

**Pravara Institute of Medical Sciences
(Deemed University)**

Loni Bk - 413 736, Tal. Rahata, Dist. Ahamadanagar (M.S.)

Established Under Section 3 of UGC Act 1956, Vide Govt. of India Notification
No. F.9-11/2000-U.3, dated 29th September, 2003



**Syllabus
M.S. (Orthopaedics)**

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PRAVARA INSTITUTE OF MEDICAL SCIENCES

DEPARTMENT OF SURGERY

POST - GRADUATE (M.S.-ORTHOPAEDICS) COURSE.

PRESENTATION OF SYLLABUS.

CODE:-

TITLE :-

TEACHING HOURS:- CONTINUOUS 3 YRS (6TERMS) RESIDENCY COURSE.

GOALS:-

- I) TO TRAIN THE STUDENT TO BECOME COMPETENT COMMUNITY ORIENTED SURGEON.
- II) TO STIMULATE TO PERSUE ADVANCED STUDIES & RESEARCH

OBJECTIVES :-

1. TO TRAIN A ETHICALLY SOUND AND COMPETANT,COMMUNITY ORIENTED SPECIALTY DOCTOR.
2. HE SHOULD BE ABLE TO DEAL WITH COMMONLY OCCURING SURGICAL HEALTH PROBLEMS OF THE SOCIETY.
3. HE SHOULD BE ABLE TO UNDERSTAND HIS ACADEMIC LIMITATIONS IN DEALING WITH CERTAIN CLINICAL PROBLEMS. HE SHOULD BE ABLE TO REFER SUCH PATIENTS TO PROPER CENTERS PROMPTLY.
4. HE SHOULD BECOME A PRODUCTIVE MEMBER OF THE SOCIETY.
5. HE SHOULD BE ABLE TO CARRY OUT HEALTH PROJECTS DESIGNED FOR THE BENEFIT OF SOCIETY WITH COMMITMENT.

P. G. SYLLABAS(THEORY):

Syllabus:- Theory lectures, seminars, journal reading & discussion are carried out according to the time table.

Every week, Residents will have to prepare clinical cases for discussion. Residents are required to prepare cases & research paper to be presented at local, state, national and international level conferences and for publications. Students has to complete a dissertation under the guidance of his guide. He must also keep the log-book of duties/ training. It will be checked and signed periodically. Unsatisfactory work may cause him/her to repeat the term.

Broad out line of Syllabus is given below:-

MODULE I:- BASIC SCIENCES RELATED TO ORTHOPAEDICS

1. Relevent applied embryology, anatomy, Physiology biochemistry, Pathology, Microbiology, Pharmacology, surgery & medicine.
2. Development of bone , cartilage , muscle collagen tissue & nerve
3. Physiology of bone , cartilage , muscle collagen tissue & nerve
4. surgical pathology related to bone , cartilage . muscle , collagen & nerve tissue , infections , tomourous conditions.
5. metabolic affections
6. General surgery related to orthopaedics.
7. Medicine related to orthopaedics.
8. Degenerative conditions

MODULE II :- ORTHOPAEDICS INCLUDING OPERATIVE SURGERY.

Congenital , Metabolic, degenerative, neoplastic & related orthopaedics

MODULE III:- INJURIES OF BONES & JOINTS & RECENT ADVANCES IN MANAGEMENT.

MODULE IV:-

Recent advances in orthopaedics.
orthotics & rehabilitation

***THIS JUST A BROAD OUTLINE.* the entire orthopaedics with traumatology has to be covered during the course.**

THEORY - SEMINARS.(List attached)

PRACTICALS - ACTIVE PARTICIPATION IN COMPREHENSIVE PATIENTS CARE. RECORD KEEPING.COMMUNICATION, CASE PRESENTION SEMINARS, RESEACH ACTIVITY. CME .CONFERENCES.

