



PRAVARA INSTITUTE OF MEDICAL SCIENCES

(DEEMED TO BE UNIVERSITY)

Loni, Tal. Rahata, Dist. Ahmednagar 413736

NAAC Re-accredited with 'A' Grade

SYLLABUS

UG Programme- Oncology

Phase II (Second MBBS) & Phase III Part 1 (Third MBBS Part One)

(Competency Based Undergraduate Curriculum will be implemented from August 2019, i.e. MBBS batch admitted for first year in 2019)

CBME MBBS Radiation Oncology Curriculum

A. Third professional Part -I teaching Hours - Theory classes

| Syllabus for MBBS III/I as per CBME | |
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| 1 Rt 1.1 Rt 1.2 Rt 1.3 | <ul style="list-style-type: none"> - Describe and discuss definition of radiation, mechanism of action of radiation, types of radiation - Describe and discuss interaction of radiation with matter & Measurement of radiation. - Enumerate, describe and discuss classification and staging of Cancer (AJCC, FIGO etc.) |
| (2.) Rt 2.1 Rt 4.4 | <ul style="list-style-type: none"> - Describe and discuss radiation protection and personnel monitoring During radiation treatment. - Describe and discuss different radioactive isotopes and their use in Cancer patients. |
| (3.) Rt 3.1 Rt 3.2 Rt 4.5 | <ul style="list-style-type: none"> - Describe and discuss cell cycle and cell survival curve, principles of Radiobiology. - Describe and discuss synergism of radiation and chemotherapy. - Describe and discuss role of radiation in management of Common malignancies in India (region specific). |
| (4.) Rt 4.1 Rt 4.2 Rt 4.3 | <ul style="list-style-type: none"> - Describe and discuss teletherapy machine (Co60/LINAC) - Enumerate, describe and discuss types of treatment plan, basic work flow of 2D/3DCRT/IMRT/IGRT - Describe and discuss Brachytherapy machine (remote after loading) |
| (5.) Rt 4.6 Rt 4.7 Rt 4.8 Rt 5.1 | <ul style="list-style-type: none"> - Describe and discuss radiotherapy for benign disease - Counsel patients regarding acute and late effects of radiation and Supportive care. - Describe ontological emergencies and palliative care. - Describe and discuss cancer prevention, screening, vaccination, Cancer registry. |

B. Third professional Part -I teaching Hours – tutorials/ seminars/integrated teaching/self-directed learning

| Sr. No | Topics |
|--------|---|
| 1. | Teletherapy machine (LINAC). Brach therapy machine (remote after loading). |
| 2. | Radiotherapy planning and treatment Planning system (TPS). |
| 3. | Head & Neck Cancer treatment planning |
| 4. | Breast Cancer treatment planning |
| 5. | Cervix Cancer. treatment planning |

C. Clinical Posting (5 days and three hours/day)

| Sr. No | Topics |
|--------|------------------------------------|
| 1. | Head & Neck Cancer Case discussion |
| 2. | Breast Cancer case discussion |
| 3. | Cervix Cancer case discussion |
| 4. | Bone/soft tissue case discussion |
| 5. | GIT/GU case discussion |

Examination Pattern not given or not mentioned in which subject it is included



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