

Postgraduate Diploma Course in Nurse Anesthesia, Department of Anesthesiology

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After applying for renewal the program was evaluated following the renewal process described in the International Federation of Nurse Anesthetists ANESTHESIA PROGRAM APPROVAL PROCESS (APAP): OPERATIONAL POLICIES AND PROCEDURES (pg. 10).

A current curriculum was presented to actualize the information about the program. Following the review of all information, renewal of Accreditation was granted based on the program's meeting eligibility requirements, ability to comply with the IFNA Education Standards.

Initial IFNA Accreditation	May 2013
Renewal:	June 2018
Accreditation valid until	June 2023

CURRICULUM OVERVIEW

Degree/ Diploma / Certificate awarded: **Postgraduate Diploma in Nurse Anesthesia NDS HF**

Term and Course	Contact Hours
<u>Introduction1 (AN1)</u>	
Introduction, Course structure	4
Respiratory anatomy and physiology	4
Overview of anaesthetic procedures (1 Clinical Day)	8
Minimal safety standards	2
Basic patient monitoring, principles and interpretations: NIBP, ECG, SpO ₂ , CO ₂	6
Fluid therapy	2
Ventilation equipment: assembly, servicing, maintenance	8
Ventilation masks, laryngeal masks and endotracheal tubes	2
Volatile and intravenous anesthetics	8
Opioids and non-opioids	4
Muscle relaxation and neuromuscular monitoring	4
Regional Anesthesia and Local anaesthetics	4
Cardio - active medications	4
Perioperative temperature management	2
Anaesthesia in gynaecology	2
Anaesthesia in orthopaedics	2
Anaesthesia in urology	2
Acute Pain Service APS	4
Patient positioning in the OR	4
Error culture and Critical Incident Reporting System CIRS	4
Simulator training, collaboration and communication	16

Self - Study	12
Exam AN1	4
Total	112

Introduction2 (AN2)

Physiology of cardiovascular system	4
Ventilation techniques	4
Bispectral Index BIS	2
Difficult Airway management	2
Blood saving methods	2
Coagulation Basics and Therapy	4
Anesthesia for obesity patients	4
Anesthesia for elderly patient	4
Malignant hyperthermia	2
Patient rights, patient advocacy and liability issues	2
Heart rhythm (ECG) and analysis	8
Clinical versus technical monitoring	4
Neuromuscular Monitoring	2
Transfusion and blood donation centre	4
Anatomy and Physiology of visceral organs	8
Basic Life Support BLS	2
Arterial and central - venous blood pressure measurement	2
Self - studies	12
Simulation trainings	8
Total	80

Clinical Anesthesia1 (AN3)

Anesthesia and various shock states	2
Acid - bases system and blood gas analysis	2
External and internal defibrillation	2
Anesthesia and Pacemaker	2
ROTEM Analysis	2
Anesthesia in obstetric	2
Resuscitation of the new born	2
Anesthesia for patients with cardiac risk factors	4
Anesthesia for visceral surgery	2
Advanced Life Support ALS	2
Lung embolism and various Embolisms	2
Infection control and contact isolation in OR	4
Self - Studies	10
Exam AN2	2
Total	40

Clinical Anesthesia2 (AN4)

Anesthesia and physiology for neuro surgery Part 1	4
Anesthesia and physiology for patients with kidney and liver diseases	2
Anesthesia and physiology for patients with endocrinological diseases	2
Anesthesia for patients with COPD and asthma	2
Anesthesia for patients with traumatic brain injury	4
Anesthesia for ENT patients incl. Jet ventilation	2
Anesthesia for children	2
Prehospital anesthesia, REGA (Swiss Air Rescue Service)	2
Monitored Anesthesia Care MAC (deep sedation)	2
Individual stress reflection and management	2
Self - studies	14
Exam AN3	2
Total	40

Special Anesthesia (AN5)

Anesthesia for neuro surgical Part 2	2
Anesthesia for patients with chronic pain	2
Anesthesia for pregnant and breastfeeding women	2
Anesthesia for patients with severe burns	2
Anesthesia for multi – trauma patients	4
Anesthesia for transplantations (heart, lungs, liver, kidney)	2
Anesthesia for vascular surgery	2
Anesthesia for ophthalmic surgery	2
Anesthesia for thoracic surgery	2
Transcultural nursing in Anesthesia care	4
Self - studies	14
Exam AN4	2
Total	40

Exam Preparation (AN6)

Repetition of 15 most important subjects in Anesthesia care	32
National/International professional political organisations	2
How to do a poster presentation	2
Modern working models, interprofessional collaboration and communication	2
Exam AN5	2
Total	40

Ethics in nursing (ID1)

Ethical dilemmas, perception, rules	8
Examples of ethical decision making	8
Shared decision making: professional argumentation in ethical dialogue	4
Proof of practical competence (exam)	4
Total	24

Writing Workshop + EBM (ID2)

Introducing scientific writing, explorative writing, phases of writing	12
Basics of evidence based medicine, Research, Databases (PubMed, Cochrane)	8
Writing of a diploma essay (format, choice of topics, level etc)	4
Total	24

Total Hours **400**

Clinical contact hours: **540**

Clinical contact hours are covered by the clinical instructor in practice. According to the national framework the minimum of clinical contact hours is 540. Over 2 years all aspects of anesthesia, communication, collaboration, management, patient advocacy, scholarship and professionalism are taught and tested in practice (CanMEDS). One of the major focus of clinical contact hours is the application of theory into practice. Clinical contact hours are also used to analyze practice situations and to develop self – learning skills.