

| 黎明技術學院日間部四年制技術系(秋季班)智慧製造工程系 標準課程表                                                                                                                                          |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------|-------------|-----------------|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------|-------------|-----------------|-------------|------------------------------------------------------|------------------------------------------------------|-------------|-----------------|-------------|--------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------|-------------|---------------|-------------|---------------|----------------|----|------------------|--|
| LEE-MING Institute of Technology, Day Division, Four-Year Technical Program (Fall Admission), Department of Smart Manufacturing Engineering, Standard Curriculum Framework |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 114學年度入學學生適用                                                                                                                                                               |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| Applicable to Students Enrolled in the Academic Year 114                                                                                                                   |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 113學年度第1學期第3次校課程發展委員會通過(113.12.26)                                                                                                                                         |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 114.04.24 113學年度第2學期第2次校課程委員會修正                                                                                                                                            |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 114.09.04 114學年度第1學期第1次校課程委員會修訂                                                                                                                                            |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 最後修改日期：LastUpdateDate:                                                                                                                                                     |                                                             |                 |             |                 |             |                                                                                    |                                                     |             |                 |             |                                                      |                                                      |             |                 |             |                                                        |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 114學年度(一年級)<br>Academic Year 114(1st Academic Year)                                                                                                                        |                                                             |                 |             |                 |             | 115學年度(二年級)<br>Academic Year 115(2nd Academic Year)                                |                                                     |             |                 |             |                                                      | 116學年度(三年級)<br>Academic Year 116(3rd Academic Year)  |             |                 |             |                                                        |                                                     | 117學年度(四年級)<br>Academic Year 117(4th Academic Year) |                 |             |               |             |               | 累計<br>Subtotal |    | 畢業<br>Graduation |  |
| 類別<br>Category                                                                                                                                                             | 科目<br>Subject                                               | 上學期<br>1st Sem. |             | 下學期<br>2nd Sem. |             | 科目<br>Subject                                                                      | 上學期<br>1st Sem.                                     |             | 下學期<br>2nd Sem. |             | 科目<br>Subject                                        | 上學期<br>1st Sem.                                      |             | 下學期<br>2nd Sem. |             | 科目<br>Subject                                          | 上學期<br>1st Sem.                                     |                                                     | 下學期<br>2nd Sem. |             | 學分<br>Credits | 時數<br>Hours | 學分<br>Credits |                |    |                  |  |
|                                                                                                                                                                            |                                                             | 學分<br>Credits   | 時數<br>Hours | 學分<br>Credits   | 時數<br>Hours |                                                                                    | 學分<br>Credits                                       | 時數<br>Hours | 學分<br>Credits   | 時數<br>Hours |                                                      | 學分<br>Credits                                        | 時數<br>Hours | 學分<br>Credits   | 時數<br>Hours |                                                        | 學分<br>Credits                                       | 時數<br>Hours                                         | 學分<br>Credits   | 時數<br>Hours |               |             |               |                |    |                  |  |
| 共同科目<br>必修<br>Required<br>General<br>Courses                                                                                                                               | [00017054]華語文(一)<br>Chinese I                               | 5               | 10          |                 |             | [00001485]體育一<br>Physical Education I                                              | 2                                                   | 2           |                 |             | □                                                    |                                                      |             |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00017055]華語文(二)<br>Chinese II                              |                 |             |                 | 5           | 10                                                                                 | [00001487]體育二<br>Physical Education II              |             |                 |             | 2                                                    | 2                                                    |             |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 小計 / Subtotal                                                                                                                                                              |                                                             | 5               | 10          | 5               | 10          | 小計 / Subtotal                                                                      | 2                                                   | 2           | 2               | 2           | 小計 / Subtotal                                        |                                                      |             |                 |             | 小計 / Subtotal                                          |                                                     |                                                     |                 |             |               | 14          | 24            | 14             | 24 |                  |  |
