# GAZİ UNIVERSITY FACULTY OF MEDICINE

# 2024-2025 EDUCATIONAL YEAR 2

**DIGESTIVE SYSTEM AND METABOLISM COMMITTEE**

**(06.01.2025 – 13.03.2025)**

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| **COURSES** | **THEORETICAL** | **LABORATORY** | **PRACTICAL** | **TOTAL** |
| Anatomy | 26 | 5x2 |  | 36 |
| Biophysics | 8 | - |  | 8 |
| Physiology | 22 | 1x2 |  | 24 |
| Histology and Embryology | 12 | 6x2 |  | 24 |
| Medical Biochemistry | 44 | 6x2 |  | 56 |
| **TOTAL** | **112** | **36** |  | **148** |
| Elective Courses | 16 |  |  | 16 |
| **INTRODUCTION TO MEDICINE** |  |  |  |  |
| Problem Based Learning (PBL) |  |  |  |  |
| Clinical Skills Education (CSE) |  |  | 1x2 | 2 |
| Medical English | 16 |  |  | 16 |
| Analysis of 2nd Committee Exam and Feedback | 1 |  |  | 1 |
| **TOTAL** | **145** | **36** | **2** | **183** |
| **TOTAL FREE STUDY TIME** | **75 hours** | | | |

Free study time definition: Individual studying courses intended for learning in accordance with the present committee.

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| 10.03.2025 | MONDAY | YEAR II APPLIED EXAM | Time: 08.30 |
| 11.03.2025 | TUESDAY | YEAR II APPLIED EXAM | Time: 08.30 |
| 12.03.2025 | WEDNESDAY | YEAR II APPLIED EXAM | Time: 08.30 |
| 13.03.2025 | THURSDAY | YEAR II THEORETICAL EXAM | Time: 09.30 |

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| Dean | Prof. Dr. Alper CEYLAN |
| Vice Dean | Assoc. Prof. Dr. Asiye UĞRAŞ DİKMEN |
| Vice Dean | Assoc. Prof. Dr. Nazmi Mutlu KARAKAŞ |
| Head Coordinator | Prof. Dr. Çiğdem ÖZER |
| Assistant Head Coordinator | Prof. Dr. Mehmet Ali ERGÜN |
| Assistant Head Coordinator | Prof. Dr. Akif Muhtar ÖZTÜRK |
| **Year II Coordinator** | **Assist. Prof. Dr. Duygu DAYANIR** |
| **Assistant Year II Coordinator** | **Teach. Assist. Dr. Pelin TÜRKKAN** |
| **Assistant Year II Coordinator** | **Teach. Assist. Dr. Nihan ÖRÜKLÜ** |
| **Assistant Year II Coordinator** | **Teach. Assist. Dr. Ayşe SOYLU** |

# MEMBERS OF COMMITTEE

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| **ANATOMY** | **HISTOLOGY**  **&**  **EMBRYLOGY** | **PHYSIOLOGY** | **MEDICAL BİOCHEMISTRY** |
| Dr. Meltem BAHÇELİOĞLU | Dr. Zeynep YIĞMAN | Dr. Şevin GÜNEY | Dr. Neslihan BUKAN |
| Dr. Kerem ATALAR | Dr. S. Esra ÖZKOÇER | Dr. A. Meltem SEVGİLİ | Dr. Orhan CANBOLAT |
|  | Dr. Duygu DAYANIR |  | Dr. Aylin SEPİCİ DİNCEL |
|  |  |  | Dr. Mustafa KAVUTÇU |
|  |  |  | Dr. Cengiz KARAKAYA |
|  |  |  | Dr. Kübranur ÜNAL |
| **BIOPHYSICS** |  |  |  |
| Dr. Elçin ÖZGÜR BÜYÜKATALAY |  |  |  |
| Dr. Meriç Arda EŞMEKAYA |  |  |  |

