

BIRUNI ENGLISH MEDICAL SCHOOL ACADEMIC PROGRAM BOOK

ENGLISH MEDICAL SCHOOL PHASE I (2022-2023)						
Code	Course Title	C/E	ECTS	T	P	TOTAL
EMS100	Phase I Committee Courses (Integrated)	C	48			
EMS101	Introduction to Medical Education	C	6	35	24	59
EMS102	Medical Sciences I	C	10	89	31	110
EMS103	Medical Sciences II	C	10	119	19	37
EMS104	Medical Sciences III	C	10	75	36	111
EMS105	Medical Sciences IV	C	12	90	24	114
RES100	Medical Research - I (spring)	C	2	28	0	28
CAR003	Career Planning (spring)	C	2	28	0	28
GER101	German I	C	2	28	0	28
GER102	German II	C	2	28	0	28
	Elective Courses	E	4	28	0	28
BIR313	Principles of Health Nutrition	E				
BIR303	Leadership	E				
BIR305	Critical Thinking	E				
BIR317	Time Management and Planning	E				
BIR301	Communication Skills	E				
	TOTAL		60	548	134	682

PHASE I

AIM

Students will gain an appreciation of the role of a futuristic physician with a system based educational approach incorporating clinical and basic sciences, encouraging them to meet patients and start learning medical terminology from the first day.

LEARNING OBJECTIVES

At the end of phase I, the students will be able to;

1. **explain** the basic terms and concepts of medical informatics and biostatistics, medical biology and genetics, medical history and ethics, medical biochemistry, anatomy, biophysics, medical pharmacology, physiology, histology and embryology, medical pathology and medical microbiology.
2. **appraise** and **recognize** the holistic approach of a futuristic physician by combining their knowledge in medical education and medical humanities.
3. **apply** the basic clinical skills in simulated environments and real clinical settings.
4. **demonstrate** the communication skills required to be a competent physician and **practice** the history taking and patient- doctor interview.
5. **define** the basic and clinical aspects of musculoskeletal system and **apply** their knowledge in musculoskeletal system while observing relevant clinical cases.
6. **define** the basic steps of a research study.
7. **analyze** the clinical cases in problem-based learning sessions and demonstrate the skills on problem solving and critical thinking, **practice** USMLE questions.

8. **demonstrate** the skills in teamwork and evidence-based research and **develop** the self-discipline that will help them to learn independently.

Skills

The students will be able to;

1. Demonstrate basic communication skills and professional skills in Introduction to Clinical Practice (ICP) courses in the simulated environment and on models ,
2. Take a detailed anamnesis
3. Apply effective communication techniques in patient-doctor interview.
4. Define and apply the basic information about first aid.
5. Will be able to use basic diagnostic devices like Light microscope etc.
6. Will be able to apply the basic skills like hygienic hand washing, working with biological materials, wearing sterile gloves , intramuscular injection, etc.
7. Will be able to find and distinguish the locations of bones, muscles, etc. on models and cadavers.

Attitudes

The students will be able to;

1. Cooperate with colleagues and work in teams,
2. Internalize the idea that medicine is a respectable and honorable profession,
3. Be aware of the basic duties of the physician and take responsibility.
4. Comprehend features such as problem solving, motivation, self-learning and independent learning with PBL sessions.

GRADUATE COMPETENCIES - PROGRAM OUTCOMES

1. Healthcare Provider
2. Applicator of Professional and Professional Principles
3. Health Advocate
4. Leader
5. Team member
6. Communicator
7. Demonstrator of a Scientific and Analytical Approach
8. Life-long Learner

Contribution of the learning outcomes of the course to the learning outcomes of the program

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	5	5	1	2	2	3	4
LO2	3	2	4	1	2	2	5	5
LO3	3	5	1	1	2	2	5	4
LO4	3	5	4	2	3	2	5	4
LO5	3	3	3	1	3	2	5	5
LO6	3	3	3	1	3	2	5	5

LO7	4	5	4	1	4	3	5	5
LO8	3	4	5	3	2	2	4	5

1.2 MEDICAL SCIENCES I COMMITTEE

AIM

The purpose of this committee is to teach the classification of proteins, carbohydrates, lipids, their basic structures and properties, to teach the cytoskeletal system and interactions between cells, to introduce anatomical structures, to teach the basics of biophysics, to give information about the distribution of data, and to learn basic laboratory and medical applications.