| 專業必修<br>Professional<br>Required<br>Courses                                                                                                                                | [00020928]工廠實習一<br>Factory internship (1)                   | 3               | 3           |                 |             | [00020994]電腦輔助製圖<br>Computer Assisted Drafting                                     | 3                                                   | 3           |                 |             | [00020902]智慧製造專題一<br>Smart Manufacturing Project (1) | 3                                                    | 3           |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020927]程式應用實作<br>Program Application Implementation      | 3               | 3           |                 |             | [00020899]統計原理與應用<br>Statistical Principles and Applications                       | 3                                                   | 3           |                 |             | [00020626]校外實習(三)*<br>Extracurricular Practice(3)    | 6                                                    | 6           |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020929]人工智慧概論<br>Introduction to Artificial Intelligence |                 |             |                 | 3           | 3                                                                                  | [00020621]校外實習(一)*<br>Extracurricular Practice(1)   | 6           | 6               |             |                                                      | [00020903]智慧製造專題二<br>Smart Manufacturing Project (2) |             |                 |             | 3                                                      | 3                                                   | □                                                   |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020930]智慧製造概論<br>Introduction to Smart Manufacturing     |                 |             |                 | 3           | 3                                                                                  | [00020625]電腦立體製圖*<br>computer stereographic drawing |             |                 |             | 3                                                    | 3                                                    | □           |                 |             |                                                        | □                                                   |                                                     |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | □                                                           |                 |             |                 |             | [00020624]自動控制與實習*<br>Automatic control and internship                             |                                                     |             |                 | 3           | 3                                                    | □                                                    |             |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | □                                                           |                 |             |                 |             | [00020623]校外實習(二)*<br>Extracurricular Practice(2)                                  |                                                     |             |                 | 6           | 6                                                    | □                                                    |             |                 |             | □                                                      |                                                     |                                                     |                 |             |               |             |               |                |    |                  |  |
| 小計 / Subtotal                                                                                                                                                              |                                                             | 6               | 6           | 6               | 6           | 小計 / Subtotal                                                                      | 12                                                  | 12          | 12              | 12          | 小計 / Subtotal                                        | 9                                                    | 9           | 3               | 3           | 小計 / Subtotal                                          |                                                     |                                                     |                 |             |               | 48          | 48            | 50             | 50 |                  |  |
| 專業選修<br>Professional<br>Elective<br>Courses                                                                                                                                | [00020898]綠色能源與應用<br>Green Energy and Applications          | 3               | 3           |                 |             | [00021037]產業資料庫應用與管理實務<br>Industrial Database Applications and Management Practice | 6                                                   | 6           |                 |             | [00020932]機電整合<br>Mechatronics                       | 3                                                    | 3           |                 |             | [00020908]電腦繪圖<br>computer graphics                    | 3                                                   | 3                                                   |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020630]製造程序<br>manufacturing process                     | 3               | 3           |                 |             | [00020998]應用力學<br>Mechanics                                                        | 3                                                   | 3           |                 |             | [00020657]單晶片實習*<br>Single chip internship           | 3                                                    | 3           |                 |             | [00020659]資料探勘*<br>data mining                         | 3                                                   | 3                                                   |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020631]機械加工實務*<br>Machining Practice                     | 3               | 3           |                 |             | [00020995]職場實務<br>Workplace Practice                                               | 3                                                   | 3           |                 |             | [00020907]多媒體應用<br>Multimedia software applications  | 3                                                    | 3           |                 |             | [00020661]電腦輔助機構設計*<br>computer aided mechanism design | 3                                                   | 3                                                   |                 |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00021007]智慧車輛<br>Smart Vehicles                            |                 |             |                 | 3           | 3                                                                                  | [00020996]企業參訪實務<br>Industrial Visit Practice       | 3           | 3               |             |                                                      | [00021002]數控工具機與實習<br>CNC Machine Tools and Practice | 3           | 3               |             |                                                        | [00020907]多媒體應用<br>Multimedia software applications | 3                                                   | 3               |             |               |             |               |                |    |                  |  |
|                                                                                                                                                                            | [00020993]職場倫理                                              |                 |             |                 | 2           | 2                                                                                  | [00020997]電路學<br>Circuit Theory                     | 3           | 3               |             |                                                      | [00020642]機器人與實習*                                    | 3           | 3               |             |                                                        | [00020647]逆向工程與快速原型*                                | 3                                                   | 3               |             |               |             |               |                |    |                  |  |

|                  |                                          |   |   |   |                                                                                 |                                          |    |    |    |                                                                                 |               |    |    |    |    |                                                                          |    |    |    |    |     |     |    |    |  |  |