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| ANATOMY LABORATORY | HISTOLOGY & EMBRYLOGY LABORATORY | PHYSIOLOGY LABORATORY | MEDICAL  BIOCHEMISTRY  LABORATORY |
| Dr. Meltem BAHÇELİOĞLU | Dr. Çiğdem ELMAS | Dr. Şevin GÜNEY | Dr. Cengiz KARAKAYA |
| Dr. Kerem ATALAR | Dr. Gülnur TAKE KAPLANOĞLU | Dr. A. Meltem SEVGİLİ | Dr. Kübranur ÜNAL |
| Dr. Ayşe SOYLU | Dr. C. Merve SEYMEN | Dr. Pelin TÜRKKAN | Dr. N. Samet YILMAZ |
| Dr. Onur ARAS | Dr. Zeynep YIĞMAN |  |  |
|  | Dr. Duygu DAYANIR |  |  |
|  | Dr. S. Esra ÖZKOÇER |  |  |

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| **Clinical Skills Education Coordinator** | Prof. Dr. Nurten İNAN |
| **Elective Course Coordinator** | Assoc. Prof. Dr. Ergin DİLEKÖZ |

**DIGESTIVE SYSTEM AND METABOLISM COMMITTEE**

## Objective:

Should be able to tell the embryonic development, developmental anomalies and malformations of the structures related to the digestive system, the anatomical and histological structure of the digestive system, the physiological functions and establish the connections with the clinic. Should be able to explain biochemical properties and energy metabolism of digestion

# LEARNING OBJECTIVES

## Knowledge Based

**LO-200-3-1** Should be able to explain which germ leaves the digestive system develops from and in which weeks of development it occurs

**LO-200-3-2** Should be able to explain anatomical, histological structures and physiological functions of organs in digestive tract

**LO-200-3-3** Should be able to explain anatomical, histological structure and physiological functions of liver and biliary tract

**LO-200-3-4** Should be able to explain the histological, anatomical structure and functions of the spleen and pancreas

**LO-200-3-5** Should be able to explain the hormones secreted from digestive system

**LO-200-3-6** Should be able to explain motor movements and secretory functions in digestive tract

**LO-200-3-7** Should be able to say the events of digestion and absorption in the small intestine **LO-200-3-8** Should be able to explain vitamin and trace elements and energy mechanisms, regulation of body temperature

**LO-200-3-9** Should be able to tell lipid, protein and fat metabolism

**LO-200-3-10** Should be able to define thermodynamic systems, enthalpy and entropy, Heat transfer mechanisms: Heat transfer by convection, radiation and their physical formulations **LO-200-3-11** Should be able to have a problem-based approach to diseases

## Application Based (practical skills)

**LO-200-3-12** Should be able to demonstrate the ability to insert the nasogastric catheter **LO-200-3-13** Should be able to show digestive system structures on experimental animal **LO-200-3-14** Should be able to apply the studies in experimental subjects

## Skills Based (intellectual and transferable skills)

**LO-200-3-15** Should recognize the importance of cadaver and microscope studies

**LO-200-3-16** Should recognize the importance of experimental animal in physiology education

**LO-200-3-17** Should recognize that working with a living organ or subject is a responsibility

**LO-200-3-18** Should be aware of the responsibility of behaving in a way that will not harm the living object

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| **1st WEEK** | **06.01.2025**  **MONDAY** | **07.01.2025**  **TUESDAY** | **08.01.2025**  **WEDNESDAY** | **09.01.2025**  **THURSDAY** | **10.01.2025**  **FRIDAY** |
| **08:30-09:20** | Free Study Time | Free Study Time | Free Study Time | Free Study Time | Free Study Time |
| **09:30-10:20** | Free Study Time | Digestive system embryology  Dr. Dayanır | Mouth  Dr. Atalar | Gastrointestinal hormones  Dr. Güney | Free Study Time |
| **10:30-11:20** | Digestive system embryology  Dr. Dayanır | General principles of gastrointestinal function  Dr. Güney | Mouth  Dr. Atalar | Anterior abdominal wall and abdominal cavity topography  Dr. Atalar | Regulation of glycolysis and energetics  Dr. Bukan |
| **11:30-12:20** | Digestive system embryology    Dr. Dayanır | General principles of gastrointestinal function  Dr. Güney | Pharynx  Dr. Bahçelioğlu | Inguinal canal  Dr. Atalar | Gluconeogenesis  Dr. Bukan |
| **13:30-14:20** | Mouth  Dr. Atalar | Medical English | Oesophagus  Dr. Bahçelioğlu | Free Study Time | Digestion in the mouth and deglutation  Dr. Güney |
| **14:30-15:20** | Mouth  Dr. Atalar | Medical English | Digestion of carbohydrates  Dr. Bukan | Free Study Time | Digestion in the mouth and deglutation  Dr. Güney |
| **15:30-16:20** | Free Study Time | Elective Courses | Aerobic and anaerobic glycolysis  Dr. Bukan | Free Study Time | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | Free Study Time | Free Study Time | Free Study Time |

