

Name of Faculty	:	Faculty of Science
Name of Program	:	Bachelor of Science
Course Code	:	2BSL03
Course Title	:	Introduction to Quality and Patient safety
Type of Course	:	Value Added
Year of Introduction	:	2023-24

Prerequisite	:	Basics of microorganisms
Course Objective	:	The objective of the course is to help students understand the basic concepts of quality in health care and develop skills to implement sustainable quality assurance program in the health system.
Course Outcomes	:	At the end of this course, students will be able to:
	CO1	To understand the basics of emergency care and life support skills.
	CO2	To Manage an emergency including moving a patient.
	CO3	To provide a broad understanding of the core Course areas of infection prevention and control.

#### Teaching and Examination Scheme

Teaching Scheme (Contact Hours)			Credits	Examination Marks				
L	T	P		Theory Marks		Practical Marks		Total marks
			C	SEE	CIA	SEE	CIA	
2	0	0	2	50	25	0	0	75

Legends: L-Lecture; T-Tutorial/Teacher Guided Theory Practice; P - Practical, C - Credit, SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc

#### Course Content

Unit No.	Topics	Teaching Hours	Weightage	Mapping With COs
1	<b>Quality assurance and management</b> - Concepts of Quality of Care, Quality Improvement Approaches, Standards and Norms, Introduction to NABH guidelines. <b>Basics of emergency care and life support skills</b> - Basic life support (BLS), Vital signs and primary assessment, Basic emergency care first aid and triage, Ventilations including use of bag-valve-masks (BVMs), Choking, rescue breathing methods, One-and Two-rescuer CPR	7	23.33%	CO1



2	<b>Biomedical waste management and environment safety</b> -Definition of Biomedical Waste, Waste minimization, BMW-Segregation, collection, transportation, treatment and disposal (including color coding), Liquid BMW, Radioactive waste, Metals/Chemicals / Drug waste, BMW Management & methods of disinfection, Modern technology for handling BMW, Use of Personal protective equipment(PPE), Monitoring & controlling of cross infection(Protective devices)	9	30%	CO1
3	<b>Infection prevention and control</b> - Evidence-based infection control principles and practices [such as sterilization, disinfection, effective hand hygiene and use of Personal protective equipment(PPE), Prevention & control of common healthcare associated infections, Components of an effective infection control program, Guidelines (NABH and JCI)for Hospital Infection Control	8	26.67%	CO2, CO3
4	<b>Antibiotic Resistance</b> - History of Antibiotics, How Resistance Happens and Spreads, Types of resistance- Intrinsic, Acquired, Passive, Trends in Drug Resistance, Actions to Fight Resistance, Bacterial persistence, Antibiotic sensitivity, Consequences of antibiotic resistance.	6	20%	CO2, CO3

Suggested Distribution of Theory Marks Using Bloom's Taxonomy						
Level	Remembrance	Understanding	Application	Analyse	Evaluate	Create
Weightage	33.33	66.67	0	0	0	0

NOTE: This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

#### Reference Books

Sr. No.	Name of Reference Books
1	Washington Manual of Patient Safety and Quality Improvement Paperback – 2016 by <u>Fondahn</u> (Author)
2	Understanding Patient Safety, Second Edition by <u>Robert Wachter</u> (Author)
3	Hand book of Healthcare Quality & Patient Safety Author: Girdhar J Gyani, Alexander Thomas
4	Researching Patient Safety and Quality in Healthcare: A Nordic Perspective Karina Aase, Lene Schibeveag
5	Handbook of Healthcare Quality & Patient Safety by Gyani G J/Thomas A Quality Management in Hospitals by <u>S. K. Jos</u>