan and design more effective and efficient educational activities**
3. **Identify and locate available web-based educational resources**
4. **Incorporate web-based resources in individual educational activities**
5. **Develop appropriate web-based resources for specific applications.**

The course material is located at:
http://www.sprawls.org/webresources/

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