

## 正修科技大學 工業工程與管理系 114 年度春季班入學新生課程標準

|                  |                                    |                                                                          |       |                |        |                            |       |
|------------------|------------------------------------|--------------------------------------------------------------------------|-------|----------------|--------|----------------------------|-------|
| 學制               | 碩士班                                |                                                                          |       |                |        |                            |       |
| 特殊專班             | 國際產業人才新型專班(英文春季班)                  |                                                                          |       |                |        |                            |       |
| 課程會議             | 113.09.02                          |                                                                          |       | 系課程及選課輔導委員會議通過 |        |                            |       |
|                  | 113.09.11                          |                                                                          |       | 院課程委員會議通過      |        |                            |       |
|                  | 113.09.23                          |                                                                          |       | 校課程委員會議通過      |        |                            |       |
|                  | 113.09.23                          |                                                                          |       | 教務會議通過         |        |                            |       |
| 畢業應修學分數<br>/修業年限 | 碩士班：至少須修滿 42 學分（修業期限以一至四年為限）       |                                                                          |       |                |        |                            |       |
| 必修/選修            | 學分數                                | 相關辦法/備註                                                                  |       |                |        |                            |       |
| 必修               | 27 學分                              | 碩士班研究生修業規定：含高等生產與作業管理 3 學分、論文 6 學分、書報討論 0 學分二學期、研究方法 0 學分一學期、產業實習 18 學分。 |       |                |        |                            |       |
| 選修               | 15 學分                              | 華測成績未達 B1 級者應修華語文課程。                                                     |       |                |        |                            |       |
| 每學期所修學分數         | 每學期修習課程最多 18 學分，但第一學年每學期不得少於 6 學分。 |                                                                          |       |                |        |                            |       |
| 備註               | 無                                  |                                                                          |       |                |        |                            |       |
| 一年級必修課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 共同必修             | M06A01                             | 書報討論(一)                                                                  | 0/2   | 共同必修           | M06A02 | 書報討論(二)                    | 0/2   |
| 共同必修             | M06403                             | 高等生產與作業管理                                                                | 3/3   | 共同必修           | M06A05 | 研究方法                       | 0/2   |
| 共同必修             | M06A16                             | 志工服務與社會責任(一)                                                             | 0/1   | 共同必修           | M06A17 | 志工服務與社會責任(二)               | 0/1   |
| 二年級必修課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 共同必修             | M06A18                             | 志工服務與社會責任(三)                                                             | 0/1   | 共同必修           | M06A19 | 志工服務與社會責任(四)               | 0/1   |
|                  |                                    |                                                                          |       | 共同必修           | M06B03 | 論文                         | 6 學分  |
| 一年級語文課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 語文               |                                    | 華語文教學(一)                                                                 | 5/10  | 語文             |        | 華語文教學(二)                   | 4/4   |
| 二年級語文課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 語文               |                                    | 進階華語文(一) @<br>數位學習課程(遠距教學)                                               | 2/2   | 語文             |        | 進階華語文(二) @<br>數位學習課程(遠距教學) | 2/2   |
| 一年級選修課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 專業選修             | M06N15                             | 製造管理                                                                     | 3/3   | 專業選修           | M06N08 | 高等品質管理                     | 3/3   |
| 專業選修             | M06N49                             | 統計資料分析                                                                   | 3/3   | 專業選修           | M06N56 | 國際供應鏈管理                    | 3/3   |
| 專業選修             | M06N19                             | 六標準差                                                                     | 3/3   | 專業選修           | M06N40 | 排程理論與策略                    | 3/3   |
| 專業選修             | M06N43                             | 自動化生產系統                                                                  | 3/3   | 專業選修           | M06N52 | 專案管理專題                     | 3/3   |
| 專業選修             | M06N28                             | 績效評估與管理                                                                  | 3/3   | 專業選修           | M06N62 | 物聯網應用實務                    | 3/3   |
| 專業選修             | M06N71                             | 國際企業管理                                                                   | 3/3   | 專業選修           | M06N41 | 資料探勘                       | 3/3   |
| 專業選修             | M06N75                             | 新能源發展趨勢                                                                  | 3/3   | 專業選修           | M06N76 | 綠能與減碳技術                    | 3/3   |
| 二年級實習課程          |                                    |                                                                          |       |                |        |                            |       |
| 科目類別             | 科目代碼                               | 科目名稱                                                                     | 學分/時數 | 科目類別           | 科目代碼   | 科目名稱                       | 學分/時數 |
| 專業必修             | M06A22                             | 產業實習(一)                                                                  | 9/9   | 專業必修           | M06A23 | 產業實習(二)                    | 9/9   |
|                  |                                    |                                                                          |       | 專業選修           | M06N72 | 暑期產業實習                     | 3/3   |

