



**UNHI-GAP India 2019 International Conference**  
**Possibilities and Probabilities**  
**in Higher Education of Asia**

# **PROCEEDING BOOK**

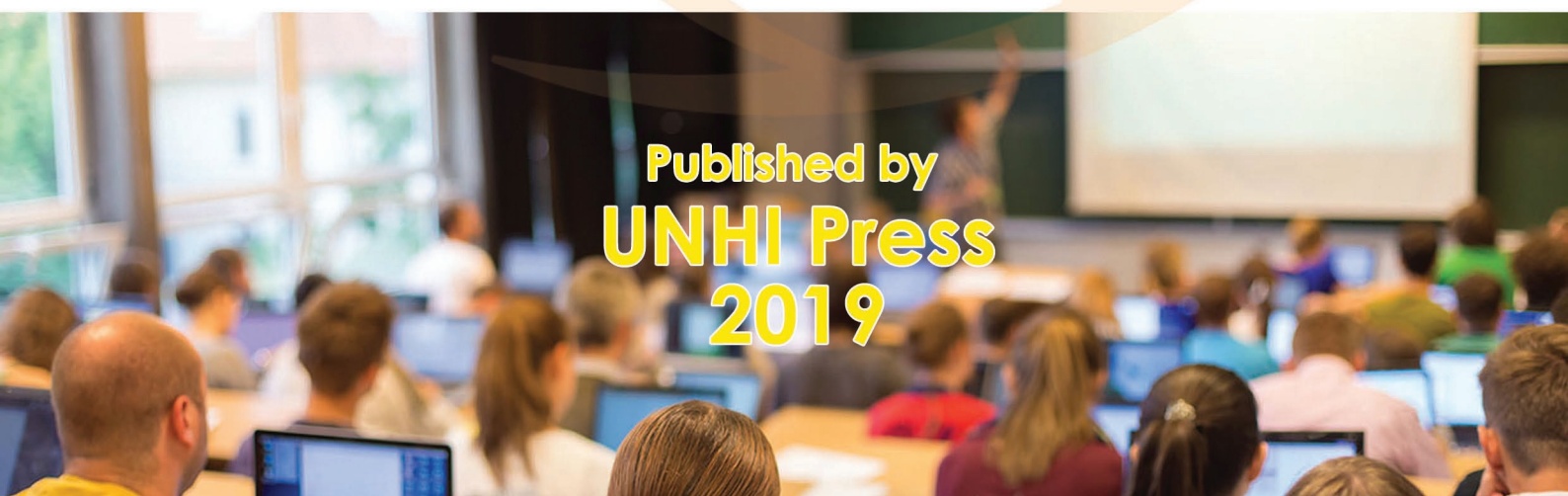
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*Unhi - GAP India 2019  
International Conference  
“Possibilities and Probabilities” in Higher  
Education of Asia*



*Unhi Denpasar*



ज्ञानः अध्वयनः परम्परा

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## CHAIRMAN'S PREFACE

*Om swastyastu,*

*Welcome to Universitas Hindu Indonesia*

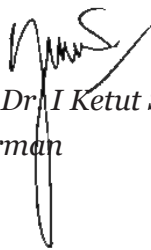
*This gives me an immense pleasure to learn that Universitas Hindu Indonesia (UNHI), Denpasar, Bali is organizing an international conference on "Possibilities and Probabilities in Higher Education of Asia". With the academic involvement and support of Grand Academic Portal (GAP) India, this conference in Bali would open new vista of cooperation between India and Southeast Asia with the common issues in higher education.*

*There are more than 50 papers will be presented on the conference which held on May 3, 2019 hosted by Hindu University of Indonesia. The greatest academic issues that will be discussed in this forum are possibilities and probabilities in higher education of Asia. Through this seminar, we enriched and expanded the accessible information on the latest research and sciences, and for sure the enhancement of academic linkage in Asia.*