Learning objectives:

At the end of this committee the students;

1. Will gain knowledge about medical statistical methods. Should be able to have information about the distribution of the data and use this information in the analysis of the data.
2. Will gain information about the cytoskeletal system and interactions between cells, organelles and their functions.
3. Will be able to explain the classification, basic structure and properties of proteins, carbohydrates and lipids.
4. Will define the basic principles of biophysics, to understand and explain the biophysical basis of biological functions such as action potential, electrical stimulation of skeletal muscle.
5. Will explain the basic histological concepts and distinguish the cell morphologically.
6. Will explain the basic anatomical concepts.
7. Will be able to explain the physiological concepts to be able to comprehend the intracellular and intercellular interactions.
8. Will be able to provide teamwork in introduction to clinical practices.

Contribution of the learning outcomes of the course to the learning outcomes of the program

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	1	3	1	1	1	1	5	3
LO2	3	5	1	2	3	2	5	4
LO3	3	5	1	1	3	2	5	4
LO4	3	5	1	1	3	2	5	4
LO5	3	5	1	1	3	2	5	4
LO6	3	5	1	1	3	2	5	4
LO7	4	5	1	1	3	2	5	4
LO8	3	5	5	5	5	5	4	5

**COMMITTEE II - PHASE I
MEDICAL SCIENCES I (EMS 102)
DISTRIBUTION of LECTURE HOURS
October 31, 2019 – Dec 9, 2022 (6 WEEKS)**

LECTURES	FACULTY	THEO.	PRAC.	TOTAL
MEDICAL INFORMATICS and BIostatISTICS	YUSUF CELIK, PhD, Prof.	10	0	10
MEDICAL HUMANITIES	TARIF BAKDASH, MD, Prof.	6	0	6
MEDICAL BIOCHEMISTRY	AHMET BELCE, PhD, Prof.	13	3	16
ANATOMY	AHMET SINAV, MD, Prof.	20	22	42
PHYSIOLOGY	SINEM ETHEMOGLU, PhD, Assist. Prof.	8	3	11
INTRODUCTION TO CLINICAL PRACTICE	TUMAY SADIKOGLU, MD, Assist. Prof.	4	0	4
MEDICAL BIOLOGY	GUVEN YENMIS, PhD, Assist. Prof.	18	3	21
BIOPHYSICS	DEMET ERDAG, Lecturer	10	0	10
TOTAL		89	31	120

CLASSROOM: R403

**COMMITTEE II MEDICAL SCIENCES I
WEEK-I**

Oct. 31 - Nov 4, 2022	31.10.2022 MONDAY	1.11.2022 TUESDAY	2.11.2022 WEDNESDAY	3.11.2022 THURSDAY	4.11.2022 FRIDAY
08:30-09:15	ANATOMY Introduction to osteology AHMET SINAV	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
9:25-10:10	ANATOMY Vertebral column AHMET SINAV	INDEPENDENT LEARNING	ANATOMY Thorax AHMET SINAV LAB GROUP I	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	ANATOMY Vertebral column AHMET SINAV	ANATOMY Thorax AHMET SINAV	ANATOMY Thorax AHMET SINAV LAB GROUP II	INDEPENDENT LEARNING	BIOPHYSICS Introduction to Biophysics DEMET ERDAG ONLINE
11:15-12:00	ANATOMY Vertebral column AHMET SINAV LAB GROUP I	ANATOMY Thorax AHMET SINAV	ANATOMY Thorax AHMET SINAV LAB GROUP III	INDEPENDENT LEARNING	BIOPHYSICS Introduction to Biophysics DEMET ERDAG ONLINE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	ANATOMY Vertebral column AHMET SINAV LAB GROUP II	BIostatISTICS Research process and analysis YUSUF CELIK	BIOCHEMISTRY Water, Acid-Base and Buffer Solutions AHMET BELCE	BIOCHEMISTRY Amino acids - II: Acid-Base and Buffer Properties AHMET BELCE	
13:55-14:40	ANATOMY Vertebral column AHMET SINAV LAB GROUP III	BIostatISTICS Research process and analysis YUSUF CELIK	BIOCHEMISTRY Water, Acid-Base and Buffer Solutions AHMET BELCE	BIOCHEMISTRY Amino acids - II: Acid-Base and Buffer Properties AHMET BELCE	INDEPENDENT LEARNING
14:50-15:35	MEDICAL BIOLOGY The general characteristics of the cells-Prokaryotic&eukaryotic cells GUVEN YENMIS	INDEPENDENT LEARNING	INDEPENDENT LEARNING	MEDICAL BIOLOGY The Cell Investigation Methods GUVEN YENMIS	INDEPENDENT LEARNING
15:45-16:30	MEDICAL BIOLOGY The general characteristics of the cells-Prokaryotic&eukaryotic cells GUVEN YENMIS	INDEPENDENT LEARNING	INDEPENDENT LEARNING	MEDICAL BIOLOGY The Cell Investigation Methods GUVEN YENMIS	ONLINE LANGUAGE COURSE (GERMAN)
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)

