Exhibit 1 : Front Cover

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1cm  2cm  1.5cm | 4 cm |  |
| High Efficiency Polymerization of |  | Master’s(Doctoral) Thesis |  |
|  |  | High Efficiency Polymerization of Synthetic Fibers  2.5cm |  |
|  |  |  |  |
| 2  0  1  0 |  | Sung Sil Kim (Name in Korean)  Department of Chemical Engineering  Pohang University of Science and Technology  2010 |  |
|  |  | 6mm |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | 2.5cm |  |  |
|  | 1.5cm |  |  |
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|  |  |  |  |

\* Font Size: Title 21pt, Others 16pt

\* Year: Enter the year of graduation.

Exhibit 2 : Title Page

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

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

Exhibit 3 : Approval for Submission of Thesis

|  |
| --- |
| 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 Science  and Technology in partial fulfillment of the requirements for the degree  of 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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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ↑  213mm  3.5㎜  ↓  ─     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)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MCH      “Korean Name” Sung Sil Kim, High Efficiency Polymerization of  20010001  Synthetic Fibers. Title in Korean,         Department of Chemistry, 2009, 108P, Advisor: ChulSu Kim         Text in English.(in case of contents in nglish)        **ABSTRACT**   |  | | --- | |  | |  | |  | |  | |
| \* When writing your name in English, your given name should be followed by your family name. |

Exhibit 7 : Contents Page

|  |
| --- |
| 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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Introduction      |  | | --- | |  | |  | |  | |  |     II. Literature survey       |  | | --- | |  | |  | |  | |  |     III. Experimental   |  | | --- | |  | |  | |  | |  | |

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

Exhibit 9 : Summary in Korean

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

Exhibit 10 : References

|  |
| --- |
| **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 14pt  Others 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 :    Education  1990~1994  ………………………………………………………………(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

|  |  |
| --- | --- |
| * Department of ~ (~program) |  |
| * Mathematics |  |
| * Physics |  |
| * Chemistry |  |
| * Materials Science and Engineering |  |
| * 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 |  |
| * Graduate Program for Technology & Innovation Management |  |
| * Graduate School Wind Energy |  |
| * Graduate School of Engineering Mastership |  |
| * Graduate Institute of Ferrous Technology |  |
| * Ocean Science & Technology Institute |  |