Proceeding of
INTERNATIONAL BUSINESS ECONOMIC TOURISM SCIENCES TECHNOLOGY
HUMANITIES SOCIAL SCIENCES AND EDUCATION RESEARCH CONFERENCE

Berlin, Germany
23 – 25 October, 2017

THE 2017 ICBTS

Edited by  Chayanan Kerdpitak, CK Research, Thailand
          Kai Heuer, Wismar University, Germany
          Ebrahim Soltani, Hamdanbin Smart University, UAE
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Conference Proceedings

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Conference Three Themes

The International Business Tourism and Applied Sciences Research Conference
The International Education Social Sciences and Humanities Research Conference

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By Dr. Chayanan Kerdpitak & Professor Dr. Kai Heue & Professor Dr. Ebrahim Soltani, ICBTS Institute Conference Center & IJBTS International Journal of Business Tourism and Applied Sciences

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Plum Condo Park Rangsit, 91/194 moo4, Phaholyothin Road, Klongnum Klongluang Pathumtani 12120, Thailand
INTRODUCTION

We would like to welcome our colleagues to the International Business Tourism Transport Technology Social Sciences Humanities Education Research Conference. It is the seven series in 2016 of Conference on Business Tourism and Apply Sciences was held in Amsterdam. As always many members of the ICBTS 2016 community look forward to meeting, sharing and exchanging their research ideas and results in both a formal and informal setting which the conference provides. Likewise, the concept of alternating the international conference every one month on April to November between Europe and the rest of the world is now well established. This year’s event in London (UK) Paris (France) Munich (Germany) Amsterdam (Netherlands) Boston (USA) Toronto (Canada) London (United Kingdom) Zurich (Switzerland) Berlin (Germany) Tokyo (Japan) and another continues with the cultural following the very successful and productive event held in London-Zurich in August 2016 in the field of various types for international academic research conference on Business Economics Social Sciences Humanities Education and Apply Sciences. As usual The ICBTS 2016 brings together leading academics, researchers and practitioners to exchange ideas, views and the latest research in the field of Business Tourism and Apply Sciences.

The theme of this event The 2016 ICBTS International Business Tourism Social Sciences Humanities and Education Research Conference is “Opportunities and Development of Global Business Economics Social Sciences Humanities and Education” It is also represents an emerging and highly challenging area of research and practice for both academics and practitioners a like, The current industrial context is characterized by increasing global competition, decreasing product life cycles, Global Business, Tourism Development, Social Sciences Humanities Education Apply Sciences and Technology collaborative networked organizations, higher levels of uncertainties and, above all, and customers. In our view holding this event in Tokyo represents a timely opportunity for academics and researchers to explore pertinent issues surrounding Business Economics Tourism Social Sciences Humanities Education Sciences and Technology.

Potential authors were invited to submit an abstract to the International Conference Session Chairs. All abstracts were reviewed by two experts from the International review committee and final papers were further reviewed by this volume with 30 contributing authors coming from 18 countries. This book of proceedings has been organized according to following categories:

- Business
- Management
- Marketing
- Accounting
- Financial
- Banking
- Economic
- Education
- Marketing
- Logistics Management
- Social Sciences
- Supply Chain management
- Industrial Management
- Information Technology
- Sciences Technology
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- Tourism Strategic
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Philipp-Müller-Str. 14
23966 Wismar
Haus 19, Raum 113
phone: +49 (3841) 753 - 7578

**Conference Coordinator &  
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CK Research Consultant
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Tel: +66 087 0287 287
Email: icbts@ictttconference.com
Email: conferenceteam@icbtsconference.com

**Proceeding Editors**
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Lincoln University, New Zealand
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Professor Dr. Ebrahim Soltani

Prof. Dr. Ebrahim Soltani is a Professor of Business School at University of Kent Canterbury in England and he is Department Chair - Quality & Operations Management at Hamdan Bin Mohammed Smart University Dubai of United Arab Emirate. He was appointed associate professor in business management, total quality management, and operation management in 1989 at the University of Kent, he continued his research in the field of operation management, business management. He has published over 50 papers and reports in such journals as International Journal of Technology and Production Research. He supervised a considerable number of PhD theses and is a consultant on industrial and production industry in England and United Arab Emirate.

