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| Name of subject: Material knowledge of paper packaging | NEPTUN-code: RMWPA1EBNE | Number of hours: <i>lec+gs+lab</i> 1+0+3 | Credit: 4 Requirements: practice mark |
| Course coordinator: László Koltai PhD | Title: associate professor | Prerequisite: Packaging and paper technology I. | |
| Subject content: | | | |
| <p>Paper types classification, and their main characteristics. Measurement theory, the reproducibility of measurements methods, evaluation of test results.</p> <p>Introduction of general properties of the paper: production direction, transverse direction, sieve, the upper side, square weight, volume weight.</p> <p>Understanding mechanical properties of paper, snatch, expansion, fracture, laceration, methods of measuring surface hardness. Knowledge of gluing properties, writeability, COBB, PLG, etc.</p> <p>Introduce of advanced paper characteristics, flow, smoothness, etc.</p> <p>Theory of measurement of optical properties, color measurement, whiteness measurement, opacity measurements.</p> | | | |
| Competences to be mastered: | | | |
| <p>a) knowledge</p> <ul style="list-style-type: none"> - Knowledge of the most important basic materials applied in the special area of product design, their production and their application criteria. <p>b) capabilities</p> <ul style="list-style-type: none"> - Understand and use characteristic online and printed references characteristic of their special field, both in Hungarian and in at least one foreign language. - Know and apply the terminology and special expressions of their professional field in Hungarian and in at least one foreign language. - Adequate perseverance and endurance of monotony to perform practical operations. - Able to give reasons for the decisions related to the product designed, as well as to test them and support them by technical and standard investigation methods. <p>c) attitude</p> <ul style="list-style-type: none"> - Efforts to comply with legal regulations and to take the ethical rules of engineering into account during work. - Taking care of ensuring equal access opportunities in problem solving. | | | |
| Bibliography: | | | |
| 1. Dr. Koltai L. :Csomagoló- és papíripari anyagismeret I. OE Jegyzetszám: 6056 | | | |
| 2. Tiefbrunner A.: Csomagolás - Trendek és kérdések, COMPLEX KIADÓ KFT, 2010 | | | |
| 3. Papíripari szaklexikon, Papír-Press kiadó, Budapest, 2002 | | | |
| 4. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor | | | |