



(DAY 1) Thursday 25 th September 2025			
Time		Topic	Speaker
07:30-08:00	Registration		
08:00-08:45	Course introduction & ECMO history		Dr. Mohamed Azzam
08:45-09:25	Basic Respiratory Physiology & Gas Exchange		Dr. Wadiah Alfilfil
09:25-10:00	Basic Cardiac Physiology Relevant to ECLS		Dr. Mohamed Azzam
10:00-10:30	Introduction to ECMO components & ECMO configurations.		Dr. Mahdi Uthman
10:30-10:45	Coffee Break		
Practical Sessions			
Basic Introduction			
10:45-12:15	How to prime an ECMO circuit (Mrs. Hanin Ashi)	Cannula types & uses (Dr. Mohamed Azzam)	ECMO machine, alarms, modifications
10:45-11:15	A	B	C
11:15-11:45	C	A	B
11:45-12:15	B	C	A
12:15 -13:00	Lunch and Prayer		
Respiratory ECMO			
13:00-13:20	Indication and contraindication for Respiratory Failure (Hypoxia or Hypercapnia)		Dr. Abdullah Alghamdi
13:20-13:40	Initial setting for VV ECMO		Dr. Husam Bahauuden
13:40-14:00	Managing Patient on VV ECMO and Troubleshooting		Dr. Husam Bahaudden
14:00-14:30	Managing Hypoxia on ECMO (other advanced configurations)		Dr. Wadia Alfilfil
14:30-14:50	Weaning & Decannulation		Dr. Ahmed Rajab
14:50-15:05	Coffee Break		
Practical Session			
15:10-17:15	Transportation Session		
15:10-15:40	Preparation for Transportation & Indication for ECMO transportation (Ms. Najla Al Harbi)		
15:45-17:15	Transporting patient on ECMO (Dr. Mohamed Azzam, Dr. Husam Bahaudden, Dr. Wadiah Alfilfil		
15:45-16:15	A		
16:15-16:45	B		
15:45-17:15	C		
17:15-17:30	Closing Remarks & Evaluation		



(DAY 2) Friday 26 th September 2025				
Time		Topic		Speaker
Cardiac ECMO				
08:00-08:10		Question & Discussion for Day 1		All instructors
08:10-08:30		Indication and contraindication of VA ECMO		Dr. Abdullah Alghamdi
08:30-08:50		Initial setting for VA ECMO		Dr. Husam Bahauuden
08:50-09:15		Monitoring Patient on VA ECMO		Dr. Wadiah Alfilfil
09:15-09:40		Management of Patient on VA ECMO and Troubleshooting		Dr. Mahdi Othman
09:40-10:05		ECPR		Dr. Ahmed Rajab
10:05-10:25		Weaning & Decannulation		Dr. Mohamed Azzam
10:25-10:40		Coffee Break		
Practical Sessions				
Case Based Scenario Practical Session				
10:40-12:00		ECCOR (Dr. Ahmed Rajab)	How to Manage RV Failure on ECMO (Dr. Abdullah Alghamdi)	Cardiac Arrest on ECMO (Prof. Wadiah Alfilfil)
10:40-11:05		A	B	C
11:05-11:30		C	A	B
11:30-11:55		B	C	A
12:00-13:00		Lunch Break		
Miscellaneous ECMO				
13:00-13:30		Nursing Care on ECMO		Ms. Najla Al Harbi/ Ms. Hanin Ashi
13:30-13:50		Renal Failure & RRT on ECMO		Dr. Mahdi Uthman
13:50-14:15		ECMO in Trauma		Dr. Mohamed Azzam
14:15-14:40		ECMO in Sepsis		Dr. Husam Bahaudden
14:40-15:05		Blood Transfusion & Anticoagulation on ECMO		Dr. Ahmed Ragab
15:05-15:30		Antibiotics, Drug Dosing, and Sedation on ECMO		Dr. Abdullah Alghamdi
15:30-15:40		Closing Remarks & Evaluation		



(DAY 1) Saturdat 27 th September 2025			
Time		Topic	Speaker
08:00 -08:15		Q&A	
Cannulation Session			
08:15-11:15	Cannulation for VV ECMO Dr. Bahauddeen, Dr. Alghamdi	Cannulation for VA ECMO Dr. Azzam, Dr. Alfilfil	Decannulation for VV & VA ECMO Dr. Rajab, Dr. Uthman
08:15-09:15	A	B	C
09:15-10:15	C	A	B
10:15-11:15	B	C	A
11:15-11:30		Coffee Break	
11:30-12:15		Challenging Cases Discussion (Consult the Experts) (All Faculty)	
12:15-13:00		Lunch Break	
Simulations Session ECMO Session Leader Dr. Wadiah Al Filfil			
13:00-13:30	Sim 1		
13:30-14:00	Sim 2		
14:00-14:30	Sim 3		
14:30-15:00	Sim 4		
15:00-15:15		Closing session	