Professor Dr. Kai Heuer

Prof. Dr. Kai Heuer is full professor for business administration at the Business Faculty of Wismar University in Germany. Before, he served as a full professor at the Environmental Campus of Trier University of Applied Sciences. He studied business administration in Germany and the U.S.A. and holds an MBA and a doctoral degree. He has management experience from leading positions in different companies and as business consultant. His research areas are management accounting, organizational development, and international management where he has published numerous papers, reports and textbooks. He is the head of Master Program in Business at Wismar University and a member of the Schmalenbach-Society for Business Economics, Cologne; managing director of the Institute of Health-, Senior- and Social Management; and a former member of the board of the Centre for Aviation Law and Management.
Dr. Tariq Khan

Dr Tariq Khan is a Lecturer and Director of Postgraduate Programmes of Business School in Brunel University, Uxbridge, London, United Kingdom. He received his BEng in Aerospace Engineering from Kingston University, his MSc in Manufacturing Technology from University of Warwick, and his PhD in Intelligent Education Systems from University of Salford. He subsequently worked as a research associate in Heriot-Watt University Edinburgh and as a senior lecturer at London Metropolitan University. He has specialist teaching in Business Process Modelling, Web Programming, Software Engineering, Classical Logic, Human Computer Studies. He has Book and published over 20 papers and reports in such journals as Information Systems Evaluation and Integration (ISEing). He supervised a considerable number of PhD theses and is a consultant on business and supply chain and engineering industry in England and United Kingdom.

Dr. Chayanan Kerdpitak

Dr Chayanan Kerdpitak is a Lecturer and management committee of Doctor of Business Administration Programmes of College Management Innovation in Valaya Alongkorn Rajabhat University in Thailand and a management committee of CK Research Consultant in Bangkok. I was a Lecturer of Principle Marketing, Sales Management, Consumer Behavior, and Marketing Research at The Suan Dusit University in Thailand. She received a Ph.D. in the field of Business Logistics within Industrial at Ramkhamhaeng University, Thailand. She has published over 20 proceeding paper and some reports in such journals as International Journal Business and Economics Research. She has been a consultant on Import Automobile Industry from Germany for International Marketing and Marketing Research. Chayanan graduated a B.B.A and M.B.A in Business Administration from The Ramkhamhaeng University, Bangkok, Thailand (Major in Marketing).
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<td>Paper 2 (37) THE NATURE AND USE OF</td>
<td>Dr. Sasiporn Phongphloenpis</td>
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<td>Paper 4 (39) THE STUDY OF TECHNOLOGY</td>
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<td>ASSISTED OFFICE ADMINISTRATION OF</td>
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<td>12:01-13:00</td>
<td><strong>Paper 5(144)</strong> Examining Motivation to Teach Levels of Pre-Service Teachers in Terms of Some Variables Ipek Som Onal</td>
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<td><strong>Paper 1(9)</strong> ACTING AS A TOOL TO EXPRESS POWER OF MEDIUM Dr. Kusuma Teppharak</td>
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<td><strong>Paper 2(10)</strong> EQUIPMENT DESIGN TO CREATE TIE-DYE FABRIC PATTERN Mr. Tanutpong Phriwanrat</td>
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<td><strong>Paper 3 (11)</strong> WICKERWORK PROCESS ANALYSIS APPLY FOR HOME DECORATION DESIGN: PRANEE HANDICRAFT SING BURI THAILAND Mr. Akapong Inkuer</td>
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<td><strong>Paper 4(12)</strong> SOUVENIRS DESIGN FROM ARTS AND CULTURAL Mr. Noppadon Sangwalpetch</td>
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<td><strong>Paper 5(13)</strong> THAI PERFORMING ARTS IN KING PRAJADHIPOK'S LAWS Asst. Prof. Manissa Vasinarom</td>
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<td><strong>Paper 6(116)</strong> ESL Basic Learners Personal Histories of Writing Ketkanda Jaturongkachoke and Supat Kookiatkokoon and Supamit Chanseawrassamee</td>
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<td><strong>Paper 7(150)</strong> Feasibility Study of Implementation of Coaching in Training of Nurses in Bahman hospital in Tehran (IRAN) Associate Prof. Dr. Mohammad Ghahramani and Fatemeh Hydari</td>
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<td><strong>Paper 2 (15)</strong> THE ART OF THE FABRIC PATTERN DESIGN BY STUDYING THE WOODEN CARVING ON GINGERBREAD IN VIMANMEK MANSION IN THAILAND Mrs. Chanoknart Mayusoh</td>
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<td><strong>Paper 3 (17)</strong> A WESTERN TREATMENT OF NONWESTERN NATIONAL IDENTITY: A CASE STUDY OF THE KING AND I Asst. Prof Dr. Chutima Maneewattana</td>
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<td><strong>Paper 4 (16)</strong> MAINTAINING SIGNIFICANCE OF REALIA IN TRANSLATED PLAY Dr. Nataporn Rattanachaiwong</td>
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<td><strong>Paper 5 (40)</strong> THE EXPOSURE AND SATISFACTION OF THE GRADUATE STUDENTS FOR THE CHANNAL OF THE INFORMATION AT SUANSUNANDHA RAJABHAT UNIVERSITY Miss Netdao Yooyong</td>
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<td><strong>Paper 1(1)</strong></td>
<td>SPIRITUAL TOURISM: THE NEW TOURIST DESTINATION FOR THAI TOURISM CASE STUDY IN “WAT TATON” CHAING-MAI THAILAND</td>
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<td>THE STUDY ON MEDIA EXPOSURE BEHAVIOR IN POLITICAL ISSUES OF UNIVERSITY STUDENTS</td>
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<td><strong>Paper 3(5)</strong></td>
<td>THE STUDY OF THE PARTICIPATION OF THE PRESIDENT OF STUDENT COUNCIL ELECTION, UNDERGRADUATE PROGRAM, SUAN SUNANDHA RAJABHAT UNIVERSITY</td>
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<td><strong>Paper 4(8)</strong></td>
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<td>Dr. Barameeboon Sangchan</td>
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<td><strong>Paper 5(18)</strong></td>
<td>FINANCIAL STABILITY IN SAMUT SONGKRAM FROM HOUSEHOLD SAVING POTENTIAL</td>
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<td>Dr. Krisada Sungkhamanee</td>
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<td>THE IMPACT OF “PIPELINE DIPLOMACY” ON CONFLICT RESOLUTION IN THE CAUCASUS-CASPIAN REGION: THE CASE OF AZERBAIJAN AND AFGHANISTAN</td>
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<td>Dogan Girgin</td>
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| Morning Break | 10.31 - 10.45 |

