

DESH BHAGAT UNIVERSITY, MANDI GOBINDGARH

FACULTY OF ALLIED HEALTH SCIENCES

Diploma of Operation Theatre Technology

Program Outcomes (PO's):

PO1: The Course prepares the operating theatre technologist to work as a competent, reliable member of the health care team under the guidance and supervision of doctors in their delivery of patient care, training also focuses on the knowledge and skills of monitoring infection control policy and procedures in the operating theatre.

PO2: Employment opportunities can be found in hospitals in both private and public sectors as well as in independent trauma centres.

PO3: OTT graduate is encouraged to pursue further qualification to attain senior position in the professional field, also to keep abreast with the advance and new technology; the professional should opt for continuous professional education credits offered by national and international institutes.

PO4: Graduates holding the above degree have immense scope to work as assistants in operation theatres both in India and abroad in Corporate Hospitals, Medical Colleges and Nursing Home.

PO5: This sector, to function efficiently, will need more qualified allied healthcare professionals. Operation Theatres in hospitals, Emergency Care Departments as well as ICUs in hospitals are places where OT Technicians are needed.

PO6: For any operation theatre to function smoothly, OT Technicians are needed. It will give credit to Doctors and nurses for saving patients' lives by performing operations.

Course Code: DOTT-101

Title of the Course: Basic Computers and Information Science

L	T	P	Credit
1	-	-	1

Course Outcomes:

CO1: The students will be able to appreciate the role of computer technology.

CO2: The course has focus on computer organization, computer operating system and software.

CO3: The course has focus on MS windows Word processing, Excel data worksheet and Power Point presentation.

Course Code: DOTT-102

Title of the Course: Basic computers and information Science-Practical

L	T	P	Credit
-	-	2	1

Course Outcomes:

CO1: The students will be able to appreciate the role of computer technology.

CO2: The course has focus on computer organization, computer operating system and software.

CO3: The course has focus on MSwindows,Word processing,Excel data work sheet and Power Point presentation.

Course Code: DOTT-103

Title of the Course: Introduction to Quality and Patient Safety

L	T	P	Credit
2	1	-	2

Course Outcomes:

CO1: To help students understand the basic concepts of quality in health Care.

CO2: Develops skills to implement sustainable equality assurance program in the health system.

CO3: The student is also expected to learn about basic emergency care including first aid and triage.

Course Code: DOTT-104

Title of the Course: Introduction to Quality and patient safety-Practical

L	T	P	Credit
-	-	2	1

Course Outcomes:

CO1: To help students understand the basic concepts of quality in health Care.

CO2: Develop skills to implement sustainable equality assurance program in the health system.

CO3: The student is also expected to learn about basic emergency care including first aid and triage.

Course Code: DOTT-105

Title of the Course: Research Methodology and Biostatistics

L	T	P	Credit
2	-	-	2

Course Outcomes:

CO1: To help the students understand the basic principles of research and

CO2: To help the students understand the basic methods applied to draw inferences from the research findings.

CO3: Help to use to statistical tools.

Course Code: DOTT-106

Title of the Course: Research Methodology and Biostatistics-Practical

L	T	P	Credit
-	-	1	1

Course Outcomes:

CO1: To help the students understand the basic principles of research and

CO2: To help the students understand the basic methods applied to draw inferences from the research findings.

CO3: Help to use to statistical tools.

Course Code: DOTT-107

Title of the Course: Introduction to Healthcare Delivery System in India

L	T	P	Credit
3	-	-	3

Course Outcomes:

CO1: Provides the students a basic insight into the main features of Indian health care delivery system.

CO2: It compares with the other systems of the world.

CO3: Guide students for health issues

Course Code: DOTT-108**Title of the Course: Medical Terminology and Record keeping (including anatomical terms)**

L	T	P	Credit
2	-	-	2

Course Outcomes:

CO1: This course introduces the elements of medical terminology.

CO2: Emphasis is placed on building familiarity with medical words through knowledge of roots, prefixes, and suffixes.

