Powerful Tools and Technologies for Learning

Code	Credit Hours
ITL-825	3

Course Description

Gaining insights into different learning theories is instrumental in crafting impactful instructional and assessment approaches. This course focuses on the ways in which knowledge and skills are used in practice provide learners with experience in real-world collaboration. The highlights key to understand what is social research, how is conducted with what techniques. Student will learn the integration of learning approaches with tangible implementations of powerful tools and technologies in educational settings. This course equips learners with the life-long learning skills. In this Course students will gain proficiency in a diverse array of potential tools applicable to both teaching and learning. Web tools offer inventive avenues for communication, content presentation, and collaborative endeavors, all in creatively transformative ways. Known for their user-friendly nature and often being cost-free, these web tools are easily learned and implemented. Notably, the course goes beyond introducing you to well-known Web tools within K-16 instruction. It focuses on empowering student to seamlessly integrate these technologies into classroom strategies, fostering interactive student activities that are both captivating and effective

Text Book:

1. Ahmad, W. M. A. W., Khamis, M. F., & Husein, A. (2024). Discovering Advanced Statistics Using SPSS for Windows. Penerbit USM.
2. Field, A. (2024). Discovering statistics using IBM SPSS Statistics. SAGE Publications Limited.
3. Sumitra, P., Sabitha, S., Sathiya, M., Sathya, G., Gayathiri, A., & Kumaresan, M. (2024). Towards the 21st century. Ubiquitous and Transparent Security: Challenges and Applications, 121.

Reference Book:

1. Wilson, A. M. (2024). Creative Activism Research, Pedagogy and Practice: Edited by Elspeth Tilley, Cambridge Scholars Publishing, 2022. 622 pages.
2. Haythornthwaite, C., & Andrews, R. (2011). E-learning Theory and Practice.
3. Quan, Z., & Zhang, Y. (2024). A Historical Review on Learning With Technology: From Computers to Smartphones. In Encyclopedia of Information Science and Technology, Sixth Edition (pp. 1-21). IGI Global.

Prerequisites

None

ASSESSMENT SYSTEM FOR THEORY

Quizzes	10%
Assignments	10%
Project	10%
Mid Terms	30%
ESE	40%

Teaching Plan

Week No	Topics	Learning Outcomes
1	Introduction	Course Outline, objectives, teaching plan, assessment method, concepts review
2-3	Communication	Introduction to communication, Types of communication and application of knowledge, Tools of communication (Tiny taps)
4-5	Collaboration	Introduction to communication and collaborative learning, Activities (related literature and research papers, the family tree project: Canva, Storm board: Collaboration and digital whiteboard tool. Digital story telling tools (Graphics and Visual Design: Canva (Allows you to create visually appealing graphics, posters, and presentations), ·Piktochart: Helps in creating infographics and visual stories.
6-7	Technology Tools for learning and classroom.	Technology Tools for Quizzes & Questionnaires, Technology Tools for Communication and Collaboration, Technology Tools for Design and Development, Technology Tools for Review, Assistive Technology Tools, Motion graphics software (Adobe After Effects) bending, Von Mises Theory, Energy Distortion
8	Online collaborative Learning	Theories, learning tools and attributes of collaborative learning
9	**MID TERM EXAM**	
10-12	Building Digital Capacity	Basic issues in measurement, ways of testing education measurement, assessment and evaluation, the classification of scaling, Basic structure of SPSS, Descrptive Statistics (Central tendencies in SPSS), Inferential Statistics (computer applications)
13	Adapting to change	TAM Model
14	Creativity	Unity (workshop)
15-16	Life-long learning	Animation and photoshop (Workshop)
17	Project presentations and Demos	
18	**End Semester Exams**	