*We sincerely hope that this seminar could be an academic discussion for scholars from various fields of interest, and get the noble goal. And I would like to thanks especially to GAP India for the cooperation and to all participant for their kind participation.*

*Om santih, santih, santih, Om*

*Denpasar, May 2019*



*Prof. Dr. I Ketut Suda, M.Si.  
Chairman*

## Message from the Director of Grand Academic Portal, India

*Namaskar.*

*Greetings from India. We, at Grand academic Portal, are very grateful to the UniversitasHinduIndonesia (UNHI), Denpasar-Bali, for organizing the joint international conference on 'Possibilities and Probabilities in Higher education of Asia'.*

*Grand academic Portal is an NGO to provide a supplementary and complementary element to the existing formal higher education system in India. The founders have collectively envisioned a platform to provide an innovative, free, equal, equitable, collaborative, sustainable, and all-inclusive teaching-learning-pedagogy environment to all the stakeholders of the higher education in India.*

*We strongly believe that this conference will help us to reach out to much like-minded academia and we will be able to share our vision and mission of the borderless education with all.*

*Prof. Dr. Gurudutta P. Japee  
Director, Grand Academic Portal (GAP) India*

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## CHALLENGES OF DESIGN EDUCATION IN THE INDUSTRIAL REVOLUTION 4.0 ERA

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**Abstract.** The progress of information and communication technology in the era of industrial revolution 4.0 has progressed very rapidly. The impact of this progress has brought changes in all areas of life. The changes experienced in the education sector are also very significant. The emergence of various sites that offer convenience in education is also not small. Education has entered the e-learning era based on information and communication technology. In addition, the emergence of various applications that facilitate learning is also not small. This provides a new challenge, especially in the scientific field of design. The emergence of various applications in the field of design has made it easy for the creation of works, but other content emerged, a community that claimed to be a designer who had clearly not met the criteria of the designer. This condition is a challenge for design education in order to have special characteristics that distinguish design higher education from design education. This study uses observational methods in the media and literature studies that have relevance to education in general and design education in particular. The purpose of this study was to provide information to all parties about design education and the challenges of design education in the era of industrial revolution 4.0. The results obtained are the need for renewal and improvement of both the curriculum and human resources in the field of design education to be able to face the progress of the time so that design as a work of creativity and thought will later be accepted by the community both locally, nationally and globally.

**Keywords:** Industrial Revolution 4.0, Education, Design Education, Design Education Challenges.

### **Background**

The progress of information and communication technology in the era of industrial revolution 4.0 has been very rapid. The impact of this progress has brought changes in all areas of life. Historically, humans have experienced 4 (four) times the industrial revolution. The industrial revolution 1.0 began in 1784 with advances in the use of machinery that replaced animal and human labor. The engine used is a steam engine invented by James Watt. The impact of the discovery of this steam engine was that industrialization developed rapidly. Production of human needs can be produced more easily and mass production. The industrial 2.0 revolution began around the year 1870 marked by the use and production of iron and steel on a large



scale, the widespread use of machinery in manufacturing, greatly increasing the use of steam, the widely used telegraph machine, the use of petroleum and the early periods of electricity use (electrification) (Sodeq, 2017). The industrial revolution 3.0 began around 1969 marked by the use of information technology and automation machines. Industrial revolution 3.0 that makes space and time closer to the emergence of various technological products. Industrial Revolution 4.0 encourages automation systems in all activities. Internet technology is increasingly massive which is able to connect people around the world and become the basis for trade transactions that can be connected virtually. The wave of digitalization creates a suitable environment for the industrial revolution 4.0 (Sanawiri & Iqbal, 2018:184).

