# 'SERVING PATIENTS IS SERVING GOD' SYLLABUS OF M.S.ORTHOPAEDICS (AS PER MUHS, NASHIK)

# **Syllabus:**

- 1) Basic sciences related to locomotor system.
  - 1)Development, histology of bone, cartilage, collagen, muscles andnerve.
  - 2) Physiology of bone, cartilage, muscle &nerve.
- 2) Surgical pathology related to bones, cartilage, muscle, collagen & nerve in various congenital affections, infections, tumors and tumorous conditions and metabolic affections.
- 3) Orthopaedicdiseases
  - Metabolic bone disease
  - Bone infections Acute and Chronic
  - Congenital deformities and development conditions of upper extremity, lower extremity, spine and general defects.
  - Diseases of joints
  - Tumors of Bones
  - Orthopaedic Neurology including Spina bifida, Poliomyelitis and Cerebral palsy.
  - Diseases of muscle, fibrous tissue and vessels
  - Regional orthopaedic conditions related to neck, shoulder, elbow, wrist, hand, hip, knee, ankle, foot, back and pelvis.
  - Special subject Orthopaedic Radiology, Amputation and Disarticulation, physiotherapy and rehabilitation Recent advances in orthopaedic diseases.
- 4) General principles of Surgery and Traumatology.
  - Wound healing
  - Fracture healing
  - Rehabilitation after bone and joint injuries
  - Systematic response to injury
  - Acute trauma care and early management of injured
  - Injury to head, face, chest, abdomen, vessels &nerves.
  - Polytrauma
  - Fracture & dislocations in all bones and joints including diagnosis, classifications, various modalities of investigation and operative non- operative treatment including complications.
  - Fractures in children
  - Pathological fractures
  - Recent Advance in various fractures and management of complications
- 5) Exposure to surgical techniques & surgical approaches to various regions to manage common infection, tumor, joint diseases, different type of trauma, congenital, neurological and miscellaneous conditions.
- 6) Principles of Arthroscopy, Microsurgery & Arthroplasty.
- 7) Orthotics & Prosthetics, disability calculation, Bio-mechanics of gait, splints.
- 8) Thesis Aim is to train the PG student in research work. Topics should be in experimental, clinical, retrospective analysis or combination such that students are encouraged to do exhaustive reference work. Topics should be relevant to subject and region of work. Topics should be

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allotted within first three months of training. The candidate should complete review of literature by end of the first year and submit his completed thesis six months before the final examination. Subject of thesis should be approved by university within first sixmonths.

- 9) Under Graduate teaching in clinicalmethods.
- 10) Seminar presentation on commontopics.
- 11) Journal reading and discussion.
- 12) Case presentation, ward recordmaintenance.
- 13) Adequate experience in closed reduction of various fractures, assisting major operation, independent operative management of common orthopaedic condition.
- 14) Preparation of paper for presentation inconference.
- 15) Preparation of article forpublication.

## **EXAMINATION SCHEME FOR M.S. (ORTHO)**

Theory Exam. Total four papers, each of three hours duration and carrying 100 marks each. Total = 400 Marks.

Paper I - Basic and Applied Sciences as related to Orthopaedics

Paper II - Orthopaedics Traumatology

Paper III - Orthopaedic Diseases
Paper IV - Recent Advances -

Each paper will have two questions of 25 marks each and 5 out of 6 short notes of 10 marks each total

### Practical Exam

| Total Marks            |        | = | 400 |
|------------------------|--------|---|-----|
| Long Case 1            |        | = | 100 |
| ShortCase2             | 50 X 2 | = | 100 |
| Spot                   |        | = | 60  |
| Ward round             |        | = | 40  |
| Tables: 100            |        |   |     |
| 1) Instruments         |        | = | 25  |
| 2) X-rays              |        | = | 25  |
| 3) Specimen            |        | = | 25  |
| & Bones and sp         | lints  |   |     |
| 4) Operation           |        | = | 20  |
| 5) Communication Skill |        | = | 05  |

Passing will be 50% of the marks in each head separately i.e. Theory, Practical and internal examination. Minimum qualifying marks shall be 50% of total marks. This will be considered as your internal examination marks which will be submitted to MUHS, Nashik. Thus it is mandatory to score minimum 50% in internal examination.

#### CRITERIA FOR INTERNAL ASSESSMENT -

The internal assessment marks shall be sum total of marks obtained in Unit exit exam, six monthly written exam, thesis progress and feedback from Unit heads and Head of Academics.

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