

# COURSE GUIDE – short form

Academic year 2014 – 2015

|                          |  |                       |    |               |   |             |                  |                         |   |
|--------------------------|--|-----------------------|----|---------------|---|-------------|------------------|-------------------------|---|
| Course name <sup>1</sup> | Current systems in the construction of road vehicles |                       |    |               |   | Course code | MSPCR.DI.DS. 106 |                         |   |
| Course type <sup>2</sup> | DS   | Category <sup>3</sup> | DI | Year of study | I | Semester    | 2                | Number of credit points | 7 |

|                |                                |  |    |   |    |   |    |  |
|----------------|--------------------------------|--|----|---|----|---|----|--|
| Faculty        | Mechanical Engineering         | Number of teaching and learning hours <sup>4</sup> |    |   |    |   |    |  |
| Field          | Automotive Engineering         | Total  | L  | T | LB | P | IS |  |
| Specialization | Traffic safety and performance | 126  | 28 |   | 7  | 7 | 84 |  |

|   |             |                        |
|---|-------------|------------------------|
| Pre-requisites from the curriculum <sup>5</sup> | Compulsory  |                        |
|   | Recommended | Dynamics road vehicles |

|                                  |   |
|----------------------------------|---|
| General objective <sup>6</sup>   | Current systems in the construction of road vehicles is a discipline that aims at presenting the rapid advances and modern aspects of the construction of road vehicles with particular power systems electronically controlled automatic transmission and continuous electric power steering and brake boosters, ABS braking systems and semi-active suspension , etc.     |
| Specific objectives <sup>7</sup> | Course and pursue applications of assimilation by master basic knowledge of food systems injection May, hydraulic torque converters and hidroambreiajele, automatic transmission, CVT and IVT, lockable differentials and limited slip, braking systems, steering systems servo-controlled and active, highlighting the role and importance of road safety and performance. |
| Course description <sup>8</sup>  | <p>The course includes the following major sections:</p> <ul style="list-style-type: none"> <li>-Injection equipment for diesel engines;</li> <li>-Automating drive gearboxes</li> <li>-Hidroambreiaje and hidrotransformatoare</li> <li>-Gearboxes continue</li> <li>-Power steering, brakes, suspensions</li> </ul>   |

| Assessment            |  |      | Schedule <sup>9</sup> | Percentage of the final grade (minimum grade) <sup>10</sup> |
|-----------------------|--|------|-----------------------|---|
| Continuous assessment | Class tests along the semester   |      |                       | %   |
|                       | Activity during tutorials/laboratory works/projects/practical work   |      | Week 1 – week 14      | 20%   |
|                       | Assignments  |      | Week 1 – week 14      | 30%   |
| Final assessment      | Final assessment form <sup>11</sup>  | Exam | Session               | 50%   |
|                       | Examination procedures and conditions:<br>1. ; tasks ; working conditions ; percent of the final grade 50%<br>2. ; tasks ; working conditions ; percent of the final grade 50% |      |                       |   |

|                     |               |  |
|---------------------|---------------|--|
| Course organizer    | Edward RAKOSI |  |
| Teaching assistants | Edward RAKOSI |  |

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<sup>1</sup> Course name from the curriculum

<sup>2</sup> DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

<sup>3</sup> DI – imposed, DO – optional, DL – facultative (from the curriculum)

<sup>4</sup> Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>7</sup> According to 7.2 from the Course guide – extended form

<sup>8</sup> Short description of the course, according to point 8 from the Course guide – extended form

<sup>9</sup> For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

<sup>10</sup> A minimum grade might be imposed for some assessment stages

<sup>11</sup> Exam or colloquium