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| **2nd WEEK** | **13.01.2025**  **MONDAY** | **14.01.2025**  **TUESDAY** | **15.01.2025**  **WEDNESDAY** | **16.01.2025**  **THURSDAY**  YEAR I THEORETICAL EXAM | **17.01.2025**  **FRIDAY**  YEAR III THEORETICAL EXAM |
| **08:30-09:20** | Free Study Time | **Anatomy Lab 1**  (Group C&D) | Free Study Time | Free Study Time | CSE |
| **09:30-10:20** | Oral cavity, oesophagus and associated structures  Dr. Yığman | **Anatomy Lab 1**  (Group C&D) | Gastric digestion, mechanical and chemical processes  Dr. Güney | Oral cavity, oesophagus and associated structures  Dr. Yığman | CSE |
| **10:30-11:20** | Oral cavity, oesophagus and associated structures  Dr. Yığman | **Anatomy Lab 1**  (Group A&B**)** | Clinical and radiolgraphic anatomy  Dr.Bahçelioğlu | Reciprocal regulation of glycosis and gluconeogenesis  Dr. Bukan | CSE |
| **11:30-12:20** | Gastric digestion, mechanical and chemical processes  Dr. Güney | **Anatomy Lab 1**  (Group A&B) | Clinical and radiolgraphic anatomy  Dr.Bahçelioğlu | Utilization of other carbohydrates to gylcolithic pathway  Dr. Bukan | CSE |
| **13:30-14:20** | Gastric digestion, mechanical and chemical processes  Dr. Güney | Medical English | **Anatomy Lab 2**  (Group C&D) | Large intestine and portal vein  Dr. Atalar | Free Study Time |
| **14:30-15:20** | Stomach  Dr. Atalar | Medical English | **Anatomy Lab 2**  (Group C&D) | Large intestine and portal vein  Dr. Atalar | Glycogenesis and glycogenolysis  Dr. Bukan |
| **15:30-16:20** | Small intestine    Dr. Atalar | Elective Courses | **Anatomy Lab 2**  (Group A&B) | **Analysis of 2nd Committee Exam and Feedback** | Glycogenesis and glycogenolysis  Dr. Bukan |
| **16:30-17:20** | Free Study Time | Elective  Courses | **Anatomy Lab 2**  (Group A&B) | Free Study Time | Free Study Time |

