

ADL557 Exploring the Learning Sciences

Level: 5

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

ADL557 Exploring the Learning Sciences provides students with state-of-the-art knowledge on the learning sciences in higher education. Given the rapid growth of studies and knowledge on the sciences on learning over the past decade, there has been calls to draw on such evidences of learning to inform the pedagogical practices in the higher education and workplace settings. To appreciate this motivation, this course explores the multi-disciplinary origins of the field, its evolution, and the influence of the field on knowledge, learning, and work. The course shows how the learning sciences can play an important role informing learning design, analysis, work teams in the higher education and workplace settings.

Topics:

- Evidence-based approach in the higher education
- Foundations of the learning sciences
- Knowledge organizations of novices and masters
- Learning and problem solving in work activities
- Expansive learning – cases from workplace research
- Adults as self-explaining, self-directed, and self-determined learners
- Distributed cognition nature of work and learning
- Blended, full online courses as learning environments
- Formal, non-formal, and informal learning spaces in workplaces and higher ed
- Innovative and knowledge creating work teams
- Learning sciences perspective on faculty development
- Methodological approach in design-based research

Textbooks:

: The Cambridge handbook of the learning sciences.(eText) Cambridge: Cambridge University Press
ISBN-13: 9781316120194

: International Handbook of the Learning Sciences. (eText) Routledge
ISBN-13: 9781317208358

Learning Outcome:

- Discuss the significance in the formation and evolution of the learning sciences
- Analyze the various perspectives and conceptions exemplary in the learning sciences as it pertains to adult and workplace learning
- Examine how the learning sciences add value to the systems of higher education or workplace settings
- Critique a published learning sciences study, including the learning issue, efficacy of the intervention, data analysis, and interpretation of findings
- Propose ways in which a learning unit drawn from an authentic setting can be redesigned using appropriate learning sciences theories
- Appraise specific learning design and approaches based on learning sciences theories

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	TUTOR-MARKED ASSIGNMENT 1	50
Overall Examinable Components	ECA	50
Total		100