**COMMITTEE II MEDICAL SCIENCES I
WEEK-II**

Nov. 7 - 11, 2022	7.11.2022 MONDAY	8.11.2022 TUESDAY	9.11.2022 WEDNESDAY	10.11.2022 THURSDAY	11.11.2022 FRIDAY
08:30-09:15	ANATOMY Neurocranium AHMET SINAV	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
9:25-10:10	ANATOMY Neurocranium AHMET SINAV	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	ANATOMY Viscerocranium AHMET SINAV	BIOCHEMISTRY Proteins : Structure and properties of peptides and proteins AHMET BELCE	PHYSIOLOGY Introduction of Human Physiology and Homeostasis SINEM ETHEMOGLU	INDEPENDENT LEARNING	BIOPHYSICS Molecular structure of living systems DEMET ERDAG ONLINE
11:15-12:00	ANATOMY Viscerocranium AHMET SINAV	BIOCHEMISTRY Proteins : Structure and properties of peptides and proteins AHMET BELCE	PHYSIOLOGY Introduction of Human Physiology and Homeostasis SINEM ETHEMOGLU	INDEPENDENT LEARNING	BIOPHYSICS Molecular structure of living systems DEMET ERDAG ONLINE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	ANATOMY Neurocranium & Viscerocranium LAB AHMET SINAV GROUP I	BIOSTATISTICS Descriptive statistics and probability in the medical literature YUSUF CELIK	BIOCHEMISTRY Proteins : Classification of proteins AHMET BELCE	INDEPENDENT LEARNING	
13:55-14:40	ANATOMY Neurocranium & Viscerocranium LAB AHMET SINAV GROUP II	BIOSTATISTICS Descriptive statistics and probability in the medical literature YUSUF CELIK	BIOCHEMISTRY Carbohydrates - I: Structure and Classification AHMET BELCE	INDEPENDENT LEARNING	INDEPENDENT LEARNING
14:50-15:35	ANATOMY Neurocranium & Viscerocranium LAB AHMET SINAV GROUP III	ICP Teamwork in medicine TUMAY SADIKOGLU	MEDICAL HUMANITIES Goals of Medicine TARIF BAKDASH ONLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING	ICP presentation skills TUMAY SADIKOGLU	MEDICAL HUMANITIES Goals of Medicine TARIF BAKDASH ONLINE	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)

