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**Bachelor of Science Program in Integrated Design in**

**Emerging Architecture (International Program)**

**I.D.E.A. 4-year B.Sc. Program (Non-Professional Degree Program)**

 **CURRICULUM STRUCTURE (2019 Academic Year)**

 **A. Coursework a minimum of 141 credits**

 **B. Program structure**

 **1. General Education a minimum of 30 credits**

 - Language and Communication a minimum of 12 credits

 - Humanities and Social Sciences a minimum of 9 credits

 - Science and Mathematics a minimum of 6 credits

 - Learning through Activities a minimum of 3 credits

 **2. Field of Specialization a minimum of 105 credits**

 - Core Course a minimum of 6 credits

 - Major a minimum of 69 credits

 - Required Courses a minimum of 54 credits

 - Major Elective a minimum of 15 credits

 **-** Minor None

 **-** Free Electives a minimum of 6 credits

**C. Coursework**

 **1. General Education a minimum of 30 credits**

 **Language and Communication a minimum of 12 credits**

001101 Fundamental English 1 3(3-0-6)

001102 Fundamental English 2 3(3-0-6)

001201 Critical Reading and Effective Writing 3(3-0-6)

001202 English in Professional Contexts 3(3-0-6)

 **Humanities and Social Sciences a minimum of 9 credits**

 Can choose two course from the followings

 011269 Philosophy of Sufficiency Economy 3(3-0-6)

 011251 Logic 3(3-0-6)

154104 Environmental Conservation 3(3-0-6)

 154106 Disaster in Modern World 3(3-0-6)

 159100 Modern World in Everyday Life 3(3-0-6)

 176100 Law and Modern World 3(3-0-6)

 103271 Music Appreciation 3(3-0-6)

 109100 Man and Art 3(3-0-6)

 **Science and Mathematics a minimum of 6 credits**

 Can choose three course from the followings

 201110 Integrated Mathematical Sciences 3(2-2-5)

 201114 Environmental Science in Today’s World 3(3-0-6)

 201117 Mathematics and Science in Civilization 3(3-0-6)

 207110 Physics: The Science That Changed the World 3(3-0-6)

 **Learning through Activities a minimum of 3 credits**

801105 Learning Through Activities 1 2(0-6-2)

 801106 Learning Through Activities 2 1(0-3-1)

 **2. Field of Specialization a minimum of 105 credits**

 **Core Course a minimum of 6 credits**

 804111 Fundamental Design in Architecture Studio 1 5(1-8-6)

 804112 Fundamental Design in Architecture Studio 2 5(1-8-6)

 804211 Creative Design in Architecture Studio 1 5(1-8-6)

 804212 Creative Design in Architecture Studio 2 5(1-8-6)

 804311 Creative Design in Architecture Studio 3 5(1-8-6)

 804312 Creative Design in Architecture Studio 4 5(1-8-6)

 804412 Creative Design in Architecture Studio 5 6(1-10-7)

 **Major a minimum of 69 credits**

 For all major courses, a minimum of 36 credits must be taken from courses 300

 level or higher, within these credits at least 18 credits must be courses of 400 level

 or higher.

* Required Courses a minimum of 54 credits

 804102 Human Behavior and Built Environment 3(3-0-6)

 804121 History of Eastern Creative Arts and Architecture 3(3-0-6)

 804201 Design Communication and Presentation 3(2-2-5)

 804202 Theory in Digital Communication and Creative 3(2-2-5)

 Computer Aided Design

 804221 Perception of Architectural Space 3(3-0-6)

 804222 History of Western Creative Arts and Architecture 3(3-0-6)

 804231 Materials and Construction 1 3(3-0-6)

 804232 Materials and Construction 2 3(1-4-4)

 804233 Basic Building and Energy Systems 3(1-4-4)

 804234 Architectural Structure 1 3(1-4-4)

 804321 Theory and Philosophy of Postmodern Arts 3(3-0-6)

 and Architecture

 804322 Theory and Philosophy of Contemporary Thai Arts 3(3-0-6)

 and Architecture

 804331 Applied Building and Energy System 3(1-4-4)

 804332 Architectural Structure 2 3(2-2-5)

 804333 Advanced Architectural Structure 3(1-4-4)

 804371 Sustainable Urban Architecture and Communities 3(3-0-6)

 804372 Integrated Fields and Systems in Architecture 3(3-0-6)

 and Urbanism

 804483 Principle in Architecture Professional Practice 3(3-0-6)

 - Major Elective a minimum of 15 credits

 Option 1

 804411 Selected Topics in Architectural Design Studio 3(0-6-3)

 804481 Architecture Internship 3(0-6-3)

Option 2

 804482 Cooperative Education 6 credits

 **Both options can choose three courses from the followings**

 804401 Seminar in Evolution of New Contemporary Designs 3(1-4-4)

 804402 Hidden Thought in Architectural Design 3(3-0-6)

 804403 History and Theory of Asian Architecture and Cities 3(3-0-6)

 804404 Real Estate Economics and Facilities Management 3(2-2-5)

 **Minor None**

 **Free Electives a minimum of 6 credits**