CO3: Topics include: origin, word building, abbreviations and symbols, terminology related to the human anatomy, reading medical orders and reports, and terminology specific to the student's field of study.

Course Code: DOTT-109**Title of the Course: Medical Law and Ethics**

L	T	P	Credit
2	-	-	2

Course Outcomes:

CO1: Medical ethics has developed into a well based discipline which acts as a "bridge" between the or ethical bio ethics and the bedside.

CO2: The goals "to improve the quality of patient care by identifying, analyzing, and attempting to resolve the ethical problems that arise in practice".

CO3: It is a universal consensus that legal and ethical considerations are inherent and inseparable parts of good medical practice across the whole spectrum.

Course Code: DOTT-110**Title of the Course: Professionalism and Values**

L	T	P	Credit
1	-	-	1

Course Outcomes:

CO1: The module on professionalism will deliver the concept of what it means to be a professional and how a specialized profession is different from a usual vocation.

CO2: It also explains how professionalism in terms of health care system is and how it affects the overall patient environment.

CO3: Guides about values in profession.

Course Code: DOTT-111

Title of the Course: Principals of Management

L	T	P	Credit
2	-	-	2

Course Outcomes:

CO1: To provide knowledge about the basic principles of Management.

CO2: Help to know about managerial skills.

CO3: Guide about management in profession.

Course Code: DOTT-112

Title of the Course: CommunityOrientation and Clinical visit (including related practical to course

L	T	P	Credit
-	-	5	5

Course Outcomes:

CO1: To sensitize potential learners with essential knowledge.

CO2: This will lay a sound foundation for their learning across the under-graduate program and across their care.

CO3: Innovative teaching methods should be used to ensure the attention of a student and make them more receptive such as group activities, interactive for role plays and clinical bed-side demonstrations.

Course Code: DOTT-113

Title of the Course: Communication and Soft Skills

L	T	P	Credit
1	-	-	1

Course Outcomes:

CO1: Teaching the different methods of writing like letters, Emails, report, case study, collecting the patient data etc.

CO2: Basic compositions, journals, with a focus on paragraph form and organization.

CO3: Basic concepts & principles of good communication.

Course Code: DOTT-114

Title of the Course: Communication and Soft Skills-Practical

L	T	P	Credit
-	-	1	1

Course Outcomes:

CO1: Teaching the different methods of writing like letters, E-mails, report, case study, collecting the patient data etc.

CO2: Basic compositions, journals, with a focus on paragraph form and organization.

CO3: Basic concepts & principles of good communication.

Course Code: DOTT-201

Title of the Course: Anatomy

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organposition,orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-202

Title of the Course: Anatomy-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organposition,orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-203

Title of the Course: Physiology

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organposition,orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-204

Title of the Course: Physiology-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organ position, orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-205

Title of the Course: Lab Sciences

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: The main objective of the subject is to impart the knowledge of apparatus, units.

CO2: To impart the knowledge of volumetric analysis in the laboratory of clinical Biochemistry.

CO3: To impart the knowledge of equipment's.

Course Code: DOTT-204

Title of the Course: Lab Sciences-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: The main objective of the subject is to impart the knowledge of apparatus, units.

CO2: To impart the knowledge of volumetric analysis in the laboratory of clinical Biochemistry.

CO3: To impart the knowledge of equipment's.

Course Code: DOTT-207

Title of the Course: OTT-Directed Clinical Education-Part-I (Studentship)

L	T	P	Credit
-	-	-	-

Course Outcomes:

CO1: Students will observe the basic operations of the operation theatre while interacting with the multi-disciplinary team members involved in providing optimal care to the patients.

CO2: The student will be introduced to terminologies, equipment's.

CO3: The student will be introduced to techniques used for preparation and management of the OT.

Course Code: DOTT 301

Title of the Course: Applied Anatomy & Physiology Related to Anesthesia

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organposition, orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-302

Title of the Course: Applied Anatomy & Physiology Related to Anesthesia-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Anatomy is a key component of all education programmes for OTTs and should have a strong focus on organposition, orientation and relationships.