|------------------|------------------------------------------|---|---|---|---------------------------------------------------------------------------------|------------------------------------------|----|----|----|---------------------------------------------------------------------------------|---------------|----|----|----|----|--------------------------------------------------------------------------|----|----|----|----|-----|-----|----|----|--|--|
| Workplace Ethics |                                          |   |   |   |                                                                                 |                                          |    |    |    | Robotics and Internships                                                        |               |    |    |    |    | Reverse engineering and rapid prototyping                                |    |    |    |    |     |     |    |    |  |  |
|                  | [00021006]工廠實習二<br>Factory Internship II |   |   | 3 | 3                                                                               | [00020999]工程管理<br>Engineering Management | 2  | 2  |    | [00020656]GPT演算*<br>GPT Computation                                             | 3             | 3  |    |    |    | [00020655]雲端技術與應用*<br>Cloud technology and applications                  | 3  | 3  |    |    |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00021003]專案企劃實務<br>Project Planning                                            |                                          |    | 3  | 3  | [00020908]電腦繪圖<br>computer graphics                                             | 3             | 3  |    |    |    | [00020665]智慧物流<br>Smart Logistics                                        | 3  | 3  |    |    |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00020931]感測技術<br>Sensing technology                                            |                                          |    | 3  | 3  | [00020901]專業證照技術與實作(二)<br>Professional certification technology and practice(2) | 6             | 6  |    |    |    | [00020995]職場實務<br>Workplace Practice                                     | 3  | 3  |    |    |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00020651]網路安全與管理*<br>Network Security and Management                           |                                          |    | 3  | 3  | [00020637]電腦輔助設計*<br>computer aided design                                      | 3             | 3  |    |    |    | [00020996]企業參訪實務<br>Industrial Visit Practice                            | 3  | 3  |    |    |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00020900]專業證照技術與實作(一)<br>Professional certification technology and practice(1) |                                          |    | 6  | 6  | [00020632]生成式AI應用*<br>Generative AI applications                                | 3             | 3  |    |    |    | [00020643]校外實習(五)*<br>Extracurricular Practice(5)                        | 6  | 6  |    |    |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00021000]電子學<br>Electronics                                                    |                                          |    | 3  | 3  | [00021005]大數據分析<br>big data analysis                                            |               |    | 3  | 3  |    | [00020648]電腦整合製造*<br>computer integrated manufacturing                   |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00020633]工程材料<br>Engineering Materials                                         |                                          |    | 3  | 3  | [00020640]電腦輔助製造<br>Computer Aided Manufacturing                                |               |    | 3  | 3  |    | [00020664]嵌入式系統設計<br>Embedded system design                              |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00021004]創新設計實務<br>Practical Innovation and Design                             |                                          |    | 3  | 3  | [00021003]專案企劃實務<br>Practical Project Planning                                  |               |    | 3  | 3  |    | [00020646]校外實習(六)*<br>Extracurricular Practice(6)                        |    |    | 6  | 6  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | [00021001]材料力學<br>Mechanics of Materials                                        |                                          |    | 3  | 3  | [00020658]機械工程實驗*<br>Mechanical Engineering Experiment                          |               |    | 3  | 3  |    | [00020662]工業4.0系統設計<br>Industry 4.0 system design                        |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00020639]校外實習(四)*<br>Extracurricular Practice(4)                               |               |    | 6  | 6  |    | [00020909]專利創造實務<br>Patent creation practice                             |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00020644]電腦輔助工程分析*<br>Computer Aided Engineering Analysis                      |               |    | 3  | 3  |    | [00021038]產業文書與報表處理實務<br>Industrial Documentation and Reporting Practice |    |    | 6  | 6  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00020641]機器視覺與影像處理*<br>Machine Vision and Image Processing                     |               |    | 3  | 3  |    | [00020912]熱傳工程與應用<br>Heat transfer engineering and applications          |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00020910]專業英文<br>Professional English                                          |               |    | 3  | 3  |    | [00020911]專案管理<br>project management                                     |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00021004]創新設計實務<br>Practical Innovation and Design                             |               |    | 3  | 3  |    | [00020910]專業英文<br>Professional English                                   |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00021030]專利創作實務<br>Patent creation practice                                    |               |    | 3  | 3  |    | [00020654]機械設計<br>Mechanical design                                      |    |    | 3  | 3  |     |     |    |    |  |  |
|                  | □                                        |   |   |   | □                                                                               |                                          |    |    |    | [00020638]機器學習*<br>machine learning                                             |               |    | 3  | 3  |    | □                                                                        |    |    |    |    |     |     |    |    |  |  |
| 小計 / Subtotal    |                                          | 9 | 9 | 8 | 8                                                                               | 小計 / Subtotal                            | 20 | 20 | 27 | 27                                                                              | 小計 / Subtotal | 33 | 33 | 36 | 36 | 小計 / Subtotal                                                            | 33 | 33 | 36 | 36 | 202 | 202 | 64 | 64 |  |  |

|                                |                                                     |    |    |    |            |    |    |    |    |            |    |    |    |    |            |    |    |    |    |     |     |     |     |
|--------------------------------|-----------------------------------------------------|----|----|----|------------|----|----|----|----|------------|----|----|----|----|------------|----|----|----|----|-----|-----|-----|-----|
| 合計 / Total                     | 20                                                  | 25 | 19 | 24 | 合計 / Total | 34 | 34 | 41 | 41 | 合計 / Total | 42 | 42 | 39 | 39 | 合計 / Total | 33 | 33 | 36 | 36 | 264 | 274 | 128 | 138 |
| 畢業門檻 / Graduation Requirements | 1. B1以上華語測驗證書                                       |    |    |    |            |    |    |    |    |            |    |    |    |    |            |    |    |    |    |     |     |     |     |
|                                | 2. 未修滿校外實習(一)~(三)課程者，需依規定將課程學分補足且取得勞動部(原勞委會)專業證照一張。 |    |    |    |            |    |    |    |    |            |    |    |    |    |            |    |    |    |    |     |     |     |     |
| 備註 / Remarks                   | 校外實習(一)-(六)6學分，皆需完成每週20小時校外實習實際時數。                  |    |    |    |            |    |    |    |    |            |    |    |    |    |            |    |    |    |    |     |     |     |     |

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