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<td>Miss Benjaporn Yaemjamuang</td>
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<td>Miss Wanvisa Saisanan Na Ayudhaya</td>
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<td>Dr. Rumpapak Luekveerawattana</td>
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<td><strong>Paper 5(111)</strong></td>
<td>MEDIATISATION OF URBAN PLANNING AND THE PUBLIC SPHERE TOWARDS ENABLING AND JUST PLANNING PROCESS CASE OF EGYPT</td>
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<td>Mennatullah Hendawy</td>
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<td><strong>Paper 2 (28)</strong> ORGANIZED ACTIVE LEARNING BY CREATIVE BASED LEARNING Mrs Chompunuj Limlertmonkol</td>
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<td><strong>Paper 3 (31)</strong> KNOWLEDGE MANAGEMENT FOR THE GUIDELINES OF INFORMATION RESOURCE ACQUISITION: A CASE OF ACADEMIC RESOURCE CENTER, SUAN SUNANDHA RAJABHAT UNIVERSITY Acting Sub Lt Nitima Kaewmanee</td>
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<td><strong>Paper 4 (19)</strong> VITAL FACTORS OF RECENTLY GRADUATES FOR APPLYING JOBS IN ASEAN LABOR MARKET Dr Natnaporn Aeknarajindawat</td>
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<td><strong>Paper 5 (25)</strong> KNOWLEDGE MANAGEMENT: GUIDE TO WRITE A RESEARCH PROPOSAL Miss Yanika Chuentako</td>
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<td><strong>Paper 6 (34)</strong> KNOWLEDGE ON FOLLOWING-UP AND RECORDING ACCORDING TO PERSONNEL DEVELOPMENT TRAINNING Miss Supassawee Morakul</td>
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<td><strong>Paper 7 (114)</strong> AGRICULTURAL TRADE UNDER WTO REGIME: OPPORTUNITIES AND CHALLENGES Dr MOHD ADIL</td>
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<td><strong>Paper 8 (115)</strong> RACE OF RELIGIONS AND THE RICE OF RADICALISM IN WEST PAPUA INDONESIA Umar Werfete and Suparto Iribaram</td>
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<td>Ayedh Dhawi Mohammed Almohanna, Saudi Arabia</td>
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<th>Paper 7 (133)</th>
<th>SOCIAL MEDIA AND ARABIC CODE-SWITCHING AMONGST ALGERIAN STUDENTS LIVING IN THE UK</th>
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<td>Linda Merzougui</td>
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### 24 October 17(T) - Session C

