AOV – AUTOMATION OF APPAREL PRODUCTION

SEMINAR PAPER I. + II.

Academic Year **2023/2024**

Full-time study

SEMINAR PAPER I. - TOPICS

1. **Automated sewing machines** for clothing products
   (e.g. shirts, jackets, trousers, underwear, etc.) - select 1 type of product, and **describe the automation elements** of selected sewing machines.

2. **Automated sewing machines** for technical products (e.g. automotive airbags, car seat covers etc.), **describe automation elements** of selected sewing machines.

3. **Automated ironing machines -** used in industrial clothing production. **Describe automation elements.**

4. **Air cushion transport** in clothing production
   Basic principles, possibilities of use in clothing production.

5. **Automatic handling** in clothing production using industrial robots and manipulators
   Basic principles, properties, applications.

6. **Automated equipment for cutting fabrics in clothing manufacture**
   Automated spreading machines. Automated cutter. Use of vacuum in this field.

7. **Conveyor systems** in apparel production

8. **Finished goods warehouses** in apparel production
   Possibilities of their automation.

9. **Own topic**
   In agreement with the teacher.

SEMINAR PAPER II. – COMMON TOPIC

- **Future of automation** in the clothing industry

Instruction:

- Deadline: **8th May 2024** – via e-learning
- Presentation date: **15th May 2024**
- The scope of the seminar work is about 20 pages; its division must correspond to the structure of the thesis, including the formal arrangement and citation of the literature, etc.

Liberec 19th February 2024   Ing. Petra Komárková, Ph.D.