The changes experienced in the education sector are also very significant. The emergence of various sites that offer convenience in education is also not small. Education has entered the e-learning era based on information and communication technology. One form of learning based on information and communication technology is MOOC (Massive Open Online Course). MOOC is a learning system in the form of online courses on a large scale and open with the aim to allow unlimited participation and can be accessed through the web. In addition to providing traditional text materials such as videos, reading and discussion of problems, MOOCs also provides an interactive user forum that helps in building communities for students, lecturers, and teaching assistants. MOOC is the latest development in terms of distance education (e-learning) (Anonim, 2013).

In addition, the emergence of various applications that facilitate learning is also not small. These applications make it easy for humans in designing and learning. One example that can be disclosed here is Adobe Photoshop, Adobe Illustrator and so on. This provides a new challenge in design, especially in the scientific field of design. The emergence of various applications in the field of design has made it easy for the creation of works, but on the other hand people appear to claim themselves as designers who have clearly not met the criteria of the designer. This condition is a challenge for design education in order to have special characteristics that distinguish design higher education from design education.

### **Research methodology**

This study uses qualitative methodology using the observation method. Observation method is a method of collecting data that bases on the facts by means of direct observation in the field and texts related to the problem (Hasanah, 2017). In this study, textbooks relating to general and design education are specifically used. The purpose of this study is to provide an overview of the social phenomena that occur and provide solutions to problems.

### **Discussion**

Before discussing design education, it must be known about the definition of the design itself. Design is the result of the process of designing an object that is carried out through certain stages and through consideration involving various parameters attached to the object of the design towards the giving of a form or form that meets the rules and values that apply at a certain time period (Widagdo, 2005:152). The scope of design as a science is specific to matters relating to design ranging from ideas, techniques to their forms (Setiawan, 2018: 6). In the design process, a designer certainly has stages. According to the architects who are members of the RIBA (Royal Institute of British Architect) in the guidebook he made said that the design process can be divided into 4 (four) namely assimilation, general

study, development, and communication (Lawson, 2015 : 36 ) . Assimilation is the stage of accumulation and regulation of general information and information specifically related to the problem being handled. General studies are characteristic investigative possible problems and solutions or solution tools. Development is a stage of development and modification of one or more tentative solutions isolated during stage 2. Communication is the stage of communicating one or more solutions to people inside or outside the design team.

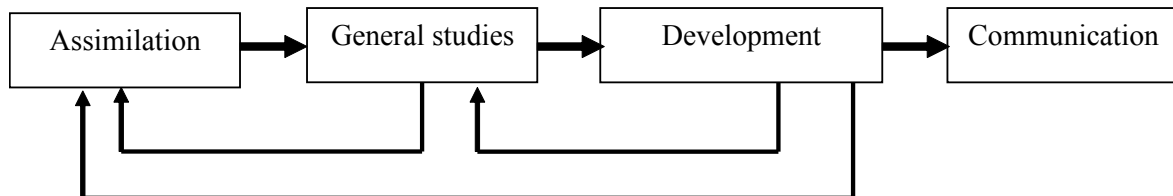


Figure 1. Stages of the Design Process According to RIBA (source: Lawson, 2015: 36)

These four stages do not have to be sequential even though logically the overall design development will run from stage 1 to stage 4. Interpretation of this stage is that a designer is expected to have the ability to have a broad view in seeing problems that occur in society. A designer is expected to not only have technical abilities but also have non-technical capabilities, namely analytical and critical thinking about the problems that occur.

Visual Communication Design as one of the field of scientific design which is an art form of conveying messages using visual language delivered through the media in the form of design that aims to inform, influence, and change the behavior of the target who sees it according to the desired goal (Setiawan, 2018:9). According to Agus Sachari, visual communication design is a profession that examines and learns with various approaches both matters relating to communication, media, images, signs and values. From the scientific aspect, the visual communication design also examines matters relating to communication and messaging, printing technology, the use of multimedia technology, and persuasion techniques in society (Sachari, 2005:9). The scope of visual communication design includes logos, advertisements, posters, book covers, comics, animation, multimedia design, typography, promotional media, caricatures, and design of environmental markers. While Widagdo revealed that the visual communication design in the modern sense is a design that results from rationality. It is based on knowledge, rational, pragmatic. The essence of the visual communication design is always dynamic, attractive, and changing (Setiawan, 2018:9). In the design process, visual communication design uses seven stages in working on a design work described below.



