

## Project work form – Soft computing methods in engineering application

|   |  |  |
|---|--|--|
| <b>Title:</b><br>Soft computing methods in engineering application  |  | <b>Project work - ID:</b><br><b>MEI-088</b>  |
| <b>Aim of the project work:</b> The aim of this work is to get familiar with soft computing methods, prepare, fulfill and evaluate measurements, draw own conclusions and present experimental results. |  |  |
| <b>Topic Announcer:</b>   | Dr. Lukács Judit (OE-BGK-MEI, assistant professor)   |  |
| <b>Supervisor(s):</b>   | Dr. Lukács Judit,<br>Dr. Horváth Richárd   |  |
| <b>Contact</b>  | <a href="mailto:lukacs.judit@bgk.uni-obuda.hu">lukacs.judit@bgk.uni-obuda.hu</a> ,<br><a href="mailto:horvath.richard@bgk.uni-obuda.hu">horvath.richard@bgk.uni-obuda.hu</a> |  |
| <b>Group size: (min./max.):</b>   | 3-5 person<br>The project work is not available under 3 applicants.  |  |
| <b>Available resources:</b>   | —  |  |
| <b>Required resources:</b>  | —  |  |
| <b>Budget:</b>  | —  |  |
| <b>Precondition(s):</b>   | <b>Mandatory:</b> -<br><b>Recommended:</b> <i>Knowledge in Matlab</i>  |  |
| <b>Schedule:</b>  | 1-4th weeks  | Getting familiar with soft computing methods   |
|   | 5-8th weeks  | Specify measurement parameters and experimental design   |
|   | 10-14th weeks  | Evaluate experimental results, draw conclusions, determine limitations, probable future goals. Prepare documentation and presentation. |
| <b>Comments:</b>  |  |  |
| <ul style="list-style-type: none"> <li>Both mechanical and mechatronics engineers can apply for the project work.</li> </ul>  |  |  |