

Zagadnienia na egzamin magisterski

Stopień studiów: II

Kierunek: **Mechanika i Budowa Maszyn**

Specjalność: **Product Engineering**

1. Materials – types and characteristics
2. Manufacturing technologies – types and characteristics
3. Machines – types and characteristics
4. Ways of connecting parts in mechanical engineering
5. Basic natural resources
6. Friction and wear in mechanical engineering
7. Durability and reliability of technical objects
8. Corrosion of metals and ways of protecting against it
9. General rules of exploitation of machines
10. Understanding of „product” (object or service). Expected features
11. Basics of sustainable development
12. Product Life Cycle
13. Environmentally-friendly materials
14. Major rules of eco-design
15. Rules of eco-friendly exploitation
16. 3R paradigm, types of recycling
17. Main components of LCM
18. Quality and its determinants
19. Quality management. TQM
20. Basic types of innovation
21. Benefits of a mature organisational culture
22. Basic components of a project management process
23. Eco-services – idea, examples
24. Marketing mix
25. Eco-technologies – basics, examples
26. Selection of engineering materials
27. Basic tools of LCA
28. Basics of LCC
29. Rules of protection of intellectual property
30. Computer-Aided Design systems