**24 October 17 (T) 09.30 – 10.30**

**Session C1**

**Paper 1 (48)** GERMAN LEADERSHIP IN EU FOREIGN POLICY AFTER EUROZONE CRISIS?
Merve Yavuz

**Paper 2 (7)** CULTURAL AND ART EDUCATION: A MEANS FOR SOCIAL STABILITY IN NORTHERN GHANA
Dr Eric Appau Asante and MAVIS DONKOR

**Paper 3 (53)** INNOVATIVE ACADEMY PROJECT - DISINFECTION OF EFFLUENTS WITH RENEWABLE ENERGY
Hen Friman and Faina Nakonechny

**Paper 4 (61)** EDUCATION, BUSINESS AND AGRICULTURE: AN INTEGRATION FOR ECONOMIC TRANSFORMATION IN DEVELOPING NATIONS: THE NIGERIAN EXPERIENCE
Dr Matthew Ojong Achigbe

**10.31 – 10.45**

**Morning Break**

**10.46 - 12.00**

**Session C2**

**Paper 1 (57)** EXPLORING THE EFFECT OF TECHNOLOGY SUPPORTED COLLABORATIVE LEARNING ON CREATIVE THINKING SKILLS OF PRE-SERVICE TEACHERS
Erhan ÜNAL and Fatih ÖZDİNÇ

**Paper 2 (64)** ASTIN THEORY AND SOCIAL NETWORKS
Dr Elham Akbari and prof Hamid Abdollahian

**Paper 3 (50)** EFFECT OF PAUL THE PERSIAN'S LOGICAL WORKS ON AL-MANTIQQ BY IBN AL-MUQAFFA
Seyedmohammadreza Azarkanb

**Paper 4 (136)** THE NECESSITY OF REGIONAL ECONOMIC INTEGRATION: A LESSON FOR SOUTH ASIA?
Md Rajin Makhdum Khan and Faizah Imam

**Paper 5 (137)** AN INVESTIGATION OF SENSORY LEARNING STYLES USED BY KURDISH EFL STUDENTS AT UNIVERSITY LEVEL
Dr. Hoshang Farooq Jawad and Mr. Salahaddin Saeed Khidr

### 24 October 17(T) - Session E
| 24 October 17 (T) 09.30 – 10.30 | **Session E1**
| | **Paper 1 (141)** TOURISM STRATEGY IN THE SUN TRIANGLE ANALYSIS WITH THE THEORY BASED ON RESOURCES AND INSTITUTIONAL THEORY
José G. Vargas-Hernández and Lic. Ana Yanetly Arias Orozco, Mexico
| | **Paper 2 (144)** CONTRADICTIONS AMONG STUDENTS OF BEING MALES AND FEMALES IN LEARNING ENGLISH AS A FOREIGN LANGUAGE.
Amina Babou, Algeria
| | **Paper 3 (145)** THE RELATIONSHIP BETWEEN SYSTEM OF SUGGESTIONS AND THE PRODUCTIVITY OF HUMAN RESOURCES: A CASE STUDY OF TEHRAN PROVINCE GASCO
Ali Aolatshah, Iran
| | **Paper 4 (120)** BLEMISHES IN SYLLABUS DESIGNING OF ENGLISH AT PRIMARY LEVEL OF EDUCATION IN PAKISTAN: AN OBSTACLE IN ATTAINING LANGUAGE PROFICIENCY
Zohaib Zahid and Dr Mamuna Ghani, Pakistan
| 10.31 – 10.45 | Morning Break
| 10.46 - 12.00 | **Session E2**
| | **Paper 1 (158)** TRAVELING THROUGH THE TOURISM PROMOTION TERMINOLOGY: CONSIDERATIONS UPON THE ADOPTION OF ENGLISH TERMS IN THE OFFICIAL WEBSITES OF ROME, MILAN, LUGANO AND BELLINZONA.
Claudia Maria ASTORINO
| | **Paper 2 (31)** ADVANCING SUSTAINABLE AGRO-TOURISM IN THE WESTERN BALKANS: INSIGHTS FROM THE KATUN PROJECT
Djurdjica Perovic and Sanja Pekovic and Tatjana Stanovcic and Jovana Vukcevic, Montenegro
| | **Paper 3 (163)** SHARING ECONOMY: THE ESTABLISHMENT OF ORGANIZATIONAL IDENTITY OVER TIME, CONSIDERING IDENTITY CLAIMS AND LEGITIMACY GRANTING
João Miguel O. Cotrim and Prof. Francisco Nunes
| | **Paper 4 (143)** REGENERATING PATRIARCHY: A STUDY ON GEORGE ORWELL’S VIEWS ON WOMEN AND FEMALE CHARACTERS
Khaled Zouaoui
| | **Paper 5 (154)** SATISFACTION OF INDIVIDUAL LEARNING NEEDS IN THE INTEGRATED TEACHING LEARNING MODEL IN PRIMARY SCHOOL
Professor Anita Petere
| 12.01 | Conference Close
| **23-24 October 17** | **Participation and Discussion**
| | 1. Dr Mustafa Arslan, Georgia,
| | 2. Dr Dr Olufemi Aramide, Nigeria
| | 3. Dr Asif Iqbal, China
| | 4. Professor Wang Zhuquan, China
| | 5. Dr Sumit Kumar dey, India
| **25 October 2017** | **Free day for Participants**
EQUIPMENT DESIGN TO CREATE TIE-DYE FABRIC PATTERN

