

Department of Automotive Engineering

The Division of Automotive Engineering not only offers the fundamental theories of engineering, from design to development and manufacturing, that engineers need to have in the automotive industry but also provides the students with the theoretical and practical knowledge required by the industry due to future eco-friendly automobiles such as new power units and fuel cells, CAD/CAM, automobile system control, structural analysis using CAE, heat and fluid flow analysis using CFD, and various experiments to foster technical manpower with theoretical knowledge and practical skills.

Information

ADDRESS: (26403) Department of Automotive Engineering,
Division of Automotive Engineering,
Gangneung-Wonju National University, 150,
Namwon-ro, Heungeop-myeon, Wonju-Si,
Gangwon-do, Korea

TELEPHONE: +82-33-760-8760

FAX: +82-33-760-8761

Professor Introduction

| NAME | MAJOR | TELEPHONE | E-MAIL |
|----------------|------------------------------------|-----------------|-------------------|
| Kim, Chul- Soo | Thermal and Combustion Engineering | +82-33-760-8762 | Kcsi@gwnu.ac.kr |
| Oh, Ick Soo | CAD/CAM, Digital Manufacturing | +82-33-760-8763 | isoh@gwnu.ac.kr |
| Kim, Sei- Yoon | System Control | +82-33-760-8764 | seyoon@gwnu.ac.kr |
| Choi, Bok-Lok | Structural | +82-33-760-876 | blchoi@gwnu.ac.kr |

| | | | |
|----------------|--|---------------------|---------------------|
| | Mechanics and CAE | 5 | |
| Lee, Jong-Chul | Power Engineering(Fluid Mechanics) | +82-33-760-876 6 | jcleee01@gwnu.ac.kr |

Curriculum

| Course Code | Course Title | Credit |
|-------------|--|--------|
| 810.501 | Research in Power Engineering | 3-3-0 |
| 810.502 | Topics in CAD/CAM | 3-3-0 |
| 810.503 | Advanced Automatic Control | 3-3-0 |
| 810.505 | Advanced Fluid Mechanics | 3-3-0 |
| 810.506 | Advanced Solid mechanics | 3-3-0 |
| 810.504 | Finite Element Analysis | 3-3-0 |
| 810.601 | Advanced Thermodynamics | 3-3-0 |
| 810.602 | Advanced Heat Transfer | 3-3-0 |
| 810.603 | Advanced Refrigeration Engineering | 3-3-0 |
| 810.605 | Advanced Manufacturing Technology | 3-3-0 |
| 810.607 | Computer Aided Design | 3-3-0 |
| 810.608 | Advanced Automatic Production System | 3-3-0 |
| 810.609 | Digital Control | 3-3-0 |
| 810.610 | System Analysis and Experiment | 3-2-2 |
| 810.611 | Advanced Instrumentation and Measurement System | 3-3-0 |
| 810.612 | Study of Mechatronic System | 3-3-0 |
| 810.613 | Theory of Elasticity | 3-3-0 |
| 810.614 | Advanced Structural Analysis | 3-3-0 |
| 810.615 | Advanced Vehicle Dynamics | 3-3-0 |
| 810.616 | Theory of Fatigue Strength | 3-3-0 |
| 810.617 | Computational Fluid Dynamics | 3-3-0 |
| 810.618 | Multiphysics systems and analyses | 3-2-2 |
| 810.619 | Nanofluids science and technology | 3-3-0 |
| 810.620 | Fuel cell systems and experiments | 3-2-2 |
| 810.622 | Applied Geometric Modeling | 3-3-0 |
| 810.623 | Mechanical Behavior of Materials | 3-3-0 |
| 810.624 | Research problems for CFD | 3-2-2 |
| 810.625 | Research study in eco-Power train | 3-3-0 |
| 810.626 | Refrigeration Engineering in eco-Vehicle | 3-3-0 |
| 810.627 | Computer Programming Application | 3-3-0 |
| 810.628 | Human Factors & Human Centered Design | 3-3-0 |

| | | |
|---------|--|-------|
| 810.629 | Advanced Turbomachinery | 3-3-0 |
| 810.630 | Fundamentals of Thermal Plasmas | 3-3-0 |
| 810.631 | Advanced powertrain Engineering in low carbon vehicles | 3-3-0 |
| 810.632 | Advanced Thermal Systems Engineering | 3-3-0 |
| 810.633 | Application programing | 3-3-0 |
| 810.634 | Fluid Power Control | 3-3-0 |
| 810.635 | Special Topics of Hydraulic and Pneumatic Control | 3-3-0 |
| 810.636 | Research for CAE Problems | 3-2-2 |
| 810.637 | Flow Visualization | 3-2-2 |
| 810.638 | Design of Automotive Aerodynamics | 3-2-2 |