Group A, B, C, D & E

Week 1 (02/09/2020) **Theme: Structure & function of the heart**

Time	Wednesday	Thursday	Friday	Saturday	Monday – 7th September
09:00 – 10:00	**Lecture**: Overview of the cardiovascular system and Mediastinum **(A)** **Group: A+B+C**	**Lecture:** Histology of the heart – basic structure of the circulatory system **(A)** **Group: A+B+C**	**Lecture:** Histology of the heart & blood vessels **(A)** **Group: A+B+C**	**Lecture:** Pericardium: Fibrous & serous **(A)** **Group: A+B+C**	**Lecture**: Heart surfaces & borders **(A)** **Group: A+B+C**
	Lecture: Properties of the heart **(P)** **Group: D+E**	**Lecture:** Atrial & ventricular action potential of the heart **(P)** **Group: D+E**	**Lecture:** Conducting system of the heart **(P)** **Group: D+E**	**Lecture:** Cardiac enzymes **(B)** **Group: D+E**	**Lecture:** Cardiac proteins **(B)** **Group: D+E**
10:15 – 11:15	**Lecture**: Properties of the heart **(P)** **Group: A+B+C**	**Lecture:** Atrial & ventricular action potential of the heart **(P)** **Group: A+B+C**	**Lecture:** Conducting system of the heart **(P)** **Group: A+B+C**	**Lecture:** Cardiac enzymes **(B)** **Group: A+B+C**	**Lecture:** Cardiac proteins **(B)** **Group: A+B+C**
	Lecture: Overview of the cardiovascular system and Mediastinum **(A)** **Group: D+E**	**Lecture:** Histology of the heart – basic structure of the circulatory system **(A)** **Group: D+E**	**Lecture:** Histology of the heart & blood vessels **(A)** **Group: D+E**	**Lecture:** Pericardium: Fibrous & serous **(A)** **Group: D+E**	**Lecture**: Heart surfaces & borders **(A)** **Group: D+E**
01:15 – 03:00	**Group A:** Embryology tutorial **Group B:** **Group C:** **Group D:** **Group E:**	**Group A:** **Group B:** Embryology tutorial **Group C:** **Group D:** **Group E:**	**Group A:** **Group B:** **Group C:** Embryology tutorial **Group D:** **Group E:**	**Group A:** **Group B:** **Group C:** **Group D:** Embryology tutorial **Group E:**	**Group A:** **Group B:** **Group C:** **Group D:** **Group E:** Embryology tutorial
03:15 – 05.00	**Group A:** Histology lab **Group B:** **Group C:** **Group D:** **Group E:** Anatomy lab	**Group A:** Anatomy lab **Group B:** Histology lab **Group C:** **Group D:** **Group E:**	**Group A:** **Group B:** Anatomy lab **Group C:** Histology lab **Group D:** **Group E:**	**Group A:** **Group B:** **Group C:** Anatomy lab **Group D:** Histology lab **Group E:**	**Group A:** **Group B:** **Group C:** **Group D:** Anatomy lab **Group E:** Histology lab

Anatomy lab: Thoracic cage & mediastinum
Histology lab: Histology of the heart
Embryology tutorial: Formation of the heart tube and cardiac loop

First-Year Coordinator: Dr. Syna Amir

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Week 2 (08/09/2020) **Theme: Structure & function of the heart**

