Exhibit 1 : Front Cover

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| --- | --- | --- | --- |
|   | 1cm2cm1.5cm |  4 cm |  |
| High Efficiency Polymerization of |  | Master’s(Doctoral) Thesis |  |
|  |  | High Efficiency Polymerization of Synthetic Fibers2.5cm |  |
|  |  |  |  |
| 2010 |  | Sung Sil Kim (Name in Korean)Department of Chemical EngineeringPohang University of Science and Technology2010 |  |
|  |  | 6mm |  |
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|  |  |  |  |
|  |  |  |  |
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|  | 1.5cm |  |  |
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\* Font Size: Title 21pt, Others 16pt

\* Year: Enter the year of graduation.

Exhibit 2 : Title Page

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| (Title in Korean)High Efficiency Polymerization of Synthetic Fibers |

 \* Font Size: Title 21pt (for both Korean & English)

Exhibit 3 : Approval for Submission of Thesis

|  |
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| High Efficiency Polymerization of Synthetic Fibers by ○  ○  ○ (Name of Student)Department of ○  ○  ○  ○(○  ○  ○ program)Pohang University of Science and Technology A thesis submitted to the faculty of the Pohang University of Scienceand Technology in partial fulfillment of the requirements for the degreeof Master of Science [Doctor of Philosophy(Doctoral)] in the○  ○  ○(○  ○  ○ program) Pohang, Korea○.  ○.    20 ○○Approved by○  ○  ○ (Signature)Academic Advisor |
| \* Font Size: Title 21pt, Others 14pt\* Date: Enter the date of signature. \* Refer to Exhibit 13 for the department names.  |

Exhibit 4 : Thesis/Dissertation Approval Certificate

|  |
| --- |
| **Thesis Title**  Sung Sil Kim The undersigned have examined this thesis/dissertation and hereby certify that it is worthy of acceptance for a master's/doctoral degree from POSTECH    MM/DD/YYYY Committee Chair  ○  ○  ○   (Seal)Member  ○  ○  ○   (Seal)Member  ○  ○  ○   (Seal)Member  ○  ○  ○   (Seal)Member  ○  ○  ○   (Seal)  |

\* Font Size: Title 21pts, Name 16pts, Others 14pts

\* Three seals required for master's and five seals required for doctoral degree.

\* Date: Enter the approval date.

Exhibit 5 : Abstract (in English)

10㎜ 20㎜

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| ↑     213mm3.5㎜↓─     Degree    Name(Korean)  ○ ○         Name(English)  ○ ○         Font type :Arial       Student    Title(English)  ○ ○         Title(Korean)  ○ ○         No.      Department, Year of Graduation, Pages,─                Advisor : Name. Text in English ↑ 40㎜ ↓─  ABSTRACT↑   (Indent 5 spaces when you begin a paragraph)Degree Abbreviation of Department

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Department(Prog). |  | Master’s |  | Doctoral |
| Mathematics |  | MMA |  | DMA |
| Physics |  | MPH |  | DPH |
| Chemistry |  | MCH |  | DCH |
| Molecular & Life Sci. |  | MMLS |  | DMLS |
| Materials Sci. & Eng. |  | MMS |  | DMS |
| Mechanical & Industrials Eng. |  | MMIE |  | DMIE |
| Electrical & Computer Eng. |  | MECE |  | DECE |
| Chemical Eng. |  | MCE |  | DCE |
| Adv. Materials Sci. |  | MAMS |  | DAMS |
| Integrative Biosci. Biotech. |  | MIBT |  | DIBT |
| IT Convergence Eng. |  | MITCE |  | DITCE |
| Adv.Nuclear Eng. |  | MANE |  | DANE |
| Environmental Sci. & Eng. |  | MEV |  | DEV |
| Interdiscl’y Biosic. & Bioeng. |  | MIBB |  | DIBB |
| Tech. and Innovation Mana. |  | MTIM |  | DTIM |
| Wind Energy |  | MWE |  | DWE |
| Creative IT Excellence Eng. |  | MCITE |  | DCITE |
| Grad. Sch’l of Eng. Mastership |  | MGEM |  | DGEM |
| Graduate Inst. of Ferrous Tech. |  | MGIFT |  | DGIFT |
| Ocean Sci. & Tech. Inst. |  | MOSTI |  | DOSTI |

