

Dr. D.Y. Patil School of Allied Health Sciences

**Dr. D. Y. Patil Vidyapeeth, Pune
(Deemed to be University)**



Programme Framework

**Bachelor of Science in Operation Theatre
and Anesthesia Technology
(B.Sc. OTT)**

First Year

First Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|---|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 101 | Introduction to Healthcare Delivery System in India | 2 | 0 | 2 | 30 | 0 | 30 | 40 | 80 | 80 | 200 |
| | Medical Terminology and record keeping (including anatomical terms) | 1 | 0 | 1 | 15 | 0 | 15 | | | | |
| | Medical Law and Ethics | 1 | 0 | 1 | 15 | 0 | 15 | | | | |
| | Introduction to Quality and patient safety | 2 | 1 | 3 | 30 | 30 | 60 | | | | |
| BOTT 102 | Basic computers and Information Science | 1 | 1 | 2 | 15 | 30 | 45 | 30 | 60 | 60 | 150 |
| | Research Methodology and Biostatistics | 2 | 1 | 3 | 30 | 30 | 60 | | | | |
| BOTT 103 | Basic English and Communication | 2 | 0 | 2 | 30 | 0 | 30 | 40 | 80 | 80 | 200 |
| | Professionalism and Values | 1 | 1 | 2 | 15 | 30 | 45 | | | | |
| | Principles of Management | 2 | 0 | 2 | 30 | 0 | 30 | | | | |
| BOTT 104 | Community orientation and clinical visit | 0 | 2 | 2 | 0 | 60 | 60 | | | | |
| Total | | 14 | 6 | 20 | 210 | 180 | 390 | 110 | 220 | 220 | 550 |

Second Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|--|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 201 | Human Anatomy and Physiology | 6 | 2 | 8 | 90 | 60 | 150 | 40 | 80 | 80 | 200 |
| BOTT 202 | Biochemistry | 2 | 1 | 3 | 30 | 30 | 60 | 40 | 80 | 80 | 200 |
| BOTT 203 | Principles of Management | 2 | 2 | 4 | 30 | 60 | 90 | 40 | 80 | 80 | 200 |
| BOTT 204 | BOTT Directed Clinical Education – part I (studentship)* | 0 | 5 | 5 | 0 | 150 | 150 | 50 | 0 | 0 | 50 |
| Total | | 10 | 10 | 20 | 150 | 300 | 450 | 170 | 240 | 240 | 650 |

Second Year Third Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|---|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 301 | Pathology | 3 | 1 | 4 | 45 | 30 | 75 | 40 | 80 | 80 | 200 |
| BOTT 302 | Medicine | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 303 | Principles of Anesthesia | 4 | 2 | 6 | 60 | 60 | 120 | 40 | 80 | 80 | 200 |
| BOTT 304 | BOTT Directed Clinical Education – Part II (studentship)* | 0 | 5 | 5 | 0 | 150 | 150 | 50 | 0 | 0 | 50 |
| Total | | 10 | 10 | 20 | 150 | 300 | 450 | 170 | 240 | 240 | 650 |

Fourth Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|--|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 401 | Clinical Pharmacology | 3 | 1 | 4 | 45 | 30 | 75 | 40 | 80 | 80 | 200 |
| BOTT 402 | Clinical Microbiology | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 403 | Basic Techniques of Anesthesia | 4 | 2 | 6 | 60 | 60 | 120 | 40 | 80 | 80 | 200 |
| BOTT 404 | BOTT Directed Clinical Education – part III (studentship)* | 0 | 5 | 5 | 0 | 150 | 150 | 50 | 0 | 0 | 50 |
| Total | | 10 | 10 | 20 | 150 | 300 | 450 | 170 | 240 | 240 | 650 |

Third Year Fifth Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|---|----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 501 | Basics of Surgical Procedures | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 502 | CSSD Procedures | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 503 | Basic Intensive Care | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 504 | BOTT Directed Clinical Education – part IV (studentship)* | 0 | 5 | 5 | 0 | 150 | 150 | 50 | 0 | 0 | 50 |
| Total | | 9 | 11 | 20 | 135 | 330 | 465 | 170 | 240 | 240 | 650 |

Sixth Semester

| Course code | Course Title | Credit | | | Hours | | | Marks | | | |
|--------------|--|----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| | | Theory | Practical | Total | Theory | Practical | Total | Internal | Theory | Practical | Total |
| BOTT 601 | Advance Anaesthetic Techniques | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 602 | Specialized Surgery and Anesthesia | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 603 | Electronics and Technology in Surgery and Anesthesia | 3 | 2 | 5 | 45 | 60 | 105 | 40 | 80 | 80 | 200 |
| BOTT 604 | BOTT Directed Clinical Education – part V (studentship)* | 0 | 5 | 5 | 0 | 150 | 150 | 50 | 0 | 0 | 50 |
| Total | | 9 | 11 | 20 | 135 | 330 | 465 | 170 | 240 | 240 | 650 |

Fourth Year Seventh and Eighth Semester

| Course Title | Hours | | |
|-----------------------------|-----------|-----------|-------|
| | Theory | Practical | Total |
| Internship and Project Work | 0 | 1200 | 1200 |
| Credits | 40 | | |