

ASSIGNMENT

TEAMWORK PROJECT (BMEGEÁTMWTP)

| Title: | Investigation of an automotive fuel system utilizing AMESim | |
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| Author's name (code): Curriculum: Curriculum's code: | Esztella Éva BALLA (IRAUHN) MSc in Mechanical Engineering Modelling / spec. Fluid Mechanics 2N-MW0-FM | |
| Supervisor's name, title: Affiliation, address: | Csaba HORVÁTH, research assistant Department of Fluid Mechanics / BME | |
| Advisor's name, title: Affiliation, address: | Dr. Viktor SZENTE, assistant professor Department of Fluid Mechanics / BME | |
| Description / tasks of the project: | 1. Overview of the technical literature, with special regard to Computer-Aided Engineering (CAE) methods available and applied in automotive engine fuel system research, focusing on those which can be applied in the commercially available software package AMESim. | |
| | 2. Overview of the technical literature, with special regard to automotive engine fuel systems and current research trends. | |
| | | ment technique literature, with special which are applied in the automotive |
| | 4. Overview of the literature with regard to standard operational states which are investigated during engine testing. 5. Determination of measurement errors for certain quantities measured in automotive fuel systems. 6. Development and application of a basic model for the investigation of a diesel engine fuel system or a particular subsystem of a fuel system. 7. Documentation of the project according to the requirements of the subject. | |
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| Handed out / Deadline: Budapest, 8 th of September 2014. | 8 th of September 2014. / 12 th of December 2014. | |
| (L.S.) | supervisor | Dr. János VAD, full professor Head of Department |
| Received by: Budapest, 8 th of September 2014. | been fully accomplished. Otherwise, | erequisite subjects of the Teamwork Project have the present assignment for the Teamwork Project BEÁTMWTP are considered to be invalid. |



student



| Supervisor's declaration of acceptance: | The submitted Teamwork Project Report fulfils all requirements of the Department of Fluid Mechanics, Budapest University of Technology and Economics. | |
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| Supervisor's proposal for final grade of the report: | The proposed final grade* of the Teamwork Project Report: * Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1) | |
| Date: | Budapest, 12 th of December 2014. | |
| Name / Signature: | | |
| | | |
| | supervisor | |

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