RESEARCH ON THE RELATION BETWEEN ACADEMIC PERFORMANCE AND CHARACTERISTICS OF STUDENTS IN THE DEPARTMENT OF INDUSTRIAL DE

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ABSTRACT

BASED ON THE POLICY OF THE MINISTRY OF EDUCATION OF OUR GOVERNMENT THERE ARE THREE WAYS FOR HIGH SCHOOL STUDENTS TO ENTER UNIVERSITIES. THROUGH TRADITIONAL ENTRANCE EXAMINATION, THROUGH APPLICATION, AND THROUGH RECOMMENDATION. BECAUSE DIFFERENT DEPARTMENTS IN THE UNIVERSITIES MEAN DIFFERENT PROFESSIONS. AND MAY REQUIRE DIFFERENT CAPABILITIES AND APTITUDES, IT IS VERY IMPORTANT BUT ALSO VERY DIFFICULT FOR UNIVERSITIES TO EXAMINE AND TO SELECT RIGHT STUDENTS WITH APPROPRIATE CHARACTERISTICS. IN ORDER TO CONTINUALLY IMPROVE THE METHODOLOGY FOR SELECTING RIGHT STUDENTS FOR INDUSTRIAL DESIGN. IT IS CERTAINLY ESSENTIAL TO UNDERSTAND HOW ALREADY-IN STUDENTS MATCH WITH THIS PROFESSION. THEREFORE THIS RESEARCH INTENDED TO ANSWER THIS QUESTION BY ANALYZING THE ACADEMIC PERFORMANCE AND THE APTITUDE OF DIFFERENT GROUPS OF FRESHMAN IN THE DEPARTMENT OF INDUSTRIAL DESIGN OF DA-YEH UNIVERSITY. FIRST, THE REQUIRED CAPABILITIES AND CHARACTERISTICS FOR INDUSTRIAL DESIGN PROFESSION WERE SUMMARIZED THROUGH LITERATURE SURVEY. THE ITEMS WERE THEN USED FOR DESIGNING A SET OF QUESTIONNAIRE FOR STUDENTS' SELF-REVIEW. THREE TEACHERS OF "FUNDAMENTAL DESIGN" COURSE WERE ASKED TO EVALUATE STUDENTS' CAPABILITIES AND CHARACTERISTICS USING THE SAME SET OF QUESTIONNAIRE. IN ORDER TO UNDERSTAND THEIR APTITUDE, STUDENTS WERE ALSO ASKED TO DO THE HOLLAND APTITUDE TEST AND THREE KINDS OF CREATIVITY APTITUDE TEST. THE RESULTS WERE COMPARED AMONG GROUPS OF STUDENTS WHO ENTERED SCHOOL THROUGH THREE DIFFERENT WAYS, SCORES OF DESIGN-RELATED COURSES WERE ANALYZED TO SEE THEIR OFFICIAL ACADEMIC PERFORMANCE AS WELL. IN ADDITION TO THE ABOVE ANALYSES, THE CORRELATIONS BETWEEN THE FOUR AFOREMENTIONED ASPECTS WERE MADE TO SEE IF THERE EXISTS ANY RELATION BETWEEN THEM. THROUGH THE INVESTIGATION, THE RESULTS PROVIDE SOME INDICATIONS FOR IMPROVING THE METHODOLOGY FOR STUDENT SELECTING. IT ALSO SIGNIFIES A FIRST STEP FOR SYSTEMATICALLY SELECTING AND EDUCATING THE RIGHT STUDENTS FOR RIGHT PROFESSIONS.

Keywords: INDUSTRIAL DESIGN, DESIGN, EDUCATION, HOLLAND, CREATIVITY, APTITUDE, PERSONALITY, CHARACTERISTICS

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