## **Curriculum Structure of Doctor by Research & Course Program**

**Classification of Course**

|  |  |  |  |
| --- | --- | --- | --- |
| Group | Code | Course | Credit |
| Compulsory Courses | SCMS901001 | Research Proposal Defense | 6 |
| SCMS902001 | International Publication | 8 |
| SCMS903001 | Research Result Defense | 10 |
| SCMS903002 | Promotion Defense | 8 |
|  | SCMF901001 | Phylosophy of Science | 2 |
| SCMF901002 | Research Method | 2 |
| SCMS901103 | Analytic method in Materials Characterization | 4 |
| SCMS901104 | Special Topics | 6 |
| Elective Courses | SCMS901105 | Advanced Ceramic | 4 |
| SCMS901106 | Advanced Polymer | 4 |
| SCMS901107 | Science and Technology of Metal/Alloy | 4 |
| SCMS901108 | Electronic and Magnetic Materialss | 4 |

**Percentage of Courses Groups**

|  |  |  |
| --- | --- | --- |
| Compulsory courses | 46 Credits | 92 % |
| Elective courses | 4 Credits | 8 % |
| Total | 50 Credits | 100% |

**Distribution of Courses**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 |
| 12 Compulsory  + 4 Elective Courses  (16 Credits) | Proposal Research Defense (6 Credits) | Research Result Seminar  (0 Credits) | Research Result Seminar  (0 Credits) | Research Result Defense (10 Credits) | Promotion (8 Credits) |
| International Publication (8 Credits) | |
| Scientific Publication 1 (4 Credits) | |