**COMMITTEE II MEDICAL SCIENCES I
WEEK-III**

Nov. 14 - 18, 2022	14.11.2022 MONDAY	15.11.2022 TUESDAY	16.11.2022 WEDNESDAY	17.11.2022 THURSDAY	18.11.2022 FRIDAY
08:30-09:15	ANATOMY Skull overview AHMET SINAV	ANATOMY Upper extremity bones AHMET SINAV	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP III	INDEPENDENT LEARNING	INDEPENDENT LEARNING
9:25-10:10	ANATOMY Skull overview LAB AHMET SINAV GROUP II	ANATOMY Upper extremity bones AHMET SINAV	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP III	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	ANATOMY Skull overview LAB AHMET SINAV GROUP III	ANATOMY Upper extremity bones AHMET SINAV	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP II	BIOPHYSICS Radioactivity DEMET ERDAG ONLINE	INDEPENDENT LEARNING
11:15-12:00	ANATOMY Skull overview LAB AHMET SINAV GROUP I	ANATOMY Upper extremity bones AHMET SINAV	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP II	BIOPHYSICS Radioactivity DEMET ERDAG ONLINE	INDEPENDENT LEARNING
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	MEDICAL BIOLOGY The structure and functions of the cell membrane GUVEN YENMIS	BIOSTATISTICS Population distributions, sample size and sampling methods for research YUSUF CELIK	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP I	PHYSIOLOGY Cell Physiology and Membrane Transport SINEM ETHEMOGLU	
13:55-14:40	MEDICAL BIOLOGY The structure and functions of the cell membrane GUVEN YENMIS	BIOSTATISTICS Population distributions, sample size and sampling methods for research YUSUF CELIK	ANATOMY Upper extremity bones AHMET SINAV LAB GROUP I	PHYSIOLOGY Cell Physiology and Membrane Transport SINEM ETHEMOGLU	INDEPENDENT LEARNING
14:50-15:35	INDEPENDENT LEARNING	INDEPENDENT LEARNING	MEDICAL HUMANITIES Suffering and Hope TARIF BAKDASH ONLINE	MEDICAL BIOLOGY Cell organization and polarity GUVEN YENMIS	INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING	INDEPENDENT LEARNING	MEDICAL HUMANITIES Suffering and Hope TARIF BAKDASH ONLINE	MEDICAL BIOLOGY The Structure, Function, and Biosynthesis of The Ribosome GUVEN YENMIS	ONLINE LANGUAGE COURSE (GERMAN)
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)

COMMITTEE II MEDICAL SCIENCES I
WEEK- IV

Nov. 21 - 25, 2022	21.11.2022 MONDAY	22.11.2022 TUESDAY	23.11.2022 WEDNESDAY	24.11.2022 THURSDAY	25.11.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
9:25-10:10	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	BIOCHEMISTRY Carbohydrates - II: Monosaccharides, Glycosides, Oligosaccharides, Polysaccharides AHMET BELCE	INDEPENDENT LEARNING	PHYSIOLOGY Intercellular Communication and Secondary Messenger System SINEM ETHEMOGLU	MEDICAL BIOLOGY The Phagocytosis, Pinocytosis, and Receptor Mediated Endocytosis GUVEN YENMIS	BIOPHYSICS Radiation Biophysics DEMET ERDAG ONLINE
11:15-12:00	BIOCHEMISTRY Polysaccharides and Glycoproteins, Proetoglycans, Mucopolysaccharides AHMET BELCE	INDEPENDENT LEARNING	PHYSIOLOGY Intercellular Communication and Secondary Messenger System SINEM ETHEMOGLU	MEDICAL BIOLOGY The Phagocytosis, Pinocytosis, and Receptor Mediated Endocytosis GUVEN YENMIS	BIOPHYSICS Radiation Biophysics DEMET ERDAG ONLINE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	MEDICAL BIOLOGY Mitochondria and Mitochondrial DNA GUVEN YENMIS	BIOSTATISTICS Hypothesis tests used in medical research YUSUF CELIK	ICP Effective presentation skills TUMAY SADIKOGLU STUDENT PRESENTATIONS	PHYSIOLOGY Cell Physiology Laboratory SINEM ETHEMOGLU LAB GROUP III	
13:55-14:40	MEDICAL BIOLOGY Mitochondria and Mitochondrial DNA GUVEN YENMIS	BIOSTATISTICS Hypothesis tests used in medical research YUSUF CELIK	ICP Effective presentation skills TUMAY SADIKOGLU STUDENT PRESENTATIONS	PHYSIOLOGY Cell Physiology Laboratory SINEM ETHEMOGLU LAB GROUP II	INDEPENDENT LEARNING
14:50-15:35	INDEPENDENT LEARNING	BIOCHEMISTRY Lipids: Structural Features and Classification Isoprene Derived Lipids: Polyrenoids, Steroids AHMET BELCE	MEDICAL BIOLOGY The Structure and Functions of the Endoplasmic Reticulum GUVEN YENMIS	PHYSIOLOGY Cell Physiology Laboratory SINEM ETHEMOGLU LAB GROUP I	INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING	BIOCHEMISTRY Lipids: Fatty Acids, Triacylglycerol, Phospholipids, Glycolipids Plasma Lipoproteins AHMET BELCE	MEDICAL BIOLOGY The Structure and Functions of the Endoplasmic Reticulum GUVEN YENMIS	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)

