



PhD Project

Project Details

Project Title	Biocompatible and high scratch resistant coatings for dental and orthopaedic applications
Project Summary	Most implant failures are directly related to poor coatings. Here, the candidate shall research upon various coatings and coating techniques for biocompatibility, better biotribo-corrosion properties and selective osseointegration.

PhD Supervisors

Role	Faculty	Academic Unit in IITD	Email ID
Supervisor 1	Dinesh Kalyanasundaram	Biomedical Engineering	Dineshk.iitdelhi@gmail.com
Supervisor 2	Deepak Kumar	CART	dkumar@itmmech.iitd.ac.in

Project requirements (Student qualifications, experience required, etc)

- Masters or Bachelors in Mechanical or Materials Science Engineering
- Masters in Physics or Applied Physics

Source of funding (IRD/FITT Project details, if any)

IRD Project (RP04101)

Role of Faculty Members involved:

Prof. Deepak Kumar will guide the candidate in coating techniques
Prof. Dinesh Kalyanasundaram will guide the candidate in evaluating biocompatibility, biotribo-corrosion properties and osseointegration.