**Curriculum of International Master Program, Spring Semester, 2025**  
**Department of Industrial Engineering and Management, Cheng Shiu University**

|                                                     |             |                                                                                                                         |                                                                                                                                                                              |                  |             |                                                  |                |
|-----------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--------------------------------------------------|----------------|
| School system                                       |             | Master                                                                                                                  |                                                                                                                                                                              |                  |             |                                                  |                |
| Class                                               |             | INTENSE Program (English/ Spring Semester)                                                                              |                                                                                                                                                                              |                  |             |                                                  |                |
| Course Meeting                                      |             | 113.09.02                                                                                                               |                                                                                                                                                                              |                  |             | 系課程及選課輔導委員會議通過                                   |                |
|                                                     |             | 113.09.11                                                                                                               |                                                                                                                                                                              |                  |             | 院課程委員會議通過                                        |                |
|                                                     |             | 113.09.23                                                                                                               |                                                                                                                                                                              |                  |             | 校課程委員會議通過                                        |                |
|                                                     |             | 113.09.23                                                                                                               |                                                                                                                                                                              |                  |             | 教務會議通過                                           |                |
| The number of credits for graduation / Study period |             | Master's students need to pass 42 credits at least. (The study period is 1 to 4 years)                                  |                                                                                                                                                                              |                  |             |                                                  |                |
| Required course / Elective course                   |             | Course credits                                                                                                          | Related Legislation / Remark                                                                                                                                                 |                  |             |                                                  |                |
| Required course                                     |             | 27 credits                                                                                                              | Advanced Production and Operations Management/ 3 credits, Thesis/ 6 credits, Seminar/ 0 credit in 2 semesters, Research Methods/ 0 credit, Industrial Internship/ 18 credit. |                  |             |                                                  |                |
| Elective course                                     |             | 15 credits                                                                                                              | those who do not reach B1 in the Chinese Test should take the Chinese Teaching course.                                                                                       |                  |             |                                                  |                |
| Number of credits taken each semester               |             | The maximum of 18 credits each semester.<br>Please do not less than 6 credits each semester in the first academic year. |                                                                                                                                                                              |                  |             |                                                  |                |
| Remark                                              |             | N/A                                                                                                                     |                                                                                                                                                                              |                  |             |                                                  |                |
| 1 <sup>st</sup> Required Courses                    |             |                                                                                                                         |                                                                                                                                                                              |                  |             |                                                  |                |
| Course Type                                         | Course Code | Course Title                                                                                                            | Credits/ Hours                                                                                                                                                               | Course Type      | Course Code | Course Title                                     | Credits/ Hours |
| Required Course                                     | M06A01      | Seminar (1)                                                                                                             | 0/2                                                                                                                                                                          | Required Course  | M06A02      | Seminar (2)                                      | 0/2            |
| Required Course                                     | M06403      | Advanced Production and Operations Management                                                                           | 3/3                                                                                                                                                                          | Required Course  | M06A05      | Research Methods                                 | 0/2            |
| Required Courses                                    | M06A16      | Volunteer Services and Social Responsibility (1)                                                                        | 0/1                                                                                                                                                                          | Required Courses | M06A17      | Volunteer Services and Social Responsibility (2) | 0/1            |
| 2 <sup>nd</sup> Required Courses                    |             |                                                                                                                         |                                                                                                                                                                              |                  |             |                                                  |                |
| Course Type                                         | Course Code | Course Title                                                                                                            | Credits/ Hours                                                                                                                                                               | Course Type      | Course Code | Course Title                                     | Credits/ Hours |
| Required Courses                                    | M06A18      | Volunteer Services and Social Responsibility (3)                                                                        | 0/1                                                                                                                                                                          | Required Courses | M06A19      | Volunteer Services and Social Responsibility (4) | 0/1            |
|                                                     |             |                                                                                                                         |                                                                                                                                                                              | Required Course  | M06B03      | Thesis                                           | 6 Credits      |
| 1 <sup>st</sup> Language Courses                    |             |                                                                                                                         |                                                                                                                                                                              |                  |             |                                                  |                |
| Course Type                                         | Course Code | Course Title                                                                                                            | Credits/ Hours                                                                                                                                                               | Course Type      | Course Code | Course Title                                     | Credits/ Hours |
| Language                                            |             | Chinese Teaching (I)                                                                                                    | 5/10                                                                                                                                                                         | Language         |             | Chinese Teaching (II)                            | 4/4            |
| 2 <sup>nd</sup> Language Courses                    |             |                                                                                                                         |                                                                                                                                                                              |                  |             |                                                  |                |
| Course Type                                         | Course Code | Course Title                                                                                                            | Credits/ Hours                                                                                                                                                               | Course Type      | Course Code | Course Title                                     | Credits/ Hours |
| Language                                            |             | Advanced Chinese (1) @ E-Learning                                                                                       | 2/2                                                                                                                                                                          | Language         |             | Advanced Chinese (2) @ E-Learning                | 2/2            |