CO2: The topics provide the student with an understanding of the structure and relationships of the systems and organs of the body which is essential in patient positioning and accurate delivery of intervention.

CO3: Similarly Physiology provides the students with knowledge of the function of systems and organs and their relationships and underpins the understanding of how surgical intervention can modify the function and structure of outcomes.

Course Code: DOTT-303

Title of the Course: Clinical Pharmacology

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Basic knowledge regarding general methods of preparation of organic compounds.

CO2: Understand the reactions of some organic compounds.

CO3: To understand Reactivity of organic compounds.

Course Code: DOTT-304

Title of the Course: Clinical Pharmacology-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Basic knowledge regarding general methods of preparation of organic compounds.

CO2: Understand the reactions of some organic compounds.

CO3: To understand Reactivity of organic compounds.

Course Code: DOTT-305

Title of the Course: Principles of Anesthesia

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to independently handle the latest technology and high end biomedical equipment in Operation Theatre

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theater, recovery room, and post-operative intensive care procedures.

Course Code: DOTT-306

Title of the Course: Principles of Anesthesia-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to independently handle the latest technology and high end biomedical equipment in Operation Theatre

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theater, recovery room, and post-operative intensive care procedures.

Course Code: DOTT-307

Title of the Course: OTT-Directed Clinical Education-Part-II (Studentship)

L	T	P	Credit
-	-	-	-

Course Outcomes:

CO1: Students will observe the basic operations of the operation theatre while interacting with the multi-disciplinary team members involved in providing optimal care to the patients.

CO2: The student will be introduced to terminologies, equipment's.

CO3: The student will be introduced to techniques used for preparation and management of the OT.

Course Code: DOTT-401

Title of the Course: CSSD Procedures

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Able to do- patient data collection, catheter insertion, airway management , assisting the administration and monitoring of regional and peripheral nerve blockades ,support therapy,adjusting anesthetic levels during surgery ,inter-operative monitoring,post-operative procedures, pain clinics and patient education, and administrative tasks.

CO2: Able to manage medical gases and pipeline system.

CO3: Able to assist in Intensive care unit

Course Code: DOTT-402

Title of the Course: CSSD Procedures-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Able to do- patient data collection, catheter insertion, airway management , assisting the administration and monitoring of regional and peripheral nerve blockades ,support therapy,adjusting anesthetic levels during surgery ,inter-operative monitoring,post-operative procedures, pain clinics and patient education, and administrative tasks.

CO2: Able to manage medical gases and pipeline system.

CO3: Able to assist in Intensive care unit.

Course Code: DOTT-403

Title of the Course: Basic Anaesthetic Techniques

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to independently handle the latest technology

and high end biomedical equipment in Operation Theatre.

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theatre recovery room and post-operative intensive care procedures.

Course Code: DOTT-404

Title of the Course: Basic Anaesthetic Techniques-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to in dependently handle the latest technology and high end biomedical equipment in Operation Theatre.

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theatre, recovery room and post-operative intensive care procedures.

Course Code: DOTT-405

Title of the Course: Regional Anaesthetic Techniques

L	T	P	Credit
4	-	-	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to in dependently handle the latest technology and high end biomedical equipment in Operation Theatre.

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theatre, recovery room and post-operative intensive care procedures.

Course Code: DOTT-406

Title of the Course: Regional Anaesthetic Techniques-Practical

L	T	P	Credit
-	-	4	4

Course Outcomes:

CO1: Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.

CO2: Able to train and develop an individual to in dependently handle the latest technology and high end biomedical equipment in Operation Theatre.

CO3: Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theatre, recovery room and post-operative intensive

care procedures.

Course Code: DOTT-407

Title of the Course:OTT-Directed Clinical education-Part-III(Studentship)

L	T	P	Credit
-	-	-	-

Course Outcomes:

CO1: Students will observe the basic operations of the operation theatre while interacting with the multi-disciplinary team members involved in providing optimal care to the patients.

CO2: The student will be introduced to terminologies, equipment's.

CO3: The student will be introduced to techniques used for preparation and management to the OT.