**ADVANCED workbook**

Course assignment:

DLBINGSD01 – Smart Devices I

**Please review the validity of these workbook assignments in the course on myCampus.**

****Assignment 1: Processor performance in everyday life****

**Using three examples from your everyday life, describe which applications in everyday life will be made possible by an expected future improvement in the processor performance of smart devices!**

****Assignment 2: Features of smart devices****

**How are the five basic features of smart devices currently changing, and what development do you expect here for the future and new device generations? Also describe the developments on the basis of a practical example of your choice - indicate the effects of the developments on this example!**

****Assignment 3: Processors for smart devices****

**What three exemplary applications are you aware of that require further development of processor technology in smart devices? What new applications could you generate from this in your everyday life?**

****Assignment 4: Middleware****

**Give an example in the industrial environment where middleware is required for communication? What are the basic requirements for middleware in this application?**

****Assignment 5: Voice control****

**Which applications of voice control of smart devices do you actively use, and which other applications would you like to see in everyday life? Describe and provide an example of why you think there is no technical implementation so far.**

****Assignment 6: Context sensitivity****

**Which context-sensitive system would you design if you had the task of founding a start-up with the associated product? Explain the innovation of the product and the associated business model!**