



# AMALA COLLEGE OF NURSING

(An undertaking of Amala Cancer Hospital Society)

Amala Nagar P.O., Thrissur-680 555, Kerala, India.

Website : [www.amalanursingcollege.org](http://www.amalanursingcollege.org)

**FIRST CYCLE NAAC ACCREDITATION 2022**

## CRITERION 1

## CURRICULAR ASPECTS

### 1.3 Curriculum Enrichment

#### *1.3.3 Syllabus of Value Added*

*Submitted to*



**THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

# **SYLLABUS**

## **PRIMER ON INVASIVE AND NON- INVASIVE VENTILATORY SUPPORT: A VALUE ADDED COURSE**



**AMALA COLLEGE OF NURSING  
AMALA NAGAR, THRISSUR - 680555**

# AMALA COLLEGE OF NURSING

AMALA NAGAR P. O, THRISSUR - 680555



## PREFACE

Amala Institute of Medical Sciences, named after Mary Immaculate, is a Minority Christian Institution, which is open to all irrespective of religion, caste or creed. It aims at giving effective training to the youth to become nursing professionals devoted to the healing ministry, especially in the rural areas. It also strives to strengthen the quality of service offered in the large number of medical institutions run by the community. AIMS are a Unit of Amala Cancer Hospital Society managed by the Devamatha Province of the Carmelites of Mary Immaculate (CMI), founded by St. Kuriakose Elias Chavara, a sage-cum-savant. Amala, at present, offers an MBBS, Medical PG courses, Ph.D. Nursing, M.Sc. Nursing and B.Sc. Nursing courses and is affiliated to the Kerala University of Health Sciences. Students are admitted to this institute as per the admission procedure stipulated by the concerned authorities and in the tenor of the admission policy of the management.

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**Title:** Primer on invasive and non- invasive ventilator support: a value added course

**Placement :** B.Sc. Nursing

**Theory:** *12 hours*

**Practical :** *4 hours*

### **Course Description**

Early recognition of patients who might potentially require ventilatory support is a key goal of critical care and it requires knowledge and important skill for all hospital medical staff. This programme is designed to provide a comprehensive training regarding **a primer on invasive and non- invasive ventilator support** for nursing students, enabling them function well as monitors of patients' pulmonary compliance and provide respiratory care to critically ill patients. The course is scheduled over one week with two contact hours per day. Students would be supplemented with a reading material on topic 'Applied anatomy and physiology of respiratory system'. To augment the theory learning experience, hands on sessions regarding blood gas analysis and handling of various ventilatory support devices are arranged on topics.

## **AIMS AND OBJECTIVES:**

### **AIMS**

Competency based value added course regarding a primer on invasive and non-invasive ventilatory support aims to prepare nursing students with expertise, able to deal effectively with manifold respiratory therapies.

### **OBJECTIVES:**

On the completion of the programme the students will be able to:

1. Apply aspects of anatomy and physiology of respiratory system in daily practice
2. Show good understanding regarding basics of blood gas analysis.
3. Explain nursing aspects of ABG analysis
4. Provide care to patient on invasive and non-invasive respiratory support
5. Describe regarding nursing aspects of patient on mechanical ventilator support

## COURSE OUTLINE:

Sl. No	Time allotted	Learning Objective	Content	Teaching learning	Assessment
1	3 hours	Apply aspects of anatomy and physiology of respiratory system in daily practice	Revision on basic anatomy of respiratory system, explain physiology and mechanisms of respiration.	Reading material	Short answer type questions
2	4.5hours	Show good understanding regarding basics and interpretation of blood gas analysis.	Introduction to analysis of blood gas: definition, collection and transportation of sample, interpretation of result	Lecture cum discussion Demonstration Work sheet on ABG analysis	Short answer type questions Re-demonstration
3	2 hours	Explain nursing aspects of ABG analysis	Explain role of nurse in ABG analysis	Lecture cum discussion	Short answer type questions
4	4.5 hours	Provide care to patient on invasive and non-invasive respiratory support	Introduction to various mode of ventilation, Initiation, management and weaning of patient from invasive and non -invasive ventilator support, essential ventilator care,	Lecture cum discussion Demonstration Hands on session – invasive and non -invasive ventilator support in ICU	Re-demonstration Short answer type questions
5	2 hours	Describe regarding nursing aspects of patient on mechanical ventilator support	Explain role of nurse in care of patient on ventilator	Lecture cum discussion	Short answer type questions

**METHODS OF TEACHING:**

This course includes classroom teachings, discussions, demonstrations and online sessions. All the essential skills will be demonstrated to the students and practice sessions will be arranged.

**METHOD OF EVALUATION:**

Evaluation will be conducted at the completion of the course using a structured questionnaire containing 30 objective type questions carrying 30 marks

**CREDENTIALING:**

Students who take up the entire contact hours and acquiring 50% marks in the assessment will be awarded with one credit.



## **REFERENCES:**

- P.R Ashalatha ,Textbook of Anatomy & Physiology for Nurses, Jaypee Brothers, New Delhi
- Black.J, Hawks J H. Medical surgical textbook. Volume 2. 8<sup>th</sup> edition.USA: Elsevier publication; 2011. Page no. 1514- 1519
- Smeltzer, S., Bare, B. G., Hinkle, J.L., Cheever, K. H. Brunner & Suddarth's Text Book of Medical Surgical Nursing. New Delhi: Wolters Kluwer.

# **AMALA COLLEGE OF NURSING**

## **VISION**

To establish a Center of Excellence providing value-added education that combines effective teaching focused academic exposure and productive research with the aim of training healthcare personnel with professionalism and spirit of love and service as their hallmarks.

## **MISSION**

We constantly seek to recruit brilliant staff and provide state-of-the art infrastructure in an Eco-friendly ambience with a view to challenging the students to become forward-looking dedicated graduate nurses imbued with compassionate love towards all, especially the poor and the marginalized.

