

Faculty of Medical Science
P.K.University
Shivpuri (MP)



Syllabus and Evaluation Scheme
Certificate in Orthopedic Technician Course
(One Year)
(Effective from Session: 2020-21)

(Taken from M.P. Paramedical Council)

***Department of Paramedical
(Faculty of Medical Science)
P.K. University, Shivpuri (MP)***

ORTHOPEDIC TECHNICIAN COURSE

Paper I- 80 marks	two theory papers
Section A-40 Marks	of 80 marks each
1. Anatomy	Internal Assessment
2. Physiology	20+20 = 40 marks
3. Biochemistry	Practical Examination
Section B-	100 marks
1. Pathology	Grand Total
2. Pharmacology	300 Marks
3. Microbiology	Minimum pass marks
Paper II- 80 marks	50%

SYLLABUS

Orthopedics and Traumatology

1. Fractures and Dislocation :

Definition, fractures healing, types of fracture, General principles of treatment common fractures of upper and lower extremities.

2. General principle of Operative procedures and orthopedic appliances.

3. Management acutely injured :

First aid ran sport, resuscitation methods.

4. Operation room techniques :

Reception of patients in OT premise, scrubbing, dressing, tourniquet and its application, growing, painting and draping,
OT fumigation and UV light
OT table and attachments, autoclaving.

5. Preparation for Anesthesia:

Reception of patient, Shifting, Positioning for anesthesia, Check out procedure.

6. Sterilization:

Definition, classification of sterilizing agents, physical methods of sterilization, importance of sterilization.

7. Maintenance of equipment in operation Theatre :

Surgical diathermy, suction machine,
OT table, various lightening systems, fumigation.

8. Orthopedic Instruments:

Handling and care.

9. Sutures:

Absorbable: Surgical catgut, collagen sutures, synthetic absorbable sutures etc.

No absorbable: Silks, cotton, polypropylene, stainless steel etc.

10. Plaster and plaster techniques :

History of plaster of Paris

Properties plaster of Paris,

Preparation of plaster of paris bandages,

Different types of slabs and casts,

Correct method of Applying slabs and casts special plasters- FCB, PTB etc.

Plaster removal,

Plaster cutter and associated instruments.

11. Dressing and Dressing room techniques :

Introduction: general environment and cleanliness.

Dressing table and trolley, drums: preparation contents and maintenance, dressing material: types, preparation, use and sterilization.

Different types of solutions used for dressing viz hydrogen peroxide, providing iodine etc.

Medicated dressings viz Sofratulley, collagen etc. Basic principles of banding.

12. Fundamentals of Nursing:

Definition,

Introduction: general environment and cleanliness.

Proper disposal of ward waste,

Beds : bed making, posturing in bed, special beds viz pneumatic, waterbeds, Hygienic

care: care of skin, care of hairs and nails, oral hygiene, care of pressure points. Exercise

and activity: Principles of good posturing and body behavior, moving and lifting patient,

posture changes assisting patient in attaining ambulatory status.

Promoting urinary and intestinal eliminations: offering urinal bedpan, observations of urine and faces. Maintaining nutrition.

Maintenance fluid and electrolyte balance .

Maintenance of input/ output records.

Oral intake measures