COMMITTEE II MEDICAL SCIENCES I
WEEK- V

Nov 28 - Dec 2, 2022	28.11.2022 MONDAY	29.11.2022 TUESDAY	30.12.2022 WEDNESDAY	1.12.2022 THURSDAY	2.12.2022 FRIDAY
08:30-09:15	ANATOMY Lower extremity bones AHMET SINAV	INDEPENDENT LEARNING	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP II	INDEPENDENT LEARNING	INDEPENDENT LEARNING
9:25-10:10	ANATOMY Lower extremity bones AHMET SINAV	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP I	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP II	BIOCHEMISTRY Safety and Laboratory Tools and Equipments in Biochemistry Laboratory AHMET BELCE LAB GROUP I	INDEPENDENT LEARNING
10:20-11:05	ANATOMY Lower extremity bones AHMET SINAV	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP I	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP III	BIOCHEMISTRY Safety and Laboratory Tools and Equipments in Biochemistry Laboratory AHMET BELCE LAB GROUP II	BIOPHYSICS Introduction to Bioenergetics DEMET ERDAG ONLINE
11:15-12:00	ANATOMY Lower extremity bones AHMET SINAV	BIOCHEMISTRY Nucleotides and Nucleic Acids: Structure and Functions AHMET BELCE	ANATOMY Lower extremity bones AHMET SINAV LAB GROUP III	BIOCHEMISTRY Safety and Laboratory Tools and Equipments in Biochemistry Laboratory AHMET BELCE LAB GROUP III	BIOPHYSICS Introduction to Bioenergetics DEMET ERDAG ONLINE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	MEDICAL BIOLOGY The Golgi complex and the mechanisms of protein sorting GUVEN YENMIS	BIOSTATISTICS Student's t test in various designs of medical data YUSUF CELIK	PHYSIOLOGY Cell membrane resting potential and action potential SINEM ETHEMOGLU	MEDICAL BIOLOGY The examination of the Cell GUVEN YENMIS LAB- Group 1	
13:55-14:40	MEDICAL BIOLOGY The Golgi complex and the mechanisms of protein sorting GUVEN YENMIS	BIOSTATISTICS Student's t test in various designs of medical data YUSUF CELIK	PHYSIOLOGY Cell membrane resting potential and action potential SINEM ETHEMOGLU	MEDICAL BIOLOGY The examination of the Cell GUVEN YENMIS LAB - Group 2	INDEPENDENT LEARNING
14:50-15:35	INDEPENDENT LEARNING	INDEPENDENT LEARNING	MEDICAL BIOLOGY The lysosome and proteosome GUVEN YENMIS	MEDICAL BIOLOGY The examination of the Cell GUVEN YENMIS LAB- Group 3	INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING	MEDICAL HUMANITIES Religion and Bioethics TARIF BAKDASH ONLINE	MEDICAL BIOLOGY The lysosome and proteosome GUVEN YENMIS	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)
16:40-17:25	INDEPENDENT LEARNING	MEDICAL HUMANITIES Religion and Bioethics TARIF BAKDASH ONLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	ONLINE LANGUAGE COURSE (GERMAN)

COMMITTEE II MEDICAL SCIENCES I
WEEK- VI

Dec. 5 - 9, 2020	5.12.2022 MONDAY	6.12.2022 TUESDAY	7.12.2022 WEDNESDAY	8.12.2022 THURSDAY	9.12.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	COMMITTEE EXAM
9:25-10:10	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
10:20-11:05	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
11:15-12:00	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
LUNCH BREAK	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
13:00-13:45	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
13:55-14:40	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
11:50-15:35	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	