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Navigating English Language Learning in the Digital Age: Insights from RMUTT Students

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Abstract

The research aimed to investigate the factors influencing English language learning in the digital age, conduct an exploratory factor analysis of these factors, and examine the causal relationship model of these factors on English language learning among students at Rajamangala University of Technology Thanyaburi (RMUTT). Using a sample of 423 RMUTT students enrolled in General English courses, selected through multi-stage random sampling, the study employed a questionnaire with a reliability coefficient of 0.988. Data analysis included frequency, percentage, mean, standard deviation, correlation, Exploratory Factor Analysis (EFA), and Partial Least Squares Structural Equation Modeling (PLS-SEM). The findings indicated that the overall factors influencing English language learning in the digital age were rated highly ($M = 4.28$, $SD = 0.66$), with lectures ($M = 4.32$, $SD = 0.70$), learning activities ($M = 4.32$, $SD = 0.72$), and evaluation and assessment ($M = 4.32$, $SD = 0.72$) being the most significant. The overall English language learning of RMUTT students was also high ($M = 4.05$, $SD = 0.78$), particularly in listening skills ($M = 4.23$, $SD = 0.73$). The Exploratory Factor Analysis using the Varimax method revealed that all 31 factors could be categorized into two main components: administration with five sub-components and learning management with 27 sub-components. Confirmatory Factor Analysis indicated a good model fit ($SRMR = 0.0615$, $dULS = 4.2616$, $dG = 2.8085$), with values for Dijkstra-Henseler's rho (ρ_A), Jöreskog's rho (ρ_C), Cronbach's alpha (α), Average Variance Extracted (AVE), and Discriminant Validity (HTMT) meeting the required criteria. The Structural Modeling Analysis showed that the factors influencing English language learning in the digital age had a statistically significant positive effect on the English language learning outcomes of RMUTT students ($p < .001$).

Keywords: Learning Management, English Language, English Language Learning, English Language Teaching