

# Semester Program

## Academic Discipline

# Engine Management

### GENERAL OBJECTIVE:

Contribute to the theoretical training of the student, emphasizing, however, the practical results resulting from the theory, such as its applications in engine calibration development, conducting vehicular tests and critical analysis of test results and evaluation of performance of components and vehicles.

### SPECIFIC OBJECTIVES:

- a) Know the knowledge of internal combustion engines and electrical and sus configurations.
- b) Evaluations of strategies and operation of engines and components.
- c) Development of new engine operating technologies.

### PROGRAM:

1. Initial engine calibration concepts
2. Presentation in vehicles of the engine calibration environment, (variables, graphs, and nomenclature)
3. Presentation of the theory of stoichiometric calculation and vehicle verification of the calibration maps of the stoichiometric calculation.
4. Vehicle test in roller dynamometer.
5. Students' presentation on independent injection control systems
6. Independent injection control systems
7. Analysis of the characteristic motor curve