**BBE 3202 Clinical Engineering**

Course Content

 Hospital based clinical engineering: quality control, hospital organization.

 Acquisition of equipment: technical assessment and data analysis, inspection and test of medical instruments and systems – Inventory control: manufacturer, model and serial number, purchase date and price, warranty.

 Preventive maintenance and inspection: prolong the useful life of equipment, reduce failure, reduce operating costs, calibration and performance assurance check

 Project management: identifying user objectives and specifications, testing a prototype, documenting project results

 Training programs: exposure to hospital environment, applying engineering techniques to patient care and hospital research, how to work with medical personnel, hospital project

 Electrical safety in hospitals, Radiation protection, Biological safety, Mechanical &

environmental safety.

Requirements

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Hours per Semester | | | | Weighted  Total Mark | Weighted  Exam Mark | Weighted Continuous  Assessment Mark | Credit  Units |
| LH | PH | TH | CH | WTM | WEM | WCM | CU |
| 45 | 30 | 00 | 60 | 100 | 60 | 40 | 4 |