

STUDENTS' PERCEPTION OF THE MATH CLINIC IN THE STATISTICS SUBJECT AT CENTER FOR FOUNDATION STUDIES, IIUM.

Balqis Binti Hisham

International Islamic University Malaysia

balqish@iium.edu.my

Abstract: The Math Clinic at the Centre for Foundation Studies, IIUM, offers additional support for students in the Statistics subject. Understanding students' perceptions of this support service is important for improving its effectiveness. This study aims to evaluate students' perceptions of the Math Clinic's effectiveness, including the quality of tutoring, the learning environment, and the impact on their statistical understanding and academic achievement. A quantitative approach was used, with a survey administered to 100 students from various courses who attended the Math Clinic during Semester 3, session 2023/2024. Descriptive statistics, including mean scores and standard deviations, were used to analyse the data, and inferential statistics were employed to explore differences based on demographic variables using SPSS 28.0. The findings showed that students generally had positive perceptions of the Math Clinic, reporting high satisfaction with the tutors and the learning environment. The majority of students felt that the Math Clinic positively affected their understanding of Statistics and their academic performance. The study concludes that the Math Clinic is seen as a valuable resource for Statistics students.

Keywords: Students' Perception; Math Clinic; Statistics Subject; Academic Performance.

THE PERCEPTION OF STUDENTS TOWARD LEARNING SPANISH LANGUAGE AMONG UNIVERSITY STUDENTS

Haryantie Gopoit¹, Nur Amirah Nadiah Mustapa Kamal², Noorafini
Kassim³ & Florina Jumil⁴

Universiti Malaysia Sabah

haryantiebtgopoit@ums.edu.my

Abstracts: Being multilingual is a common skill in today's world, especially among young people. Having the ability to speak a foreign language such as Spanish can enhance graduates' employability, making them more appealing to potential employers and improving their job opportunities. Spanish stands out as one of the most spoken languages globally, making it a favored option for university students keen on learning a foreign language. The study examines students' views on learning Spanish at the Centre for the Promotion of Knowledge and Language, University Malaysia Sabah. To gather information, the researchers used an online questionnaire with three sections. Section A asked about the students' backgrounds, such as their age, gender, and previous language learning experiences. Section B focused on their attitudes toward learning Spanish, exploring their motivation, interest, and commitment. Section C delved into their perceptions, examining how they view the usefulness of Spanish in their future careers and their overall experience in learning the language. Fifty undergraduate students taking Spanish Level I during the first semester of the 2022/2023 session participated in the study. The questionnaire used a Likert scale from 1 to 5, with 1 indicating strong disagreement and 5 indicating strong agreement. The researchers analyzed the results using the Statistical Package for the Social Sciences (SPSS) 25.0. The findings revealed important insights into the students' perceptions, which can help to improve Spanish teaching methods. By understanding these perceptions, educators can develop strategies to foster more positive learning environment, thereby enhancing students' motivation and ultimately improving their achievement in learning Spanish.

Keywords: multilingual, perception, Spanish language, undergraduate student, motivation.

LANGUAGE LEARNING STRATEGIES USED BY UIS MATRICULATION STUDENTS

Mimie Syawalisa Salehudin¹, Nur Haziqa Nordin², Siti Norshariza
Ahmad Zaid³

¹*Universiti Islam Selangor,*

²*Universiti Kebangsaan Malaysia*

³*Universiti Kebangsaan Malaysia*

mimiesyawalisa@uis.edu.my

Abstract: As English is a global and international language, the need to acquire and master it seems a must for everyone. Most schools and even educational institutions encourage students to use English in their academic discourse as well as in their casual life. In order to learn language effectively, it requires a strategy called language learning strategies (LLS). LLS is defined as actions, attitudes, methods and strategies which are explicitly adopted by the learners consciously, to promote comprehension of targeted language learning. There are two types of strategies with three elements each: direct strategies (memory, cognitive and compensation), and indirect strategies (metacognitive, affective and social). Therefore, this paper aims to analyse the six LLS as well as to investigate the most LLS used by matriculation students in learning English. A qualitative research method was used to collect data from 44 matriculation students. The data were collected using a survey design which is questionnaires. The findings show that metacognitive strategy ranked the highest as LLS used by matriculation students in learning English, followed by affective, memory, compensation, cognitive and the lowest is social strategies. However, the strategies used by the learners may differ based on certain factors such as gender, races or proficiency level. The learners as well may adopt several strategies in acquiring the language.

