Biomedical Systems Engineering (BMSE)

A) Catalogue CORE
1. Digital Image Processing 1
2. Medical Acoustics: Audiology and Voice
3. Medical Acoustics: Technologies for Hearing Systems and Ultrasound
4. Medical Systems 1: Quantitative Physiology and Life-Supporting Systems
5. Medical Systems 2: Medical Instrumentation and Signal Processing

B) Catalogue ELECTIVE
1. Remaining module of catalogue CORE
2. Advanced Control Systems
3. Advanced Topics in Signal Processing and Communication
4. Chemical Sensors and Actuators in Silicon Technology
5. Digital Image Processing 2
6. Digital Speech Transmission 1
7. Electronic and Optical Measurement Techniques
8. High Frequency Technology 1
9. High Frequency Technology 2
10. Identification and Control of Mechatronic Systems
11. Microfluidics – Bio-MEMS
12. Microwave Electronics
13. Modeling of Mechatronic Systems
14. Physical Sensors in Silicon Technology
15. Power Management in Integrated Circuits
16. Psychoacoustics and Methods for Listening Experiments
17. Radar Systems
18. Robotics and Man-Machine-Interaction 1
20. Speech and Audio Signal Enhancement
21. Technical Acoustics

C) Catalogue LABORATORY
1. Acoustic Virtual Reality
2. Acoustics
3. Analog and Mixed Signal Electronics
4. Analysis and Evaluation of Queues and Networks by Modern Simulation Tools
5. Digital Image Processing
6. High Frequency Technology Laboratory
7. Introduction to Medicine for Scientists and Engineers 1
8. Introduction to Medicine for Scientists and Engineers 2
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<th>Project Description</th>
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<tr>
<td>9</td>
<td>MATLAB Advanced – Digital Signal Processing</td>
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<td>10</td>
<td>Optimization Lab for Communication and Signal Processing Using MATLAB</td>
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<td>Radar Laboratory</td>
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<td>SMEAGOL – Small Embedded Advanced and Generic Objects</td>
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**D) Catalogue PROJECT**

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<tr>
<td>1</td>
<td>Medical electronics</td>
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<td>Other projects offered by FB 6</td>
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