PhD Mechanical Engineering Core Courses

Course Outline: PhD Mechanical Engineering Core Courses

| Course No. | Course Title |
|------------|-------------------------------------|
| ME-6001 | Advanced Engineering Mathematics |
| ME-6002 | Simulation and Modeling |
| ME-6003 | Advanced Statistics and Data Mining |

^{*}Common to all Mechanical, Industrial Engineering and Engineering Management students. Specialization in Thermo Fluids

| Course No. | Course Title |
|------------|---|
| ME-6101 | Computational Fluid Dynamics |
| ME-6102 | Advanced Fluid Mechanics |
| ME-6103 | Advanced Heat Transfer |
| ME-6104 | Advanced Topics in Thermal System Engineering |

Specialization in Applied Mechanics and Design

| Course No. | Course Title |
|------------|---|
| ME-6201 | Advanced Mechanical Vibration |
| ME-6202 | Finite Element Analysis |
| ME-6203 | Advanced Computer Aided Design |
| ME-6204 | Advanced Topics in Applied Mechanics and Design |

Specialization in Energy Engineering

| Course No. | Course Title |
|------------|---------------------------------------|
| ME-6301 | Renewable Energy Technologies |
| ME-6302 | Energy Systems Modeling & Analysis |
| ME-6303 | Advanced Nuclear Engineering |
| ME-6304 | Advanced Topics in Energy Engineering |