Keywords: Language Learning Strategies; English language; matriculation students; Strategy Inventory for Language Learning; language learning

ENHANCING PRE-UNIVERSITY CURRICULA: MEETING GLOBAL DEMANDS IN HIGHER EDUCATION AND CAREER READINESS

Nik Zuraihan Nik Mat Kamil

Selangor Islamic University

nikzuraihan@uis.edu.my

Abstract: In today's global landscape, the role of pre-university education in preparing students for higher education and future careers has become increasingly pivotal. This paper explores the critical need for pre-university curricula to adapt and align with emerging global trends and demands across diverse fields. Emphasising the importance of relevance, this study examines how curriculum design can foster skills and competencies essential for success in higher education and in meeting the challenges of future career pathways. Key aspects such as integration of technology, fostering critical thinking and problem-solving abilities, and nurturing interdisciplinary perspectives are highlighted as integral to preparing students for a dynamic world. Drawing upon current literature and educational practices, this paper proposes strategies and recommendations for enhancing the curriculum's responsiveness to evolving global demands, thereby empowering pre-university students to thrive in their academic pursuits and contribute meaningfully to society and the global economy.

Keywords: Pre-university education; curriculum relevance; higher education; career readiness.

A REVIEW ON ENHANCING ACADEMIC ACHIEVEMENT THROUGH MACHINE LEARNING

Noor Fadzilah Ab Rahman

Universiti Islam Selangor

noorfadzilah@uis.edu.my

Abstract: Academic achievement is a critical indicator of educational success, with significant implications for individual and social development. This review aims to explore the integration of machine learning technology to enhance academic achievement. It provides a comprehensive analysis of various machine learning methodologies and their applications in educational contexts. By analyzing the recent studies, the review highlights how machine learning can identify at-risk students, personalize learning experiences, and optimize educational resources. The analysis of recent studies and practical implementations reveals that machine learning can significantly improve academic performance by offering targeted interventions and adaptive learning solutions. The review reveals that machine learning significantly improves student engagement, retention, and academic success, paving the way for personalized and data-driven educational environments, thereby enhancing academic achievement. The review also discusses the challenges and opportunities associated with the implementation of machine learning in education, suggesting pathways for future research and development in educational institutions.

Keywords: Machine learning; Academic achievement; Student performance; Academic success

Fostering Study Skills for the 21st Century in Higher Education.

Nujaidah Binti Nuwairi

Selangor Islamic University

nujaidah@uis.edu.my

Abstract: As we navigate the intricate realm of contemporary education, it is crucial to provide students with the right tools and methods to become successful students in the 21st century. In this continuously changing digital era, the capacity to study and learn efficiently becomes increasingly important for academic achievement and personal growth. By cultivating robust study skills, we enable students to adjust, create, and succeed in a world where knowledge is always progressing. Developing a strong study skill is crucial for academic success and personal growth, which will equip students to function effectively in the career world. Therefore, the ability to foster good study skills in higher education students encourages them to adapt well to new information, think critically, and apply knowledge aptly.

Keywords: study skills, learning skills, higher education.

**INSTILLING STUDENTS' ENGAGEMENT IN
IMPROVING A SUSTAINABLE PRE-UNIVERSITY
EDUCATION IN MATRICULATION CENTRE OF
ISLAMIC SELANGOR UNIVERSITY (MCISU)**

Nur 'Atiqah Jamilah Binti Abdullah

Universiti Islam Selangor

nuratiqahjamilah@uis.edu.my

Abstract: Instilling students' engagement in improving a more sustainable pre-university education comprises nurturing their interest, involvement, and active participation in initiatives that promote sustainability within educational settings. New strategies should be outlined in order to combat obsolete methods of teaching and learning that have been practiced for years. The old and existing systems can be seen as no longer giving the same impacts and predictable results to the new generation students, resulting in loss of interest in getting a proper education in universities. In this initial stage; small-scaled qualitative research will be conducted within MCISU students through interviews and questionnaires distribution in order to get a primary outlook of their opinions regarding the present education structures. This research will be conducted with the purpose of learning students' views on how outdated are both physical and online learning that still adapt the chalk and talk method. The study will also be used as a platform of understanding students' readiness or inclination towards a more active assignment in classrooms and the willingness to take up new responsibilities in creating a new learning culture. More proactive actions should be considered by academicians in order to instill students' engagement in learning with the aim of sustaining the relevance of education in pre-universities while simultaneously promoting the importance of knowledge in various fields of study.

