Course Specifications

Course Title:	**Anaesthesia**
Course Code:	**1000511**
Program:	**MBBCH**
Department:	**Surgery**
College:	**Medicine**
Institution:	**King Faisal University**

Table of Contents

A. Course Identification

1. Credit hours:	**1.5**
2. Course type: Traditional	
a. University √ College ☐ Department ☐ Others ☐	
b. Required √ Elective ☐	
3. Level/year at which this course is offered:	**Fifth year**
4. Pre-requisites for this course (if any)**:** 1.CTC 2.Clinical rounds/ discussion 3.Case based learning/Operation theater rotation 4.Student presentations followed by discussion 5.Hands on training	
5. Co-requisites for this course (if any)**:**	

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	45	100
2	**Blended**		
3	**E-learning**		
4	**Correspondence**		
5	**Other**		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	45
2	**Laboratory/Studio**	
3	**Tutorial**	
4	**Others** (specify)	
	Total	45
Other Learning Hours*		
1	**Study**	13
2	**Assignments**	10
3	**Library**	12
4	**Projects/Research Essays/Theses**	
5	**Others** (specify)	
	Total	35

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The course is a clinical rotation in anaesthesiology, where students will assess the patient pre operatively and will formulate an anaesthetic plan after gathering information on the patient.

2. Course Main Objective

To enable students to acquire basic working knowledge of anesthesiology to secure foundation in the subject on which they can subsequently build, whether for general practice, or further specialization, including, sub specialties of anaesthesia, critical care, pain management and identification of possible complications their prevention and management in primary care settings.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge:**	
1.1	Correlate the basic knowledge of anaesthetic drugs, fluids, airway management, regional block, local anaesthetics, and pain medicine in the management of patient requiring surgery.	K1
1.2	Discuss clinical manifestations of anaesthetic complications and corresponding differential diagnosis and management, correlating the same with the basic clinical features.	K2
1.3	Explain the management of most common anaesthetic complications including common diagnostic tools and interpretation of the same and pharmacological and non- pharmacological therapies, considering the different medical, social, psychological and cultural backgrounds	K3
2	**Skills :**	
2.1	Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints related to anaesthesia, presenting the different possible solutions and therapies while considering the different anaesthetic techniques, previous anaesthesia history and complications, keeping in mind basic sciences knowledge.	S1
2.2	Integrate and organize the history, physical examination, and investigative findings in formulation of anaesthetic plans/technique.	S1
2.3	Employ a plan for an anaesthetic technique and ongoing management of an individual patient in the context of anaesthetic management.	S3
3	**Competence:**	
3.1	Perform basic anaesthesia skills including investigative and hands on procedures and pharmacological therapies, both in routine cases and in emergency settings related to anaesthesia.	C1
3.2	Develop and implement a suitable plan of care for different anaesthetic problems in a shared view with patients, relatives and peers, including breaking bad news.	C2
3.3	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment.	C3

C. Course Content

No	List of Topics	Contact Hours
1	Management of general Anesthesia/ Pre Anesthesia Assessment	6
2	Anesthetic drugs	6
3	Local Anesthetics and Regional Anesthetic Technique	4

4	Intraoperative Monitoring	4
5	Airway assessment and its Management /practicing endotracheal intubation.(in CTC building)	5
6	Blood transfusion and complications	4
7	Perioperative Fluid Management	4
8	Postoperative Pain Management	4
9	Post Anesthesia Complications	4
10	Anaesthesia skills /for practicing spinal block. (in CTC building)	4
Total		45

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Correlate the basic knowledge of anaesthetic drugs, fluids, airway management, regional block, local anaesthetics, and pain medicine in the management of patient requiring surgery.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)
1.2	Discuss clinical manifestations of anaesthetic complications and corresponding differential diagnosis and management, correlating the same with the basic clinical features.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)
1.3	Explain the management of most common anaesthetic complications including common diagnostic tools and interpretation of the same and pharmacological and non-pharmacological therapies, considering the different medical,	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative)

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	social, psychological and cultural backgrounds		3. Clinical exam (OSCE)
2.0	**Skills**		
2.1	Apply clinical reasoning, critical and analytical skills in discussing the patient's complaints related to anaesthesia, presenting the different possible solutions and therapies while considering the different anaesthetic techniques, previous anaesthesia history and complications, keeping in mind basic sciences knowledge.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2.Student case presentations (formative) 3. Clinical exam (OSCE)
2.2	Integrate and organize the history, physical examination, and investigative findings in formulation of anaesthetic plans/technique.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)
2.3	Employ apPlan for an anaesthetic technique and ongoing management of an individual patient in the context of anaesthetic management.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)
3.0	**Competence**		
3.1	Perform basic anaesthesia skills including investigative and hands on procedures and pharmacological therapies both in routine cases and in emergency settings related to anaesthesia.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)
3.2	Develop and implement a suitable plan of care for different anaesthetic problems in a shared view with patients, relatives and peers, including breaking bad news.		1.Final term PS will test direct knowledge acquisition related to the objective

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	2. Student case presentations (formative) 3. Clinical exam (OSCE)
3.3	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment.	1.Hospital Based Teaching in OR 2.Small group discussion 3. simulation	1.Final term PS will test direct knowledge acquisition related to the objective 2. Student case presentations (formative) 3. Clinical exam (OSCE)

2. Assessment Tasks for Students

NO.	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Percentage of Total Assessment Score
1	Mini CEX	Every day	10
2	Seminar	Second week	10
	Log book (and discussion)	Last day of clinical rotation	10
	OSCE	After 2 weeks	30
	Problem solving written examination	After 2 weeks	40

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time and teaching staff are expected to be available each week)

Office hours :2 Hours twice/ week

(Proof of same – student feedback, copy of introductory material)

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	1. Aitkenhead, A.,Smith,G.and Rowbotham,D .*Textbook of anaesthesia*. 8th ed. Edinburgh: Churchill Livingstone/Elsevier; 2008. 2. Morgan, G. E., Mikhail, M. S., & Murray, M. J. *Clinical anesthesiology 5th*. New York: Lange Medical Books/McGraw Hill Medical Pub. Division;2006

Essential References Materials	**1.Same as above** **2. The British Journal of Anaesthesia**
Electronic Materials	List Electronic Materials, Web Sites, Facebook, Twitter, etc. **1. FrcAuk.com** **2. wsfA.com**
Other Learning Materials	**Electronic material made by the faculty for short clinical discussion are made available to the students.** **Blackboard is active for the course and details will be given during the initial student orientation**

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	**Lecture room with suitable chairs number , with multimedia facilities** **Available, sufficient, well furnished, well equipped with multimedia** Skill and simulation labs. with adequate number of mannequins, computers and other accessory equipment
Technology Resources (AV, data show, Smart Board, software, etc.)	**Separate computer lab: available, in a sufficient manner**
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**OPD /bedside teaching facilities with basic equipment for all specialties, operation room, emergency department**

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course objectives, content and learning outcomes	Curriculum committee	Course review Course report
Effectiveness of teaching	Faculty and students	Classroom observation (QMS annex O and P) Course evaluation survey (QMS annex B)
Achievement of course learning outcomes	Course faculty	Moderation (QMS annex G and annex H)
Assessment	Course faculty	Verification
Learning resources and facilities	Students Faculty	Course evaluation Survey Course report
Student academic counseling and support	Students	Course evaluation Survey
Course quality management	Program coordinator	Course report review

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	College Council
Reference No.	2
Date	September 24, 2019