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**PRACTICALS - ACTIVE PARTICIPATION IN COMPREHENSIVE PATIENTS CARE.
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41. acromioclavicular disruption.
42. recurrent dislocation of patella
43. metastasis in bone
44. brachial plexus anatomy & injuries
45. carpal instability patterns & their management
46. anatomy of extensor expansion & management of 2nd metacarpophalangeal dislocation
47. rheumatoid arthritis
48. avascular necrosis
49. osteoarthritis of hip
50. osteoarthritis of knee
51. osteoarthritis of ankle
52. kyphoscoliosis
53. anatomy of quadriceps expansion
54. internal derangement of knee joint
55. arthroscopy – indications & details in brief
56. osteotomies around hip – types , indications & biomechanics.
57. arthroplasty of hip – indications , biomechanics & recent advances
58. arthroplasty of knee – indications , biomechanics & recent advances
59. surface arthroplasty & its future
60. instrumentation in spinal surgery
61. indications , types of amputations
62. management of polytrauma
63. adult respiratory distress syndrome
64. oleptic shock
65. non union of long bones & its management
66. immunocompromised diseases in orthopaedics
67. supracondylar fracture humerus
68. proximal humeral fracture
69. proximal femoral fracture
70. proximal tibial fracture
71. osteomyelitis
72. traumatic hip dislocation
73. Bennett's fracture dislocation
74. chest injuries
75. blunt abdominal trauma.
76. diabetes in orthopaedics
77. chemotherapy in malignant bone tumours
78. role of antibiotics in orthopaedic surgery
79. whiplash injury of cervical spine.
80. scalenus ant. syndrome.
81. anatomy of tendo achilles , treatment of rupture of tendoachilles
82. anatomy of hip & different surgical approaches to hip
83. anatomy of shoulder & different surgical approaches to shoulder.
84. anatomy & function of menisci & treatment of meniscal injuries
85. biomechanics , indications & methodology of internal fixation of bones
86. shoulder arthroplasty & its future
87. elbow arthroplasty & its future
88. peripheral nerve injuries – radial , ulnar nerve

- 89. management of hensen's claw hand
- 90. skin flaps
- 91. traction & plaster techniques & splints
- 92. frozen shoulder

D. JOURNAL CLUB :- every wednesday 3 to 5 pm.

Articles from journals available pertaining to burning topics.

E. CLINICAL MEETING :- twice in a week, 3 pm to 5pm
clinical cases discussed by postgraduate students with teachers

F. C.M.E CONDUCTED BY DEPT.:-

G. GUEST LECTURE CONDUCTED BY DEPT :-
guest lectures are invited to talk on different orthopaedic problems, & post graduate student interact with them.

DEPARTMENT OF ORTHOPAEDICS

POST - GRADUATE M.S.(ORTHO) COURSE.

**** EXAMINATION PATTERN ****

Theory :- 400 Marks (4 Papers.)

- I. BASIC SCIENCES RELATED TO ORTHOPAEDICS
- II. ORTHOPAEDICS INCLUDING OPERATIVE SURGERY
- III. INJURIES OF BONES & JOINTS & RECENT ADVANCES IN MANAGEMENT
- IV. RECENT ADVANCES IN ORTHOPAEDICS, ORTHOTICS & REHABILITATION

PATTERN AND MARKS DISTRIBUTION :- 4 PAPERS (DIPLOMA - 3 PAPERS)

Q. 1	-	Full question	20 Marks
Q. 2	-	Full question	20 Marks
Q. 3	-	Full question	20 Marks
Q. 4	-	Notes -	40 Marks (4 * 10marks)

PRACTICAL EXAMINATION:- 400 Marks

Long case	100Marks
Short case	50 Marks
Short case	50Marks
Short case	50 Marks

Ward round examination 50 Marks

Tables :-

a. Anatomy - Hard parts.	25 Marks
b. Pathology-	25 Marks
c. X-ray & Investigations	25Marks
d. Instrument & Operation	25Marks

400 Marks

* Dissertation will have grades.

- Log book mandatory. Reviewed every Six Months.

BOOKS RECOMMENDED

<i>SRNO</i>	<i>TITLE</i>	<i>AUTHOR</i>
1.	LAST'S ANATOMY	<i>LAST</i>
2.	MOORE'S EMBRYOLOGY	<i>MOORE</i>
3.	ROBBINS PATHOLOGY	KUMAR
4.	TEXTBOOK OF MEDICINE	DAVIDSON
5.	TEXTBOOK OF SURGERY	LOVE & BELLY
6.	CAMPBELL'S OPERATIVE ORTHOPAEDICS VOL I - IV	S. TERRY CANALE
7.	ROCKWOOD & GREENS VOL I -III	ROCKWOOD, GREEN
8.	MERCERS ORTHOPAEDIC SURGERY	ANIL DHAL
9.	TEXT BOOK OF ORTHOPAEDICS	TUREK
10	PAEDIATRIC ORTHOPAEDICS	TACHDJIAN
11.	FRACTURE & JOINT INJURIES	WATSON & JONES
12.	CLINICAL ORTHOPAEDIC EXAMINATION	S. PANDEY
13.	CLINICAL SURGERY	S.DAS

** THIS IS JUST A GUIDE. STUDENTS ARE REQUIRED TO REFER TO OTHER STANDERD BOOKS DEDICATED TO PERTICULAR SYSTEMS. HE IS ALSO REQUIRED TO REFER TO VARIOUS RELEVANT JOURNALS, MONOGRAPHS, RECENT ADVANCES PUBLISHED FROM TIME TO TIME.

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