Keywords: sustainability, engagement, chalk and talk, new learning culture,

ESCALATING STUDENTS' PERFORMANCE IN BIOLOGY SUBJECT THROUGH BIO- WONDERS FLIP

NurulHidayati Ruslai¹, Rositi Mashani Mohd Sani², Haliza
Hamzah³,
Nurul Azrina Abdul Aziz⁴

Universiti Islam Antarabangsa Malaysia (UIAM)

hidayati@iium.edu.my

Abstract: Digital flipbook is an innovation in 21st century teaching and learning that may replace the long wordy traditional method into fun, engaging, and effective learning experiences. Bio-Wonders flipbook offers a comprehensive explanation of the learning material in the form of an interactive flowchart, and simplified diagram enabling the students to master the important keyword and sequential steps easily and effectively. The infographic digital Biology flipbook is expected to increase the student's engagement, capture their attention and interest in Biology subjects as well as improve their performance in examinations. The objectives of this study are to determine the effectiveness of using the Bio-Wonders Flip integrated via Moodle (iTa'LeEm) among biological sciences students and to evaluate the impact of this digital flipbook on students' performance in test examination. This study focused on developing a flipbook module that consisted of 5 Biology chapters, followed by an evaluation of students' performance before (pre-test) and after accessing the flipbook (post-test). A survey is administered to assess the effectiveness and validation of the developed flipbook using the Likert scale. The statistical analysis conducted shows a significant improvement in students' performance, understanding and learning experience in Biology subjects. Increased the mean score of pre-test and post-test from 75.90% (A-) to 87.10% (A). Hence, the study recommends the use of digital flipbook in Biology subject as a learning material for biological sciences student in CFS IIUM, Gambang.

Keywords: Digital flipbook, Biology subject, digital literacy, learning experience

ANALYSIS AND DETERMINATION OF FACTORS ASSOCIATED WITH STUDENT PERFORMANCE BASED ON COMPOSITE ASSESSMENT SCORES

Suhaila Bahrom¹, Balqis Hisham²

International Islamic University Malaysia

suhaila_b@iium.edu.my

Abstract: Examining final scores among pre-university engineering students is crucial for understanding their academic performance and identifying factors contributing to success or challenge in their educational journey. These scores are pivotal indicators of students' grasp of fundamental engineering principles and readiness for higher education. This study examines the correlation between different course assessments and final exam scores in a Mathematics course for pre-university engineering students. A dataset comprising assessments such as quizzes, open-book tests, and tutorials was collected from 552 pre-university engineering students at the Centre for Foundation Studies, International Islamic University Malaysia, for the 2023/2024 cohort. Regression analysis was employed to develop predictive models, which were carried out using Python. The study revealed that all the quizzes, including open book test 2 and open book test 3, are significantly correlated with final examination scores with an adjusted R-squared of 0.467. This value indicates that 47% of the variation in final examination scores can be predicted by combining all quizzes and two open-book tests. This study examines the effectiveness of course assessments in predicting the final examination performance of students in pre-university engineering programs. Furthermore, it presents valuable recommendations for enhancing assessment strategies to support and foster student achievement more effectively.

Keywords: Regression analysis; Pre-University; Python; Mathematics

ANALYZING THE IMPACT OF ARABIYATUNA BOARD GAMES IN ENHANCING ARABIC VOCABULARIES: A CASE STUDY

Noor Hazleena Binti Mohd Nor Hazlee¹, Abdul Hadi Bin Abdul Rahim²,
Khairul Akbar Bin Khalib²

¹*Universiti Islam Selangor*

²*Universiti Islam Antarabangsa Malaysia*

³*Universiti Islam Antarabangsa Malaysia*

noorhazleena@uis.edu.my

Abstract: In the context of gamification, a board game is typically defined as a structured form of play, usually involving a predetermined set of rules, where players use physical or virtual game pieces to navigate a board or grid. This research investigates the educational impact of “Arabiyatuna” board games on a sample of 30 Selangor Islamic University’s Matric Centre students. While utilizing Microsoft Excel and Winstep for data analysis, the study explores how integrating board games into the curriculum that can enhance learning outcomes in memorizing vocabularies. The results indicate a positive effect on student engagement, comprehension, and retention of Arabic vocabulary that were introduced in the research. The findings suggest that board games are a valuable tool in educational settings, offering both interactive and effective learning experiences.

Keywords: Arabiyatuna, Board Game, Gamification. Learning, Winstep