

Pharmaceutical Technology 3.

Topic list 2022/2023 autumn semester (B and C exams)

1. Definition of crystals, classification, crystal habits
2. Operation of crystallization
3. Kinetics of crystallization, preparation preparation of spherical crystals
4. Equipments for crystallization, examination of crystals
5. Theory of drying
6. Moisture types in solid dosage forms
7. Characteristic functions of drying process
8. Equipments for drying
9. Special drying equipments (microwave and vacuum)
10. Theory of liophilisation
11. Equipments for freeze drying
12. Drying with fluidization
13. Spray drying
14. Theory of grinding
15. Grinding methods, equipments
16. Theory of micronization, equipments
17. Operation of sieving
18. Mathematical characterization of sieving, particle size distribution
19. Theory of fluidization, equipments
20. Fluidization disorders
21. Theory of granulation, operation of granulation
22. Mechanisms of granule formation, granulation excipients
23. Equipments for granulation
24. Granules as dosage forms, examination of granules
25. Pharmaceutical technological aspects of tablet compression
26. Characterization of tablet compression process, important mathematical functions

27. Tableting machines, operation of tablet compression
28. Excipients of granulation and tablet compression
29. Tableting disorders
30. Examination of tablets
31. Operation of capsule filling, capsule types
32. Soft gelatin capsules and their manufacture
33. Hard gelatin capsules and their filling
34. Pharmaceutical technological aspects of coated dosage forms
35. Methods of coating
36. Operation of sugar coating
37. Operation of film coating and its excipients
38. Equipments for coating

Materials:

Lecture slides, notes

The Theory and Practice of Pharmaceutical Technology (Dr. Dévay Attila) – e-book

<https://gytk.pte.hu/dokumentum/16632>