**BBE 3205 Rehabilitation and Assistive Technology**

Course Content

 Biomechanics of the musculoskeletal system: Principles of strength of materials applied to the skeletal system - Biomechanics of structures and tissues of the musculoskeletal system- Biomechanics of selected joints (Spine, Hip joint)-Selected topics in biomechanics of bone (Bone as a composite - material, bone fracture, functional adaptation of bone) -Artificial Hip Joint-Design of Upper-Limp Prosthesis-

 Biomechanics of the circulatory system: Nonlinear model of blood vessel deformation.

Requirements

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| --- | --- | --- | --- | --- |
| Hours per Semester | WeightedTotal Mark | WeightedExam Mark | WeightedContinuousAssessment Mark | CreditUnits |
| LH | PH | TH | CH | WTM | WEM | WCM | CU |
| 45 | 30 | 00 | 60 | 100 | 60 | 40 | 4 |