

The Chinese University of Hong Kong
Department of Orthopaedics and Traumatology
Department of Electronic Engineering
Department of Biochemistry

Enquiry:

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2007-2008 POTENTIAL FYP TOPICS

Prof. Louis Wing Hoi CHEUNG (Department of Orthopaedics and Traumatology)

1. Low intensity pulsed ultrasound research on osteoporotic fracture

Prof. Aaron Ho Pui HO (Department of Electronic Engineering)

1. Micro-fluidic devices for optical sensor applications
2. Light-emitting-diode based surface plasmon resonance refractive index sensor
3. Metallic nano-particle enhanced florescence for bio-imaging applications

Prof. S M KUMTA (Department of Orthopaedics and Traumatology)

1. Designing Pelvic Prosthesis using a Reverse-engineering approach.
2. Biomechanical considerations in the design of Pelvic Prosthesis

Prof. Emma MACPHERSON (Department of Electronic Engineering)

1. A maximum of 2 FYP projects to PolyU students under the general title of Terahertz Imaging

Prof. Ling QIN (Department of Orthopaedics and Traumatology)

1. The role of Bioimaging Technologies in Pathophysiology of osteonecrosis and its prevention & Treatment
2. The role of Bioimaging Technologies in Pathophysiology of osteoarthritis and its prevention & Treatment
3. The role of Bioimaging Technologies in Pathophysiology of osteoporosis and its prevention & Treatment

Prof. Mary WAYE (Department of Biochemistry)

1. Development of detection methods for bacteria by surface plasmon resonance
2. Bioinformatics study of candidate genes for developmental dyslexia
3. 3. Development of methods for studying zygoty of twins