| 1 <sup>st</sup> Elective Courses   |             |                                       |                |                 |             |                                                |                |
|------------------------------------|-------------|---------------------------------------|----------------|-----------------|-------------|------------------------------------------------|----------------|
| Course Type                        | Course Code | Course Title                          | Credits/ Hours | Course Type     | Course Code | Course Title                                   | Credits/ Hours |
| Elective Course                    | M06N15      | Manufacturing Management              | 3/3            | Elective Course | M06N08      | Advanced Quality Management                    | 3/3            |
| Elective Course                    | M06N49      | Statistical Data Analysis             | 3/3            | Elective Course | M06N56      | International Supply Chain management          | 3/3            |
| Elective Course                    | M06N19      | Six Sigma                             | 3/3            | Elective Course | M06N40      | Scheduling Theory and Strategy                 | 3/3            |
| Elective Course                    | M06N43      | Automatic Production System           | 3/3            | Elective Course | M06N52      | Seminars of Project Management                 | 3/3            |
| Elective Course                    | M06N28      | Performance Evaluation and Management | 3/3            | Elective Course | M06N62      | IoT Application                                | 3/3            |
| Elective Course                    | M06N71      | International Business Management     | 3/3            | Elective Course | M06N41      | Data Mining                                    | 3/3            |
| Elective Course                    | M06N75      | New Energy Development Trends         | 3/3            | Elective Course | M06N76      | Green Energy and Carbon Reduction Technologies | 3/3            |
| 2 <sup>nd</sup> Internship Courses |             |                                       |                |                 |             |                                                |                |
| Course Type                        | Course Code | Course Title                          | Credits/ Hours | Course Type     | Course Code | Course Title                                   | Credits/ Hours |
| Required Course                    | M06A22      | Industrial Internship (1)             | 9/9            | Required Course | M06A23      | Industrial Internship (2)                      | 9/9            |
|                                    |             |                                       |                | Elective Course | M06N72      | Summer Internship                              | 3/3            |