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| **Course Map** |
| Department name | Department of Forestry |
| Class | PhD Program (103-1) |
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| **Educational Objectioves** |
| **No.** | **Item** |
| 1 | To cultivate advanced technological professionals who possess a global perspective, independence, and innovative capabilities, in the field of forest resources conservation, management, and the sustainable utilization of biomaterials |
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| **Student’s Core Competencies** |
| **No.** | **Item** | **Corresponding to Educational Objectives No.** |
| 1 | Advanced knowledge and skills in forest resources conservation | 1 |
| 2 | Advanced knowledge and skills in forest management | 1 |
| 3 | Advanced knowledge and skills in sustainable utilization of biomaterial | 1 |

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| **Lesson Plan** |
| **Course Chinese Name** | **Course English Name** | **Planning points (See note)** | **Corresponding core competency No.** | **Sugges-ted grade level** | **Offering department** | **Notes** |
| 1 | 2 | 3 | 4 |
| **College Core Courses (If not exempted, please state compulsory or electives)** |
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| **Compulsory Courses** |
| 森林經營與管理專題(三) | Seminar in Forest Management and Administration (III) | D | C | Y | 2 | 2-100 | 1 | Department of Forestry | 　 |
| 森林生物與保育專題(三) | Seminar in Forest Biology & Conservation (III) | D | C | Y | 2 | 1-100 | 1 | Department of Forestry | 　 |
| 林產物性專題(三) | Seminar in Physical Aspects of Forest Products (III) | D | C | Y | 2 | 3-100 | 1 | Department of Forestry | 　 |
| 林產化性專題(三) | Seminar in Chemical Aspects of Forest Products (III) | D | C | Y | 2 | 3-100 | 1 | Department of Forestry | 　 |
| 森林經營與管理專題(四) | Seminar in Forest Management and Administration (IV) | D | C | Y | 2 | 2-100 | 2 | Department of Forestry | 　 |
| 森林生物與保育專題(四) | Seminar in Forest Biology & Conservation (IV) | D | C | Y | 2 | 1-100 | 2 | Department of Forestry | 　 |
| 林產物性專題(四) | Seminar in Physical Aspects of Forest Products (IV) | D | C | Y | 2 | 3-100 | 2 | Department of Forestry | 　 |
| 林產化性專題(四) | Seminar in Chemical Aspects of Forest Products (IV) | D | C | Y | 2 | 3-100 | 2 | Department of Forestry | 　 |
| 博士論文 | Dissertation | D | C | Y | 12 | 1-30,2-30,3-40 | 2 | Department of Forestry | 　 |

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| **Lesson Plan** |
| **Course Chinese Name** | **Course English Name** | **Planning points (See note)** | **Correspond-ing core competency No.** | **Sugges-ted grade level** | **Offering departm-ent** | **Notes** |
| 1 | 2 | 3 | 4 |
| **選修課程** |
| 自然資源遊憩觀光特論 |  Special Topics in Natural Resource Recreation and Tourism | D | A | S | 3 | 2-100 | 1 | Department of Forestry | 101-1 newly opened |
| 森林經理學特論 | Advanced Forest Management | D | A | Y | 4 | 2-100 | 1 | Department of Forestry | 　 |
| 林業政策特論 | Advanced Forest Policy | D | A | S | 3 | 2-100 | 2 | Department of Forestry | 　 |
| 森林法律學特論 | Advanced Forest Law | D | A | S | 2 | 2-100 | 2 | Department of Forestry | 　 |
| 林木生長收穫學特論 | Special Topics in Growth and Yield | D | A | S | 3 | 2-100 | 1 | Department of Forestry | 　 |
| 木材分類學特論 | Advanced Wood Anatomy | D | A | S | 3 | 1-100 | 1 | Department of Forestry | 　 |
| 育林學研究法 | Research Methods in Silviculture | D | A | S | 3 | 1-100 | 1 | Department of Forestry | 　 |
| 高等林木育種學 | Advanced Forest Tree Breeding | D | A | S | 3 | 1-100 | 1 | Department of Forestry | 　 |
| 木質材料檢驗原理 | Testing Theory for Wood-Based Materials | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 植物分類學特論 | Advanced Plant Taxonomy | D | A | S | 3 | 1-100 | 1 | Department of Forestry | 　 |
| 木質素化學 | Lignin Chemistry | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 反應性高分子 | Chemistry of Reactive Polymers | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 特種紙製造特論 | Manufacture of Special Paper | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 粘著原理 | Principle of Tackiness | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 木質環境科學特論 | Advanced Topics in Wooden Environmental Science | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 紙力學性質特論 | Special Topics in Paper Mechanical Properties | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |
| 無機高分子化學 | Chemistry of Inorganic Polymer | D | A | S | 3 | 3-100 | 1 | Department of Forestry | 　 |