\* Font Size: Title 14pt, Others 11pt, Within 1,000 words in English\* Pages before the main contents should be numbered with Roman numerals.\* Refer to an example on the next page.↓ |

Exhibit 6 : Example of an Abstract Page (in English)

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| --- | --- | --- | --- | --- |
|  MCH      “Korean Name” Sung Sil Kim, High Efficiency Polymerization of20010001  Synthetic Fibers. Title in Korean,       Department of Chemistry, 2009, 108P, Advisor: ChulSu Kim       Text in English.(in case of contents in nglish)   **ABSTRACT**

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| \* When writing your name in English, your given name should be followed by your family name. |

Exhibit 7 : Contents Page

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|  Contents 1. Introduction ………………………………………………………………….1

  II. Literature survey ……………………………………………………………4       2.1 ……………………………………………………………………………4       2.2 ……………………………………………………………………………5  III. Experimental ……………………………………………………………….6       3.1 ……………………………………………………………………………6       3.2 ……………………………………………………………………………7       3.3 …………………………………………………………………………...11       3.4 ……………………………………………………………………………12       3.5 ……………………………………………………………………………12 |
| \* Make sure to number your contents correctly. \* Font Size: Title 14pt             Others 11pt |

Exhibit 8 : Main Content

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|  1. Introduction

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 II. Literature survey

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 III. Experimental

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\* Font Size: Title 14pt, Others 11pt

Exhibit 9 : Summary in Korean

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|  요  약  문

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| \* Font Size: Title 14pt, Others 11pt\* Summary in Korean should be about 2,000 characters in length including space. |

Exhibit 10 : References

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| --- |
|    **REFERENCES**   1. Baker, K.P., Dixon, p., Magazine, M/I. and Silver, E.A. “An algorithm for the dynamic lot sizing problem with time varying production capacity constraints.”

   Management Science, Vol.24, No.16, 1978, PP.1710-1720.   2. Bahl, H.C., “Column generation based heuristic algorithm for multi- item scheduling,”   IIE, Vol.15, No2, 1983. Pp.136-141.   3. Bahl, H.C. and Ritzman, L.P. “A cyclic scheduling heuristics for lot sizing with capacity constraints, International Journal of Production Research, Vol.No.2, 1984, pp. 791-800” |
| \* Font Size: Title 14ptOthers 11pt |

Exhibit 11 : Acknowledgements

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|     Acknowledgements     |

\* Font Size: Title 14pt

             Others 11pt

Exhibit 12 : Curriculum Vitae

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|    Curriculum Vitae  Name : Education1990~1994  ………………………………………………………………(B.S.)1994~1996  ………………………………………………………………(M.S.)1996~2000  ………………………………………………………………(Ph.D.)  Experience 1996.3~2000 ………………………………………………………….  Affiliation ………………………………………………………………………………………… ………………………………………………………………………………………… |

\* Font Size: Title 14pt, Others 11pt

 \* Don’t describe other item to protect your personal information except above item.

Exhibit 13: List of Department (Program) Names

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| * Department of ~ (~program)
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| * Mathematics
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| * Physics
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| * Chemistry
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| * Materials Science and Engineering
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| * Chemical Engineering
 |  |
| * Creative IT Excellence Engineering
 |  |
| * Division of ~ (~program)
 |  |
| * Molecular and Life Science
 |  |
| * Mechanical and Industrial Engineering
 |  |
| * Electrical and Computer Engineering
 |  |
| * Advanced Materials Science
 |  |
| * Integrative Biosciences & Biotechnology
 |  |
| * IT Convergence Engineering
 |  |
| * Advanced Nuclear Engineering
 |  |
| * Division of Environmental Science & Engineering
 |  |
| * School of Interdisciplinary Bioscience & Bioengineering
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| * Graduate Program for Technology & Innovation Management
 |  |
| * Graduate School Wind Energy
 |  |
| * Graduate School of Engineering Mastership
 |  |
| * Graduate Institute of Ferrous Technology
 |  |
| * Ocean Science & Technology Institute
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