



Hindi Vidya Prachar Samiti's

Ramniranjan Jhunjhunwala College

of Arts, Science & Commerce

(Empowered Autonomous College)

Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for the B.Sc.

Program: B.Sc. Medical Imaging Technology

Program Code: RJSUMIT

National Education Policy (NEP 2020)

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|-----------------------------|---|--------------------|
| SEMESTER | : | III |
| TITLE | : | MINOR |
| TITLE OF THE SUBJECT/COURSE | : | Ultrasound Imaging |
| COURSE CODE | : | RJMINMIT311 |
| CREDITS | : | 02 |
| DURATION | : | 30 hrs |

| LEARNING OBJECTIVES | |
|---------------------|--|
| 1 | To enable to understand various ultrasound principles. |
| 2 | To learn various USG techniques. |
| 3 | To learn mechanism of USG scanner. |

| Course Outcome No. | On completing the course, the student will be able to: | PSO Addressed | Bloom's Levels |
|--------------------|--|---------------|------------------|
| CO1 | To perform pre procedural techniques in USG scanner. | 1, 2 | BT level 2, 3 |
| CO2 | To assist radiologist and sonologist in various USG scans. | 1, 2 | BT level 2, 3 |
| CO3 | To identify various organs in USG. | 1, 2, 3 | BT level 2, 3, 4 |

| SYMIT Semester III | | | |
|--|---------------------|--|----------------|
| Course Code: RJMINMIT311 | | Title: | Credits |
| Unit | Unit name | Topics | 2 |
| I | Technical skills | USG abdomen and pelvis USG abdomen Doppler ultrasound USG Neck USG arterial and venous doppler USG liver USG abdominal aorta | 1 |
| II | Recent technologies | HIFU 4D USG | 1 |
| References <ul style="list-style-type: none"> • Ultrasound Scanning Principles and Protocols Betty Bates Tempkin | | | |