Figure 2. Seven steps in design (source: Ambrose & Harris, 2010: 12 )

The stages in the picture above can be also used by other design scholars such as interior design, product design, and fashion design. The first stage (define) is the stage to get a clear picture of the problem. At this stage, the designer looks for information related both verbally and in writing to the problem. The purpose is specifically to understand the problem and meet

the design criteria that will be made based on the interpretation of the designer. Information obtained is the key to the success of the design made. The second stage (research background) is the stage of conducting qualitative and quantitative research using various approaches. The approaches taken can be structural, semiotic, historical, cultural, aesthetic, social, and multidisciplinary approaches. The choice of approach to be used depends on the designer. The purpose of the research is to get as much information as possible about the problem to get a solution to the problem. The third stage (ideate) is the stage of making various alternatives in solving problems based on the results of research that has been done. The steps taken are brainstorming, sketching, adapting the designs that have been made and conducting trials, carrying out top-down and bottom-up analytical approaches (Ambrose & Harris, 2010:20). The purpose of ideate is to test the level of deficiencies and misunderstandings that occurred at the previous stage and get clarification on aspects that are not clear. The fourth stage is making a prototype. The prototype is used to carry out technical feasibility tests and functions as a design. In addition, prototypes can also be used to test visual aspects by presenting products as they are. The purpose of making a prototype is to test certain aspects of the design solution made so that these aspects can be evaluated effectively. The prototype can also be used to convey thought ideas about the structure of the product to be made. The fifth stage is the selection of various alternatives that have been made prototypes. This selection is important to do as one of the solutions proposed for problem solving and design development. Criteria in decision making in the selection of a plan are adjusted to the objectives and fulfillment of needs and objectives in solving problems. The design that meets the criteria is usually the closest to the problem and becomes an important part of the solution to the problem. For example the selection of designs that are adjusted to the level of market needs based on age segmentation. This is important considering that each market has a different segmentation and must be adapted to the design. In addition, the budget needed in the design is also taken into consideration during the selection process. Effectiveness and efficiency in the process of selecting a product design so that further developments can be carried out. The sixth stage is implementing the final product that has been carried out at the election stage. Implementation of the final product is the most important part of a design process. The implementation of this final product can certainly be expected to fulfill the existing problem solving and can meet the tastes and expectations of the market. Usually the design team makes project management during this stage, to ensure the final design and maintain the project within the budget and time. During the implementation process, an inspection is needed to ensure the accuracy of the design made and test the functionality and visual appearance of the product. This stage ends when the product has arrived at the client. The last stage is the learning process from the design produced. The learning process is done by asking for feedback from the user about the product that is produced and seeing the effect. This is done to find out the response from the user to the resulting design. Various shortcomings that emerged from the results of the design becomes an important point to be identified and then used as a reference in the development of product ideas further.

The problem that arises is the lack of public knowledge about the field of design. The community still has different views about the field of design. In Indonesia there are two classic views on this matter, namely: 1) the assessment that design is a branch of scientific praxis art and 2) design grows into a new tree even though the seeds are the same (Sachari, 2005: 30). The reality is that the design field has a difference with the arts. This difference

can be seen in the table below.

Table 1. Differences in design and art (source: Purwito, 2014)

Design	Art
Have goals for designing work not to find something new but to communicate something that already exists for a purpose.	The purpose is to form a strong emotional bond between the artist and their audience.
Interpreted design communicates messages and motivates.	The art of connecting people in different ways because they are interpreted differently.
Design has an element of taste but good bad design is a matter of opinion.	Art is judged by opinions and opinions governed by taste.
The designer has the skills taught and learned.	Artists have natural abilities.
A good design where the message delivered is interpreted with each other.	Art is better if the message delivered is different from one another.