**20.01.2025 - 31.01.2025**

**SEMESTER HOLIDAY**

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| **3rd WEEK** | **03.02.2025**  **MONDAY** | **04.02.2025**  **TUESDAY** | **05.02.2025**  **WEDNESDAY** | **06.02.2025**  **THURSDAY** | **07.02.2025**  **FRIDAY** |
| **08:30-09:20** | Free Study Time | **Histology Lab 1**  (Group C&D)  **Anatomy Lab 3**  (Group A&B) | Free Study Time | Liver and biliary tract  Dr. Atalar | Free Study Time |
| **09:30-10:20** | The penthose phosphate pathway  Dr. Dinçel | **Histology Lab 1**  (Group C&D)  **Anatomy Lab 3**  (Group A&B) | The citric acid cycle and regulation  Dr. Karakaya | Liver and biliary tract  Dr. Atalar | Spleen and  pancreas  Dr. Atalar |
| **10:30-11:20** | The penthose phosphate pathway  Dr. Dinçel | **Histology Lab 1**  (Group A&B)  **Anatomy Lab 3**  (Group C&D) | Biologic oxidation  Dr. Canbolat | The respiratory chain, oxidative phophorylation and ATP synthesis    Dr. Canbolat | Liver  Dr. Özkoçer |
| **11:30-12:20** | The citric acid cycle and regulation  Dr. Karakaya | **Histology Lab 1**  (Group A&B)  **Anatomy Lab 3**  (Group C&D) | Biologic oxidation  Dr. Canbolat | The respiratory chain, oxidative phophorylation and ATP synthesis  Dr. Canbolat | Liver  Dr. Özkoçer |
| **13:30-14:20** | The citric acid cycle and regulation  Dr. Karakaya | Medical English | **Biochemistry Lab 1**  (Group A&B) | **Biochemistry**  **Lab 2**  (Group C&D) | Functions of liver  Dr. Güney |
| **14:30-15:20** | Alimentary canal  Dr. Yığman | Medical English | **Biochemistry Lab 1**  (Group A&B) | **Biochemistry**  **Lab 2**  (Group C&D) | Functions of liver  Dr. Güney |
| **15:30-16:20** | Alimentary canal  Dr. Yığman | Elective Courses | **Biochemistry Lab 1**  (Group C&D) | **Biochemistry**  **Lab 2**  (Group A&B) | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | **Biochemistry Lab 1**  (Group C&D) | **Biochemistry**  **Lab 2**  (Group A&B) | Free Study Time |

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| **4th WEEK** | **10.02.2025**  **MONDAY** | **11.02.2025**  **TUESDAY** | **12.02.2025**  **WENESDAY** | **13.02.2025**  **THURSDAY** | **14.02.2025**  **FRIDAY** |
| **08:30-09:20** | Peritoneum  Dr. Bahçelioğlu | **Biochemistry Lab 3**  (Group A&B) | Free Study Time | **Histology Lab 3**  (Group C&D) | Free Study Time |
| **09:30-10:20** | Peritoneum  Dr. Bahçelioğlu | **Biochemistry Lab 3**  (Group A&B) | Exocrine functions of pancreas    Dr. Güney | **Histology Lab 3**  (Group C&D) | Posterior abdominal wall, abdominal aorta and inferior vena cava  Dr. Atalar |
| **10:30-11:20** | Pancreas and gallbladder  Dr. Özkoçer | **Biochemistry Lab 3**  (Group C&D) | Digestion and absorption of dietary fat  Dr. Bukan | **Histology Lab 3**  (Group A&B) | Posterior abdominal wall, abdominal aorta and inferior vena cava  Dr. Atalar |
| **11:30-12:20** | Pancreas and gallbladder  Dr. Özkoçer | **Biochemistry**  **Lab 3**  (Group C&D) | Digestion and absorption of dietary fat  Dr. Bukan | **Histology Lab 3**  (Group A&B) | Posterior abdominal wall, abdominal aorta and inferior vena cava  Dr. Atalar |
| **13:30-14:20** | Role of biles in digestion  Dr. Güney | Medical English | **Histology Lab 2**  (Group C&D) | Biosynthesis of fatty acis  Dr. Karakaya | Mechanical and chemical events in small intestine  Dr. Güney |
| **14:30-15:20** | Exocrine functions of pancreas  Dr. Güney | Medical  English | **Histology Lab 2**  (Group C&D) | Oxidation of fatty acids  Dr. Karakaya | Absorption and secretion of small intestine  Dr. Güney |
| **15:30-16:20** | Free Study Time | Elective Courses | **Histology Lab 2**  (Group A&B) | Transport and storage of fat  Dr. Bukan | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | **Histology Lab 2**  (Group A&B) | Transport and storage of fat  Dr. Bukan | Free Study Time |