Tanutpong Phriwanrat

Lecturer, Craft Products Design, Faculty of Fine and Applied Arts, Suan Sunandha Rajabhat University, Thailand

E-Mail: tanutpong.ph@ssru.ac.th, human_anatomy@hotmail.com@hotmail.com

ABSTRACT

The purpose of this research is to explore the tie-dye fabric’s information and analyze pattern creation approach in order to have an equipment making’s guideline. This study focused on detaining color in a various techniques, the result of staining by the basic technique found that coloration by tying, folding, pinching or even a crease were affect to a part of textile fiber that has been compressed in various approaches. Color is unable to infiltrate into a high density fiber On the other hand, less compression will cause less color insertion and generate a gradient from dark to light respectively. After the assumption, the researcher designed a pattern-making equipment by using a basic color detaining method as a guideline. The experiment has shown that a tie-dye pattern can be made according to the equipment.

Keywords: Design, Equipment, Tie-Dye

INTRODUCTION

Handicraft product or ‘CRAFT’ is a creation work from human hands. Crafting is becoming more popular. This is evidenced by the significant value of creative industries in handicrafts section, which are worth up to 8.7 billion Baht in 2014. Moreover, the value of Thai handicraft export in decorative, textiles, utensils, and ceramics is worth up to 5.85 billion Baht. These mentioned figures highly grow apart from Thailand’s overall economic circumstance, which indicates that handicrafts trend has more popular than before.[1]

Tie-dye fabric from a natural color is an indigenous knowledge which maintains its uniqueness style and color; natural cotton fiber, design process creates a simply pattern and natural color. These knowledge has been passed on generation to generation. But this simplicity identity does not satisfy Thai people as much as it could or make them proud at all. In conversely, it is very popular among foreigners. In these days, most Thai people rarely to see the beauty from natural dye fabric and perceive it as an old-fashioned.[2]

The analysis of handicraft for the future; a human being are a skilled craftsmen who have inherited an indigenous knowledge from the ancestors. There are unique techniques that create an identity of each product, by think outside the box from the old habitude, and focus on telling an important story behind the product in order to have a value-added. In some case, a craftsman’s creativity can build on a business by use the combination of inherited knowledge and material with a modern innovation and technology. These approaches generate a gorgeous, applicable, and be more international handicrafts.[3]

Creating new thing with a creative design process and new synthesis. This is a collection of a several existing works that have been synthesized to become a new success.[4]

Product design is part of product development to add value to the product. The word ‘Product Design’ does not mean about the physical product only, but it is also a process design and technique design. Last but not least, an equipment design in order to make a new products and diversified for satisfy consumer’s need.

OBJECTIVES

To study tie-dye fabric techniques or processes in order to design a pattern-making equipment...
**METHODOLOGY**

The researcher studied a related information from books, journal, conceptual framework and tie-dye researches to analyze. This study has been recorded by notes and recording tool. Divided into two sections; the study of 5 tie-dye basic processes and the experimental of pattern-making equipment which has the step as followings:

**Step 1. Study about tie-dye information and product design**

The information that the researcher used in this study comes from two sources:

1. Primary Data was collected from the experts by the researcher. The collection has been done by interviews, questionnaires and observations are the important tool for the data collection in this study.
2. Secondary Data was relevant to this study. The researcher collected from other sources or any other institute has been collected such as reports, researches, thesis, journals, books, newspaper or websites.

