

## **COURSES OFFERED BY THE DEPARTMENT OF PHYSIOTHERAPY**

### **FOURTH YEAR FIRST SEMESTER**

#### **AH 4103 – Proposal Formulation and Presentation (Credits – 02)**

Frequency measuring techniques in health and medicine, Introduction to research methods in health and medical sciences, Descriptive studies, Observational analytical studies. Experimental study designs, Introduction to errors in health / medical research, Validity of results of a research, Reliability of results of a research, Causation in clinical and epidemiological research, Data collection Techniques, Tutorials.

End semester 100%.

#### **AH 4105 – Applied Statistics (Credits – 02)**

Additive and non-additive ANOVA models, Mean separation, incidence data and proportions, odds and odds ratios, models for proportions, non-parametric methods for two-sample case; independent sample and paired observations, non-parametric methods for data from designed experiments.

Assignments – 25% Midsemester -25% End semester -50%

#### **PT 4101 – Teaching in Physiotherapy (Credits – 02)**

Philosophy & psychological concepts related with teaching, domains of learning objectives & assessment procedures, methods of teaching according to the target groups, resources & environment, teach & evaluate in clinical & class room environment.

Mid semester 25%, End semester 75%.

#### **PT 4102 – Research Project in Physiotherapy (Credits – 04)**

Feasible research proposal formulating a research question or testable hypothesis, study & analyse the data that has been collected, presentation of the study & analysed data in written document, a dissertation, article to be published in a journal.

Project proposal 5%, Proposal presentation and defense 10%, Dissertation evaluation 10%, Final presentation 20%, Viva 50%, Supervisor evaluation 5%

#### **PT4103 – Physiotherapy in Burns (Credits 03 )**

Co-relate the anatomy, physiology & pathology with burns, manage the patients with burns in the stages of acute, chronic & rehabilitation, pre & post-surgical physiotherapy management, importance of nutrition in the process of healing of wounds.

Mid semester 20%, End semester 80%.

#### **AH 4104 Human Resource Management (Credits-02)**

Introduction to management, History of HRM, Definitions and principles of HRM, Introduction to SHRM, Recruitment and selection, Training & development, Performance management, Reward management, Employee relations, Industrial Law, HRM relating to performance in

health sector, Use of IT in HRM, Roles and responsibilities for HR & HR outsourcing, Group assignment on HR practices of an organization

Assignment-30%      End semester -70%

## **FOURTH YEAR SECOND SEMESTER**

### **PT 4201 – Advanced Clinical Practice in Paediatric Physiotherapy (Credits – 04)**

Apply the theoretical and practical knowledge gained, Specialized training in paediatrics units as a physiotherapist.

Continuous Assessment 20%, End semester 80%.

### **PT 4202 – Advance Clinical Practice in Musculoskeletal Physiotherapy (Credits – 04)**

Apply the theoretical and practical knowledge gained, Specialized training in Orthopaedic and Rheumatological units as a physiotherapist.

Continuous Assessment 20%, End semester 80%.

### **PT 4203 Advance Clinical Practice in Neurological Physiotherapy (Credits – 04)**

Apply the theoretical and practical knowledge gained, Specialized training in Neurology/Neurosurgery units as a physiotherapist.

Continuous Assessment 20%, End semester 80%.

### **PT 4204 – Advance Clinical Practice in Cardio respiratory, Surgical Conditions and Intensive Care Unit (Credits – 04)**

Apply the theoretical and practical knowledge gained. Specialized training in Cardiothoracic, surgical and intensive care units as a physiotherapist.

Continuous Assessment 20%, End semester 80%.