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| **5th WEEK** | **17.02.2025**  **MONDAY** | **18.02.2025**  **TUESDAY** | **19.02.2025**  **WENESDAY** | **20.02.2025**  **THURSDAY** | **21.02.2025**  **FRIDAY** |
| **08:30-09:20** | Free Study Time | Free Study Time | **Histology Lab 4**  (Group A&B)  **Biochemistry**  **Lab 4**  (Group C&D) | Free Study Time | Free Study Time |
| **09:30-10:20** | Questions Analysis of 1st Committee Exam and Feedback | Free Study Time | **Histology Lab 4**  (Group A&B)  **Biochemistry**  **Lab 4**  (Group C&D) | Free Study Time | Free Study Time |
| **10:30-11:20** | Synthesis transport and excretion of cholesterol  Dr. Karakaya | Digestion of proteins, enzymes in stomach and intestines, effects of hormones  Dr. Karakaya | **Histology Lab 4**  (Group C&D)  **Biochemistry**  **Lab 4**  (Group A&B) | System: Energy and metabolic rate in biological systems  Dr.Büyükatalay | Utilization of carbon skeletones of aminoacids in citric acid cycle  Dr. Ünal |
| **11:30-12:20** | Synthesis, utilization and regulation of keton bodies  Dr. Kavutçu | Transamination, oxidative deamination  Dr. Karakaya | **Histology Lab 4**  (Group C&D)  **Biochemistry**  **Lab 4**  (Group A&B) | System: Energy and metabolic rate in biological systems  Dr. Büyükatalay | Glycine synthesis, catabolism utilization of synthetic reaction    Dr. Ünal |
| **13:30-14:20** | Absorption and secretion of small intestine  Dr. Güney | Medical  English | **Histology Lab 5**  (Group A&B)  **Biochemistry Lab 5**  (Group C&D) | Urea cycle, its integration with citric acid cycle  Dr. Karakaya | Thermodynamic systems, enthalpy and entropy: Open, close and isolated systems  Dr. Büyükatalay |
| **14:30-15:20** | Functions of colon  Dr. Güney | Medical  English | **Histology Lab 5**  (Group A&B)  **Biochemistry Lab 5**  (Group C&D) | Regulation of urea cycle and metabolic disorders  Dr. Karakaya | Thermodynamic systems, enthalpy and entropy: Open, close and isolated systems  Dr. Büyükatalay |
| **15:30-16:20** | Free Study Time | Elective  Courses | **Histology Lab 5**  (Group C&D)  **Biochemistry Lab 5**  (Group A&B) | Free Study Time | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | **Histology Lab 5**  (Group C&D)  **Biochemistry Lab 5**  (Group A&B) | Free Study Time | Free Study Time |

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| **6th WEEK** | **24.02.2025**  **MONDAY** | **25.02.2025**  **TUESDAY** | **26.02.2025**  **WENESDAY** | **27.02.2025**  **THURSDAY** | **28.02.2025**  **FRIDAY** |
| **08:30-09:20** | Free Study Time | **Histology Lab 6**  (Group C&D)  **Anatomy Lab 4**  (Group A&B) | Free Study Time | Free Study Time | Free Study Time |
| **09:30-10:20** | Clinical and radiographic anatomy  Dr. Bahçelioğlu | **Histology Lab 6**  (Group C&D)  **Anatomy Lab 4**  (Group A&B) | Free Study Time | Free Study Time | Free Study Time |
| **10:30-11:20** | Clinical and radiographic anatomy  Dr.Bahçelioğlu | **Histology Lab 6**  (Group A&B)  **Anatomy Lab 4**  (Group C&D) | Metabolism of branched chain amino acids, aspartate, asparagine, glutamate, glutamine, proline,  hydroxyproline, arginine  Dr. Ünal | Free Study Time | Heat regulation and transfer mechanisms  Dr. Büyükatalay |
| **11:30-12:20** | Metabolism of serine, alanine, cysteine, methionine and threonine  Dr. Ünal | **Histology Lab 6**  (Group A&B)  **Anatomy Lab 4**  (Group C&D) | Metabolism of branched chain amino acids, aspartate, asparagine, glutamate, glutamine, proline,  hydroxyproline, arginine  Dr. Ünal | Regulation of feeding, obesity and starvation  Dr. Sevgili | Heat regulation and transfer mechanisms  Dr. Büyükatalay |
| **13:30-14:20** | Metabolism of serine, alanine, cysteine, methionine and threonine    Dr. Ünal | Medical English | Metabolism of nucleic acids  Dr. Canbolat | Metabolism of histidine, lysine, hydroxylysine and aromatic amino acid  Dr. Ünal | Regulation of body temperature  Dr. Sevgili |
| **14:30-15:20** | Metabolism of nucleic acids  Dr. Canbolat | Medical English | Energy balance and transformation  Dr. Sevgili | Metabolism of histidine, lysine, hydroxylysine and aromatic amino acid  Dr. Ünal | Free Study Time |
| **15:30-16:20** | Metabolism of nucleic acids  Dr. Canbolat | Elective Courses | Free Study Time | Free Study Time | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | Free Study Time | Free Study Time | Free Study Time |