**Tools creation and development**

1. Study the data recorded, documents, books, related researches in tie-dye fabric and product design.
   1.1 The researcher studied books, documents and related researches in tie-dye fabric and product design.
   1.2 Summarize and record all main content in order to use in pattern-making tools. For the further tie-dye fabric development, the researcher collected data from the study of books, documents, and related researches in the form of notes.
2. Data Analysis
   The researcher analyzed the data from the record logs gathered from the studies, books and journal. Then, summarized as a content analysis.

**Step 2. Tie-dye techniques experimental**

1. Data Sources
   1.1 Documents, books, and related researches in tie-dye fabric.
2. Recording Tool
   2.1 Notes

**Tools creation and development**

A study of tie-dyeing techniques to design a pattern-making tools, the researcher have defined the creating and developing steps as follows;

1. Notes, documents, books, journals and related researches in tie-dye fabric:
   1.1 Study the related contents, articles and related researches.
   1.2 Summarize the main point and make it as a guideline for an equipment design.
2. Experiment and data collection.
   2.1 In this study, data has been collected by recording the study of tie-dye basic process experimental result in a form of notes.
3. Data Analysis
   3.1 The researcher analyzed data from the experiment of creating a pattern maker tool. Then, summarize the technique and apply as a design method.
Step 3. The prototyping procedures
Summarize the result of the equipment experimental in making tie-dye fabric pattern.

1. Source of information
   1.1 Documents, books, articles, journals, related researches in tie-dye fabric and the result from the experiment.

2. Recording data tools
   2.1 Notes
   The prototyping procedures
   Tie-dyeing techniques that have been applied to design a prototype pattern-making tools are defined as following steps;
   1. Study the data recorded, documents, books, related researches in tie-dye fabric and product design.
      1.1 The researcher studied books, documents and related researches in tie-dye fabric and product design.
      1.2 Summarize and record all main content in order to use in pattern-making tools. For the further tie-dye fabric development, the researcher collected data from the study of books, documents, and related researches in the form of notes.

Research Findings
The results of the study and data analysis of 5 basic tie-dyeing techniques are as follows.

Table 1
Table of Scrunched up technique Analysis

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<th>Results</th>
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### Table 2
Table of Pull a fabric on the pipe technique Analysis

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<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Table 3
Table of Tie with rubber band and rope technique Analysis

<table>
<thead>
<tr>
<th>Technique</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Table 4
Table of Folding and pinching technique Analysis

<table>
<thead>
<tr>
<th>Technique</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Table 5
Table of Pulled by a rope technique Analysis

<table>
<thead>
<tr>
<th>Technique</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
</tbody>
</table>

From the basic experimental study, it was found that the color gradient from dark to light respectively caused from color infiltration capability. These approaches, tying, folding, pinching and making a crease affect to a part of textile fiber that has been compressed.

Table 6
Table of pattern-making equipment technique Analysis

<table>
<thead>
<tr>
<th>Technique</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

Experimental results of design pattern-making equipment

The researcher combined a designed equipment with rubber band because of it has a heat resistant characteristic. After dyeing process, the researcher removed the fabric to see a pattern from the equipment.

**DISCUSSION**

After studied many techniques, the researcher used detaining color by folding and pinching techniques to have an obvious pattern and enough selected space for color insertion. With the design concept of pattern-making tools, it can be assembled into pieces based on the fabric size.

The discussion result found that the researcher can create a tie-dye pattern by using a designed equipment, which is similar to Chanoknart Mayusoh. By using a tying, folding, and pinching techniques to create a pattern but some part did not show obviously as much as it could. Due to the material of a pattern-making
equipment was a metal, which has low flexibility. Thus, the result of fabric compression was not good as it should, causing the color insertion was disorganize.\(^5\)

From the research result, there are the recommendations as below;
1. This study focused on design a pattern-making tools for tie-dye fabric, which be able to apply into creating another pattern.
2. It should have other study in a different techniques and materials for design equipment in order to have more effective.

**REFERENCES**

1. Pattarsiri Apichid, 2559. Craftnow Think, 7, 8, 14
2. Chanoknart Mayusoh, 2555. Fine art fabric tie-dye pattern design with natural color. Study in category, format, technique and process of pattern design with natural color. I.
4. The Support Arts and Crafts International Centre of Thailand, 2559. SACICT CRAFT TRAND. Bangkok: Amarin printing and publishing.
5. Chanoknart Mayusoh, 2555. Fine art fabric tie-dye pattern design with natural color. Study in category, format, technique and process of pattern design with natural color. 42.