

In view of representation from the Faculty in Government colleges, in State of AP.
 The Syllabus for the 1st year in all Para medical courses is modified accordingly the
 modified Syllabus for 1st year is kept on website.

DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE (TWO YEARS COURSE)	
Syllabus for First Year	
Paper-I	<p><u>BASIC HUMAN SCIENCES</u></p> <p>A) Basics of Anatomy B) Basics of Physiology C) Basics of Bio-chemistry D) Basics of Bio-statistics</p>
Paper-II	<p><u>PHYSICAL SCIENCES</u></p> <p>A) Basics of Pathology B) Basics of Blood Banking C) Basics of Microbiology D) Basics of Central sterilization.</p>
Paper-III	<p>A) Hospital awareness, B) Familiarization of different tables/tubes in surgical dept. Surgical Awareness, Preparation of patient for surgery. C) Patient related services. D) Communication and computer skills, audio & visual aids.</p>

**DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE
(TWO YEARS COURSE)**

Syllabus for Second Year

Paper-I	<p><u>Radiotherapy Physics</u></p> <p>A) Anatomy, Physiology, Pathology & Source of Infection, Radiobiology in relation to Radiotherapy.</p> <p>B) Electrostatics, magnetism & current electricity, OHMS law Definition, Capacitance, Resistance, Electromagnetic radiation. Electrical circuits Semi conductors, Types.</p> <p>C) X and Gama Rays, production of X-Rays, quality of X-Ray beams. Absorption of X and Gamma Rays</p> <p>D) Clinical radiation generators, Radioactive Isotopes. Radioactivity and nuclear reactions, systems of dosimetry calculations</p>
Paper-II	<p>A) General Physics, Radiotherapy techniques & Medical Imaging, Respiration, Oxygen therapy.</p> <p>B) Radiography techniques, assessment and referral systems of radiotherapy. Intravenous Therapy.</p> <p>C) Radiological procedures, Radiotherapy treatment techniques.</p> <p>D) Cardiac Procedures Chemotherapy, Brachy therapy, treatment planning and isosode curves.</p>
Paper-III	<p>A) Radiation Therapy Physics, Radiation Protection, Principles of radiotherapy, Radiation Hazards, Measures for Protection from Radiation. Nebulizer Therapy.</p> <p>B) Ultrasound, CT scans, M R I scans, Cancer Screening and Prevention.</p> <p>C) Quality assurance in radiotherapy, regulatory requirement.</p> <p>D) Instrumentation Study, Instrument Measurement & Critical Care Equipment.</p>