



# **COURSES TAKEN IN MECHANICAL ENGINEERING**

Academic Year 2018/2019

## **CENTER OF EXCELLENCE IN TEACHING**

Welcome to President University, where tomorrow's leaders come together. You will be entering dynamic university environments where international students make up over 10% of the student population so your experience will be truly international. You will be able to learn and share not only with your Indonesia peers but also those from other countries.

Our strong industry and professional partnership – with more than 1700 multinational companies from 30 countries [USA, Canada, UK, Germany, France, The Netherlands, China, Korea, Japan, Taiwan, Malaysia, Singapore, Australia] at JABABEKA INDUSTRIAL ESTATE, will ensure our graduates will leave with the skills and knowledge employment value most. The following is the key and brief courses will be taken for each study program.

## **COURSE GUIDELINE**

### **CORES**

- |   |  |
|---|--|
| 1. Advanced Manufacture                       | 11. Sustainable Energy Systems,<br>Resources and Usage |
| 2. Design of Machine Elements                 | 12. Turbomachinery                                     |
| 3. Thermal-Fluid Engineering                  | 13. Finite Element Analysis                            |
| 4. Heat Treatment and Metallography           | 14. CAD/CAM/CAE  |
| 5. Destructive and Non-Destructive<br>Testing | 15. CNC Programming                                    |
| 6. Welding Technology                         | 16. Automobile Systems                                 |
| 7. Material Treatment in Industry             | 17. Hydraulics and Pneumatics                          |
| 8. Power Engineering                          | 18. Mechatronics                                       |
| 9. Energy Conversion                          | 19. Introduction to Robotics                           |
| 10. Solar Energy                              | 20. Micromachining                                     |