Time	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00 – 10:00	**Lecture:** Heart chambers – Right atrium & ventricles **(A)** **Group: A+B+C**	**Lecture:** Left atrium and ventricles **(A)** **Group: A+B+C**	**Lecture:** Blood supply of the heart **(A)** **Group: A+B+C**	**Lecture:** Pulmonary trunk and aorta **(A)** **Group: A+B+C**	**Lecture:** Surface marking of the heart & its innervation **(A)** **Group: A+B+C**
	Lecture: Electrocardiography – waves, calibrations, segments, intervals & uses **(P)** **Group: D+E**	**Lecture:** Electrocardiography – leads & their location **(P)** **Group: D+E**	**Lecture:** Cardiac cycle – atrial events **(P)** **Group: D+E**	**Lecture:** Cardiac cycle ventricular events **(P)** **Group: D+E**	**Lecture:** Overview of the cholesterol metabolism **(B)** **Group: D+E**
10:15 – 11:15	**Lecture:** Electrocardiography – waves, calibrations, segments, intervals & uses **(P)** **Group: A+B+C**	**Lecture:** Electrocardiography – leads & their location **(P)** **Group: A+B+C**	**Lecture:** Cardiac cycle – atrial events **(P)** **Group: A+B+C**	**Lecture:** Cardiac cycle ventricular events **(P)** **Group: A+B+C**	**Lecture:** Overview of the cholesterol metabolism **(B)** **Group: A+B+C**
	Lecture: Heart chambers – Right atrium & ventricles **(A)** **Group: D+E**	**Lecture:** Left atrium and ventricles **(A)** **Group: D+E**	**Lecture:** Blood supply of the heart **(A)** **Group: D+E**	**Lecture:** Pulmonary trunk and aorta **(A)** **Group: D+E**	**Lecture:** Surface marking of the heart & its innervation **(A)** **Group: D+E**
01:15 – 03:00	**Group A:** Embryology tutorial **Group B:** Biochemistry SGD **Group C:** Physiology SGD **Group D:** Anatomy SGD **Group E:**	**Group A:** **Group B:** Embryology tutorial **Group C:** Biochemistry SGD **Group D:** Physiology SGD **Group E:** Anatomy SGD	**Group A:** Anatomy SGD **Group B:** **Group C:** Embryology tutorial **Group D:** Biochemistry SGD **Group E:** Physiology SGD	**Group A:** Physiology SGD **Group B:** Anatomy SGD **Group C:** **Group D:** Embryology tutorial **Group E:** Biochemistry SGD	**Group A:** Biochemistry SGD **Group B:** Physiology SGD **Group C:** Anatomy SGD **Group D:** **Group E:** Embryology tutorial
03:15 – 05.00	**Group A:** **Group B:** Physiology lab **Group C:** **Group D:** **Group E:** Anatomy lab	**Group A:** Physiology lab **Group B:** **Group C:** **Group D:** Anatomy lab **Group E:**	**Group A:** **Group B:** **Group C:** Anatomy lab **Group D:** **Group E:** Physiology lab	**Group A:** **Group B:** Anatomy lab **Group C:** **Group D:** Physiology lab **Group E:**	**Group A:** Anatomy lab **Group B:** **Group C:** Physiology lab **Group D:** **Group E:**

Anatomy Lab: Overview of the heart & pericardium
Physiology SGD: Properties, action potential and conducting system of the heart
Anatomy SGD: Overview of heart/ Pericardium/ thoracic cage & Mediastinum
Physiology lab: Performing and interpreting Electrocardiography (ECG)
Embryology tutorial: Development of the sinus venosus and cardiac septa
Biochemistry SGD:

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Week 3 (14/09/2020) **Theme: Cardiac enzymes & lipid metabolism**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 – 10:00	**Lecture:** Heart sounds & Murmurs **(P)** **Group: A+B+C**	**Lecture:** Pathophysiology of cardiac arrhythmia **(P)** **Group: A+B+C**	**Lecture**: Cardiac output & its regulation **(P)** **Group: A+B+C**	**Lecture:** Cardiac output – methods of measurement **(P)** **Group: A+B+C**	**Lecture:** Lipoprotein and their clinical significance **(B)** **Group: A+B+C**
	Lecture: Role of cholesterol in Cardiovascular diseases **(B)** **Group: D+E**	**Lecture**: Pathophysiology of the heart blocks **(P)** **Group: D+E**	**Lecture:** Radiological anatomy of the heart **(A)** **Group: D+E**	**Lecture:** Haemodynamic – blood flow & functional parts of circulation **(P)** **Group: D+E**	**Lecture:** Haemodynamic – capillary fluid exchange **(P)** **Group: D+E**
10:15 – 11:15	**Lecture:** Role of cholesterol in Cardiovascular diseases **(B)** **Group: A+B+C**	**Lecture**: Pathophysiology of the heart blocks **(P)** **Group: A+B+C**	**Lecture:** Radiological anatomy of the heart **(A)** **Group: A+B+C**	**Lecture:** Haemodynamic – blood flow & functional parts of circulation **(P)** **Group: A+B+C**	**Lecture:** Haemodynamic – capillary fluid exchange **(P)** **Group: A+B+C**
	Lecture: Heart sounds & Murmurs **(P)** **Group: D+E**	**Lecture:** Pathophysiology of cardiac arrhythmia **(P)** **Group: D+E**	**Lecture**: Cardiac output & its regulation **(P)** **Group: D+E**	**Lecture:** Cardiac output – methods of measurement **(P)** **Group: D+E**	**Lecture:** Lipoprotein and their clinical significance **(B)** **Group: D+E**
01:15 – 03:00	**Group A:** Embryology tutorial **Group B:** Biochemistry SGD **Group C:** Physiology SGD **Group D:** Anatomy SGD **Group E:**	**Group A:** **Group B:** Embryology tutorial **Group C:** Biochemistry SGD **Group D:** Physiology SGD **Group E:** Anatomy SGD	**Group A:** Anatomy SGD **Group B:** **Group C:** Embryology tutorial **Group D:** Biochemistry SGD **Group E:** Physiology SGD	**Group A:** Physiology SGD **Group B:** Anatomy SGD **Group C:** **Group D:** Embryology tutorial **Group E:** Biochemistry SGD	**Group A:** Biochemistry SGD **Group B:** Physiology SGD **Group C:** Anatomy SGD **Group D:** **Group E:** Embryology tutorial
03:15 – 05.00	**Group A:** **Group B:** Physiology lab **Group C:** **Group D:** **Group E:** Anatomy lab	**Group A:** Physiology lab **Group B:** **Group C:** **Group D:** Anatomy lab **Group E:**	**Group A:** **Group B:** **Group C:** Anatomy lab **Group D:** **Group E:** Physiology lab	**Group A:** **Group B:** Anatomy lab **Group C:** **Group D:** Physiology lab **Group E:**	**Group A:** Anatomy lab **Group B:** **Group C:** Physiology lab **Group D:** **Group E:**

