

ASSIGNMENT

MSc MAJOR PROJECT (BMEGEÁTMWD1)

Title: **Method development for analysing water ingress into ECU housings by means of CFD tool**

Author's name (code): **Márton Miklós, STIBRÁNYI (Y0TQMP)**
Curriculum: MSc in Mechanical Engineering Modelling / Fluid Mechanics , Solid mechanics

Curriculum's code: 2N-MW0-FM, 2N-MW0-SM

Supervisor's name, title: László, NAGY, assistant research fellow
Affiliation, address: Department of Fluid Mechanics / BME

Advisor's name, title: Marcell, KISZELY, simulation engineer
Affiliation, address: Robert Bosch Magyarország Kft.

Description / tasks of the project:

1. Literature survey (description of IP standards)
2. Analysing possible root causes of water penetration
3. Investigation of state-of-the-art simulation methods which are relevant in capturing the problem (multiphase and free surface fluid modelling and capillary effect)
4. Summarize the results in the appropriate format requirements, and make a brief summary on foreign and Hungarian language.

Handed out / Deadline: **10th of February 2014. / 16th of May 2014.**
Budapest, 10th of February 2014.

(L.S.)

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supervisor

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Dr. János VAD, associate professor
Head of Department

Received by:
Budapest, 10th of February 2014.

The undersigned declares that all prerequisite subjects of the Major Project have been fully accomplished. Otherwise, the present assignment for the Major Project and the subject's registration of BMEGEÁTMWD1 are considered to be invalid.

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student



Supervisor's declaration of acceptance:	The submitted Project Report fulfils all requirements of the Department of Fluid Mechanics, Budapest University of Technology and Economics.
Supervisor's proposal for final grade of the thesis:	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"><p>The proposed final grade* of the Project Report:</p><p>.....</p></div> <p>* Please, select one: excellent (5), good (4), medium (3), acceptable (2), fail (1)</p>
Date:	Budapest, 16th of May 2014.
Name / Signature:	<p>.....</p> <p>supervisor</p>

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