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Problem Definition – OrthoCAD Project

- OrthoCAD Network Centre for Endo-Prosthetic Skeletal Reconstruction Systems (Mega Medical Implants)
- Goal: Total Knee Prosthesis system for saving the limbs of patients affected by osteosarcoma by reconstructing gaps in bone after tumour resection.
- \checkmark Modular rotating hinge joint design suitable for local population
- \checkmark Manufacture using bio-compatible materials; quality with economy
- \checkmark Testing the knee prosthesis for fatigue and wear using knee simulator
- \checkmark Surgical armamentarium for measurements, resection, implantation
- \checkmark Virtual surgery software to select suitable parts, plan correct position.