Physiology lab: Auscultation of heart sounds
Anatomy Lab: Chambers of the heart; Neurovasculature of the heart
Physiology SGD:
Anatomy SGD: Chambers of the heart; Neurovasculature of the heart
Embryology tutorial: Development of the interventricular septum
Biochemistry SGD:

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Week 4 (21/09/2020) **Theme: Heart – Haemodynamic**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 – 10:00	**Lecture:** Lipoprotein metabolism **(B)** **Group: A+B+C**	**Lecture:** Development of vascular system **(A)** **Group: A+B+C**	**Lecture:** Circulation before & after birth **(A)** **Group: A+B+C**	**Lecture:** Pathophysiology of shock **(P)** **Group: A+B+C**	
	Lecture: Haemodynamic – venous return, venous pressure, & vascular compliance **(P)** **Group: D+E**	**Lecture:** Blood pressure & Short-term regulation of BP **(P)** **Group: D+E**	**Lecture:** Long-term regulation of BP **(P)** **Group: D+E**	**Lecture:** Pathophysiology of Hypertension **(P)** **Group: D+E**	**Lecture:** Pathophysiology of the Heart failure **(P)** **Group: D+E**
10:15 – 11:15	**Lecture:** Haemodynamic – venous return, venous pressure, & vascular compliance **(P)** **Group: A+B+C**	**Lecture:** Blood pressure & Short-term regulation of BP **(P)** **Group: A+B+C**	**Lecture:** Long-term regulation of BP **(P)** **Group: A+B+C**	**Lecture:** Pathophysiology of Hypertension **(P)** **Group: A+B+C**	**Lecture:** Pathophysiology of the Heart failure **(P)** **Group: A+B+C**
	Lecture: Lipoprotein metabolism **(B)** **Group: D+E**	**Lecture:** Development of vascular system **(A)** **Group: D+E**	**Lecture:** Circulation before & after birth **(A)** **Group: D+E**	**Lecture:** Pathophysiology of shock **(P)** **Group: D+E**	
01:15 – 03:00	**Group A:** Embryology tutorial **Group B:** Biochemistry SGD **Group C:** Physiology SGD **Group D:** Anatomy SGD **Group E:**	**Group A:** **Group B:** Embryology tutorial **Group C:** Biochemistry SGD **Group D:** Physiology SGD **Group E:** Anatomy SGD	**Group A:** Anatomy SGD **Group B:** **Group C:** Embryology tutorial **Group D:** Biochemistry SGD **Group E:** Physiology SGD	**Group A:** Physiology SGD **Group B:** Anatomy SGD **Group C:** **Group D:** Embryology tutorial **Group E:** Biochemistry SGD	**Group A:** Biochemistry SGD **Group B:** Physiology SGD **Group C:** Anatomy SGD **Group D:** **Group E:** Embryology tutorial
03:15 – 05.00	**Group A:** **Group B:** Physiology lab **Group C:** **Group D:** **Group E:** Anatomy lab	**Group A:** Physiology lab **Group B:** **Group C:** **Group D:** Anatomy lab **Group E:**	**Group A:** **Group B:** **Group C:** Anatomy lab **Group D:** **Group E:** Physiology lab	**Group A:** **Group B:** Anatomy lab **Group C:** **Group D:** Physiology lab **Group E:**	**Group A:** Anatomy lab **Group B:** **Group C:** Physiology lab **Group D:** **Group E:**

Physiology lab: Measuring blood pressure
Anatomy Lab: Internal structure of the heart chambers
Physiology SGD:
Embryology SGD: Development of the aortopulmonary septum

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Week 5 (28/09/2020) **End-Module Examination**

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08.30 – 09.30	Study Leave		**Anatomy** **Paper 1** 30 MCQs	**Biochemistry** **Paper 1** 25 MCQs	**Physiology** **Paper 1** 40 MCQs	
09.35 – 10.30			**Paper 2** Structured Answer Questions (20 marks)	**OSPE** 03 spots 15 marks	**OSPE** 06 spots 30 marks	
10.35 – 12.30			**OSPE** 08 spots 40 marks	**Viva** 10 marks	**Viva** 10 marks	
01.00 – 03.00			Viva 10 marks			

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