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| **7th WEEK** | **03.03.2025**  **MONDAY** | **04.03.2025**  **TUESDAY** | **05.03.2025**  **WENESDAY** | **06.03.2025**  **THURSDAY** | **07.03.2025**  **FRIDAY** |
| **08:30-09:20** | Clinical and radiographic anatomy  Dr. Bahçelioğlu | **Physiology**  **Lab1**  (Group A) | **Physiology Lab1**  (Group C) | Free Study Time | **Anatomy**  **Lab 5**  (Group A&B) |
| **09:30-10:20** | Clinical and radiographic anatomy  Dr. Bahçelioğlu | **Physiology**  **Lab1**  (Group A) | **Physiology Lab1**  (Group C) | Free Study Time | **Anatomy**  **Lab 5**  (Group A&B) |
| **10:30-11:20** | Exercise Physiology  Dr. Sevgili | **Physiology**  **Lab1**  (Group B) | **Physiology Lab1**  (Group D) | Biosynthesis of proteins and genetic code    Dr. Canbolat | **Anatomy**  **Lab 5**  (Group C&D) |
| **11:30-12:20** | Exercise Physiology  Dr. Sevgili | **Physiology**  **Lab1**  (Group B) | **Physiology Lab1**  (Group D) | Posttranslational modifications  Dr. Canbolat | **Anatomy**  **Lab 5**  (Group C&D) |
| **13:30-14:20** | Biosynthesis of proteins and genetic code  Dr. Canbolat | Medical English | **Biochemistry**  **Lab 6**  (Group A&B) | Free Study Time | Natural potentials and electrical activities of tissues  Dr.Eşmekaya |
| **14:30-15:20** | Biosynthesis of proteins and genetic code  Dr. Canbolat | Medical English | **Biochemistry**  **Lab 6**  (Group A&B) | Free Study Time | Natural potentials and electrical activities of tissues  Dr.Eşmekaya |
| **15:30-16:20** | Free Study Time | Elective Courses | **Biochemistry**  **Lab 6**  (Group C&D) | Free Study Time | Free Study Time |
| **16:30-17:20** | Free Study Time | Elective  Courses | **Biochemistry**  **Lab 6**  (Group C&D) | Free Study Time | Free Study Time |

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| **8th WEEK** | **10.03.2025**  **MONDAY** | **11.03.2025**  **TUESDAY** | **12.03.2025**  **WENESDAY** | **13.03.2025**  **THURSDAY** | **08.03.2024**  **FRIDAY** |
| **08:30-09:20** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **THEORETICAL**  **EXAM** |  |
| **09:30-10:20** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **THEORETICAL**  **EXAM** |  |
| **10:30-11:20** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **THEORETICAL**  **EXAM** |  |
| **11:30-12:20** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **APPLIED**  **EXAM** | **YEAR II**  **THEORETICAL**  **EXAM** |  |
| **13:30-14:20** | **YEAR II**  **APPLIED**  **EXAM** | Medical English | **YEAR II**  **APPLIED**  **EXAM** | Free Study Time |  |
| **14:30-15:20** | **YEAR II**  **APPLIED**  **EXAM** | Medical English | **YEAR II**  **APPLIED**  **EXAM** | Free Study Time |  |
| **15:30-16:20** | **YEAR II**  **APPLIED**  **EXAM** | Elective Courses | **YEAR II**  **APPLIED**  **EXAM** | Free Study Time |  |
| **16:30-17:20** | **YEAR II**  **APPLIED**  **EXAM** | Elective  Courses | **YEAR II**  **APPLIED**  **EXAM** | Free Study Time |  |