| $1^{\text {st }}$ year(112) |  |  |  |  |  | $2^{\text {nd }}$ year(113) |  |  |  |  |  | $3^{\text {rd }} \mathrm{year}(114)$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Course |  |  |  |  |  | Course | $\begin{gathered} \begin{array}{c} \text { 1st } \\ \text { semester } \end{array} \end{gathered}$ |  | $\begin{gathered} 2^{\text {ad }} \\ \text { semester } \end{gathered}$ |  |  | Course | $\begin{gathered} 1 \text { 1st } \\ \text { semester } \end{gathered}$ |  | $\begin{gathered} 2^{2^{m a}} \\ \text { semester } \end{gathered}$ |  |
|  |  | Cr. | hr. | cr. | hr. |  |  | Cr. | hr. | Cr. | hr. |  |  | Cr. | hr. | Cr. | hr. |
| MUST Core Required Courses | Physical Education | 1 | 2 | 1 | 2 | MUST Core Required Courses | Classified General Education | 2 | 2 | 2 | 2 | MUST Core <br> Required Courses |  |  |  |  |  |
|  | Classified General Education | 2 | 2 | 2 | 2 |  | Classified General Education | 2 | 2 |  |  |  |  |  |  |  |  |
|  | Classified General Education | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Subtotal | 5 | 6 | 5 | 6 |  | Subtotal | 4 | 4 | 2 | 2 |  | Subtotal |  |  |  |  |
| School <br> Professional Required Courses | Calculus (I) (II) | 3 | 3 | 3 | 3 | School <br> Professional Required Courses | Technical English (III) (IV) | 2 | 2 | 2 | 2 | School <br> Professional Required Courses |  |  |  |  |  |
|  | Physics (I) (II) | 2 | 2 | 2 | 2 |  | Ethics for Engineers | 2 | 2 |  |  |  |  |  |  |  |  |
|  | Applied Chinese(I)(II) | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Technical English(I)(II) | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Introduction to Programming | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Introduction to Artificial Intelligence |  |  | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Subtotal | 11 | 11 | 11 | 11 |  | Subtotal | 4 | 4 | 2 | 2 |  | Subtotal |  |  |  |  |
| Compulsory courses | Introduction to Wind Power | 3 | 3 |  |  | Compulsory courses | Engineering Mathematics I | 3 | 3 |  |  | Compulsory courses | Power System | 3 | 3 |  |  |
|  | Green Energy Technology | 3 | 3 |  |  |  | Engineering Mechanics | 3 | 3 |  |  |  | Offshore Wind Farm Structures and Maritime Engineering | 3 | 3 |  |  |
|  | Introduction to Mechatronics |  |  | 2 | 2 |  | Electronics I | 3 | 3 |  |  |  | Programmable Logic Controller |  |  | 3 | 3 |
|  | Circuit Theory I |  |  | 3 | 3 |  | Offshore \& Onshore Wind <br> Turbine Foundation | 3 | 3 |  |  |  | Special Practical Projects (I)(II) | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |  | Electrical Machinery Practice |  |  | 1 | 2 |  | Offshore \& Onshore Wind Operations and Maintenance Engineering |  |  | 3 | 3 |
|  |  |  |  |  |  |  | Electrical Machinery |  |  | 3 | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Wind Power System Practice |  |  | 3 | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Computer Aided Drawing I |  |  | 3 | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Building Information Modeling |  |  | 3 | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Subtotal | 6 | 6 | 5 | 5 |  | Subtotal | 12 | 12 | 13 | 14 |  | Subtotal | 7 | 7 | 4 | 4 |
| Elective Courses |  |  |  |  |  | Elective Courses |  |  |  |  |  | Elective Courses | Industrial Safety and Health | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Signal and System | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Microcontroller Practice | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Power Generation System and Energy Conversion | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Electric Distribution Engineering | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Semiconductor Manufacturing Process and Equipment | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Circuit Theory II | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Computer Aided Drawing II | 3 | 3 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Smart Environmental Monitoring Practices |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Microgrid Systems Design |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Non-destructive Testing Practice |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Green Building |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Power Electronics Practices |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Smart Grid |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Engineering Mathematics II |  |  | 3 | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Electronics II |  |  | 3 | 3 |


| $4^{\text {th }}$ year(115) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Course | $\begin{gathered} \text { 1st } \\ \text { semester } \end{gathered}$ |  | $\begin{gathered} 2^{\text {nd }} \\ \text { semester } \end{gathered}$ |  |
|  |  | Cr. | hr. | Cr. | hr. |
| MUST Core <br> Required Courses |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Subtotal |  |  |  |  |
| School <br> Professional Required Courses |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Subtotal |  |  |  |  |
| Compulsory courses | Off-Campus Practice Training |  |  | 9 | 9 |
|  |  |  |  |  |  |
|  | Subtotal | 0 | 0 | 9 | 9 |
| Elective Courses | Industrial Practice Training | 9 | 9 |  |  |
|  | Human-Machine Interface and Graphics Monitoring Technology | 3 | 3 |  |  |
|  | Measurement Technology and Applications | 3 | 3 |  |  |
|  | Power Load Management | 3 | 3 |  |  |
|  | Electric Motor Control Practices | 3 | 3 |  |  |
|  | Environmental Impact Assessment | 3 | 3 |  |  |
|  | Project Procurement \& Contract Award |  |  | 3 | 3 |
|  | Geographic Information System Practice |  |  | 3 | 3 |
|  | Project management |  |  | 3 | 3 |
|  | Real-time Control Practices |  |  | 3 | 3 |
|  | Control System Design |  |  | 3 | 3 |
|  | Robotics Engineering |  |  | 3 | 3 |
|  |  |  |  |  |  |

## Cr./hr.=Credit/hour

## Remarks

1. According to university regulations, students are required to meet the graduation requirement of basic language proficiency and professional skills.
2. Students shall take 4 hours Service Education courses ( 0 credits) in the first and second semester of the first academic year
3. In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the $4^{\text {th }}$ year
4. Minimum credits required for graduation: 128 credits including $\mathbf{1 0 3}$ compulsory credits, and at least $\mathbf{2 5}$ elective credits
( $\mathbf{1 3}$ interdepartmental credits are included)
5. Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent of the second year of high school study of the ROC's high school sophomore level, or with a high school equivalent degree, need to take 140 credits including $\mathbf{1 0 3}$ compulsory credits, and at least $\mathbf{3 7}$ elective credits (including inter-departmental elective credits ), while elective professional course credits shall not be fewer
than $\mathbf{2 5}$. The program can be extended up to 3 academic years.
6.Students should take off-campus internship courses, and the relevant measures are
handled in accordance with the Implementation of Off-campus Internship
Teaching for Students in the Department of Mechanical Engineering"
6. The optional off-campus intership in the first semester of the fourth grade is 9 credits

The subject name is Wind Power Practice, which is limited to those who participate in the off-campus internship.
8. Elective courses are subject to change if necessary