Another problem is the increasing number of design universities in Indonesia. This increase in numbers did not provide significant progress for the profession and the scientific world, especially the visual communication design. One reason is the curriculum and teaching programs that are not in accordance with the need to produce quality designers. As a result there is a mismatch between industry needs and those provided by higher education. To deal with these problems, it is necessary to look more comprehensively at the issue of the scope of higher education and the design profession, especially the visual communication design so that it can provide a more real picture and result in a solution. The need for renewal and improvement of both curriculum and human resources in the field of design education is expected to be able to deal with the progress of the time so that design as a work of creativity and thought will be accepted by the community both locally, nationally and globally.

## **Conclusion**

The progress of information and communication technology in the era of industrial revolution 4.0 has been very rapid. The impact of this progress has brought changes in all areas of life. The changes experienced in the education sector are also very significant. The emergence of various sites that offer convenience in education is also not small. Education has entered the e-learning era based on information and communication technology. One form of learning based on information and communication technology is MOOC (Massive Open Online Course ). In addition, the emergence of various applications that facilitate learning is also not small. These applications make it easy for humans in designing and learning. One example that can be disclosed here is Adobe Photoshop, Adobe Illustrator and so on. This provides a new challenge in design, especially in the scientific field of design.

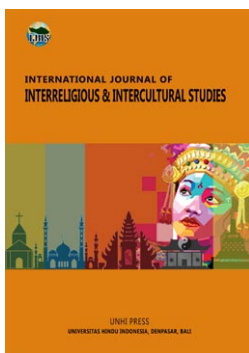
Design is the result of the process of designing an object that is carried out through certain stages and through considerations involving various parameters attached to the object of the design towards the giving of the form or form that meets the rules and values that apply at a certain time period. The problem that arises is the lack of public knowledge about the field of

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## INVITATION TO SUBMIT

### International Journal of Interreligious & Intercultural Studies (IJIIS)

*The International Journal of Interreligious & Intercultural Studies (IJIIS) is a world-wide, peer-reviewed publication for students, academics, scientists, researchers and observers on topics surrounding religion, culture and all their interaction with social, political and economic realities, globalization, industry and other phenomena that significantly affect human lives in various parts of the world.*

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## GRAND ACADEMIC PORTAL



*Grand Academic Portal (Gyan- Adhyayan- Parampara) is an initiative started by Dr. Gurudutta P. Japee and Dr. Preeti Oza to provide a supplementary and complementary element to the existing formal higher education system in India. The founders have collectively envisioned a platform to provide an innovative, free, equal, equitable, collaborative, sustainable, and all-inclusive teaching-learning-pedagogy environment to all the stakeholders of the higher education in India. GAP has its presence in more than five states of India growing its popularity very fast in foreign countries also. Grand Academic Portal (GAP) is a network group functioning in the field of Higher education in India. It is a platform, having more than one thousand direct and indirect stakeholders who are the professors, faculty members, researchers, industry patrons, lawyers and other highly esteemed professionals from India and abroad. GAP is operational in many areas of higher education like research, consultancy, publication of books and journals, project management, resource mobilization, faculty development and training and mentoring. There are many sub-bodies under the umbrella of GAP like ISAC (International Society for Applied Commerce) which are catering to these individual verticals.*

### OUR VISION:

*GAP is committed to providing a transformative impact on the current Higher Education system in India and abroad through continual innovation in academics.*

### OUR MISSION:

- To create a holistic and transformative platform for the teaching community and explore their academic pursuits.*
- To cultivate a strong and united academic fraternity and make a pool of world-class talent.*
- To instill, attract and retain diverse fraternity who can create a collaborative environment open to free exchange of ideas, research, entrepreneurship in their full potential*
- To make a positive value addition to the society – regionally, nationally and globally by engaging partners outside the limiting boundaries of the campus*

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