

جامعة البلقاء التطبيقية

Engineering Program				
Specialization	Medical Equipment Technology			
Course Number	020406281			
Course Title	Medical equipment troubleshooting and repair			
Credit Hours	3			
Theoretical Hours	1			
Practical Hours	6			

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Brief Course Description:

• Students should acquire a theoretical and practical knowledge about reading electronic schematics and how to perform basic troubleshooting methods for medical equipment including: Hemodialysis, Anesthesia, Ventilator, Sterilizer, Infant Incubator, and electrosurgical unit ...etc.



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Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time Needed
1	Hemodialysis	 reading electronic schematics and how to perform basic troubleshooting and repair 	
2	Anesthesia	 reading electronic schematics and how to perform basic troubleshooting and repair 	
3	Ventilator	 reading electronic schematics and how to perform basic troubleshooting and repair 	
4	Sterilizer	 reading electronic schematics and how to perform basic troubleshooting and repair 	
5	Infant Incubator	 reading electronic schematics and how to perform basic troubleshooting and repair 	
6	Electrosurgical units and operating tables	 reading electronic schematics and how to perform basic troubleshooting and repair 	
7	ECG and patient monitors	 reading electronic schematics and how to perform basic troubleshooting and repair 	
8	Dental Equipment	 reading electronic schematics and how to perform basic troubleshooting and repair 	
9	Defibrillator	 reading electronic schematics and how to perform basic troubleshooting and repair 	
10	Surgical Laser	 reading electronic schematics and how to perform basic troubleshooting and repair 	
11	Physiotherapy Equipment	 reading electronic schematics and how to perform basic troubleshooting and repair 	

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12	Routine X-Ray and Ultrasound machines	 reading electronic schematics and how to perform basic troubleshooting and repair 	
13	Laboratory	 reading electronic schematics and how to perform basic troubleshooting methods 	

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Evaluation Strategies:

Exams		Percentage	Date
Exams	Med-Term Exam	.%	//
	Final Exam	.%	//
			/
Homework and Projects		.%	
Discussions and lecture presentations			

Teaching Methodology:

- Lectures
- Video Lectures

Text Books & References: