

COURSE INFORMATION					
Course Title	Code	Phase/Semester	L+P Hour	Credits	ECTS
Emergency Medicine	MED650			5	5

Prerequisites	MED102, MED302, MED413
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Language of Instruction	English
Course Level	UG
Course Type	Elective
Course Coordinators	Sezgin Sarıkaya, MD. Prof.
Instructors	Mustafa Ferudun Çelikmen , MD. Asst.Prof. Pınar Tura, MD. Asst. Prof. Mustafa Yazıcıoğlu, MD. Asst. Prof. Emin Gökhan Gencer, MD. Asst. Prof. Cem Şimşek, MD. Asst. Prof. Barış Murat Ayvacı. MD. Asst. Prof. Merve Ekşioğlu, MD. Asst. Prof. Deniz Algedik Gürsoy, MD. Emergency Med. Specialist. Eren Gökdağ, MD. Emergency Med. Specialist.
Assistants	İstemi Sıddıka Oğraş Yunus Emre Vural
Goals	The aim of this elective course is to equip the intern with enriched knowledge and the skills about the main topics of emergency medicine
Content	<ul style="list-style-type: none"> • Basic and advanced airway management techniques • Approach to chest pain • Approach to dispnea • Approach to a polytrauma patient • Management of an intoxicated patient • Basic and advanced life support • Advanced trauma life support • Shock definitions and treatment • Interpretation of EKG • Basic principles of disaster management • Acute coronary syndromes • Pulmonary embolism • Tension pneumothorax • Aortic dissection • Aortic aneurysm

Learning Outcomes Graduate should be able to	Program Outcomes	Teaching Methods	Assessment Methods
<ul style="list-style-type: none"> perform basic and advanced airway procedures, basic life support 	2.1	1,2,3,5	C
<ul style="list-style-type: none"> perform advanced cardiac and trauma life support for adults and children 	2.2	1,2,3,5	C
<ul style="list-style-type: none"> approach to a patient with chest pain/ abdominal pain /shortness of breath 	2.3	1,2,3,5	C
<ul style="list-style-type: none"> manage with a polytrauma patient 	2.4	1,2,3,5	C
<ul style="list-style-type: none"> differentiate the reasons of chest pain and treat acute coronary syndromes 	2.5	1,2,3,5	C
<ul style="list-style-type: none"> explain the types of shock, manage with a shock patient, define the differentials, select the proper treatment 	2.6	1,2,3,5	C
<ul style="list-style-type: none"> define the rhythm on ECG, approach to a patient with tachycardia/bradycardia 	2.7	1,2,3,5	C
<ul style="list-style-type: none"> explain the toxidromes and approach to an intoxicated patient 	2.8	1,2,3,5	C
<ul style="list-style-type: none"> arrange necessary consultation with physicians and other professionals when needed 	2.10	1,2,3,5	C
<ul style="list-style-type: none"> recognize and resolve interpersonal conflict in the emergency department including conflicts with patients and family 	3.3	1,2,3,5	C
<ul style="list-style-type: none"> communicate risks, benefits, and alternatives to therapeutic interventions to patients and/or appropriate surrogates, and obtain consent when indicated 	3.5	1,2,3,5	C

<ul style="list-style-type: none"> communicate information to patients and families using verbal, nonverbal, written, and technological skills, and confirm understanding 	3.4	1,2,3,5	C
<ul style="list-style-type: none"> establish rapport with and demonstrate empathy toward patients and their families 	3.2	1,2,3,5	C
<ul style="list-style-type: none"> consider the expectations of those who provide or receive care in the ED and use communication methods that minimize the potential for stress, conflict, and miscommunication 	3.1	1,2,3,5	C
<ul style="list-style-type: none"> explain the basic principles of disaster management 	2.9	1,2,3,5	C

Teaching/Learning Methods:	<ul style="list-style-type: none"> CONTACT HOURS (CH) 1. Theoretical-Class/Auditorium/Conference Hall/Multimedia <ul style="list-style-type: none"> 1.1. Lecture/Tutorial 1.2. Case report 1.3. Case presentation 1.4. Research seminar 1.5. Seminar 1.6. Student seminar/Journal club 1.7. Invited speaker 1.8. Hospital conference 1.9. Online/Distance or e-learning (paper based or ICT based) 1.10. Other: 2. Theoretical-Group Activity/Interactive <ul style="list-style-type: none"> 2.1. Case discussion 2.2. Discussion class 2.3. Small group study session/Problem solving session/Brainstorm session 2.4. Exercise class 2.5. Oral presentation and criticism 2.6. Panel 2.7. Workshop 2.8. Online/Distance or e-learning (paper based or ICT based) 2.9. Other:
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| | <ul style="list-style-type: none"> 3. Practice Based-Laboratory/Class <ul style="list-style-type: none"> 3.1. Demonstration class 3.2. Laboratory teaching 3.3. Clinical skills laboratory 3.4. Small group study session/Problem solving session 3.5. Exercise class 3.6. Workshop (practical class) 3.7. Other: 4. Clerkship (Clinical practice and training) <ul style="list-style-type: none"> 4.1. Field study/Fieldwork 4.2. Outpatient clinic 4.3. Patient bedside 4.4. Imaging round 4.5. Laboratory round 4.6. Work based practice 4.7. Grand round 4.8. Operating room 4.9. Invasive Intervention room 4.10. Night shift at ward 4.11. Night shift at intensive care unit 4.12. Night shift at emergency care unit 4.13. Other: 5. Work placement/Internship (Clinical performance under supervision) <ul style="list-style-type: none"> 5.1. Field study/Fieldwork 5.2. Outpatient clinic 5.3. Patient bedside 5.4. Imaging round 5.5. Laboratory round 5.6. Work based practice 5.7. Grand round 5.8. Operating room 5.9. Invasive intervention room 5.10. Night shift at ward 5.11. Night shift at intensive care unit 5.12. Night shift at emergency care unit 5.13. Other: • INDEPENDENT STUDY HOURS (ISH) 6. KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation) <ul style="list-style-type: none"> 6.1. Theoretical/Written/Oral exam/s 6.2. Presentation 6.3. Seminar 6.4. Discussion 6.5. Session 6.6. Research paper writing 6.7. Project writing 6.8. Report writing 6.9. Dissertation writing 6.10. Homework |
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	<p>6.11. Investigation/Survey study</p> <p>6.12. Other:</p> <p>7. SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization)</p> <p>7.1. Oral/practical exam/s</p> <p>7.2. Presentation</p> <p>7.3. Seminar</p> <p>7.4. Discussion</p> <p>7.5. Session</p> <p>7.6. Exercise</p> <p>7.7. Workshop</p> <p>7.8. Imaging round</p> <p>7.9. Laboratory round</p> <p>7.10. Grand round</p> <p>7.11. Other:</p> <p>8. ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization)</p> <p>8.1. Questionnaire (self-assessment)</p> <p>8.2. Paper case</p> <p>8.3. Other:</p> <p>9. COMPETENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)</p> <p>9.1. Portfolio preparation</p> <p>9.2. Clinical performance at outpatient wards</p> <p>9.3. Clinical performance at inpatient wards</p> <p>9.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit)</p> <p>9.5. Other: (e.g. mini-clinical exam, etc.)</p> <p>10. PROFICIENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)</p> <p>10.1. Portfolio preparation</p> <p>10.2. Clinical performance at outpatient wards</p> <p>10.3. Clinical performance at inpatient wards</p> <p>10.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit)</p> <p>10.5. Other: (e.g. mini-clinical exam, etc.)</p>
<p>Assessment Methods:</p>	<p>A. Knowledge Assessment</p> <p>a. Written Exam (MCQ+EMQ+KFQ) (F, S)</p> <p>b. Objectively Structured Oral Examination (S)</p> <p>c. Oral Examination (F)</p> <p>d. Other:</p> <p>B. Skills Assessment</p> <p>a. Practical Examination (F)</p> <p>b. Objectively Structured Practical Examination (S)</p> <p>c. Mini Clinical Examination (S)</p> <p>d. Other:</p>

	<p>C. Attitude Assessment</p> <ol style="list-style-type: none"> Mini Clinical Examination (S) Questionnaire (self-assessment) (F) Paper case (S) Observation of behaviour (360°) (F, S) Other: <p>D. Competency Assessment</p> <ol style="list-style-type: none"> Mini Clinical Examination (S) Clerkship/Internship Guide/Checklist Assessment (F, S) Professional Portfolio Assessment (F) Presentation Performance Assessment (F) Seminar Performance Assessment (F) Project Writing Assessment (S) Other: <p>E. Proficiency Assessment</p> <ol style="list-style-type: none"> Mini Clinical Examination (S) Clerkship/Internship Guide/Checklist Assessment (F, S) Professional Portfolio Assessment (F) Presentation Performance Assessment (F) Seminar Performance Assessment (F) Other: <p>*F: Formative, S: Summative</p>
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COURSE CONTENT

For Detailed information:

Week	Topics	Study Materials																														
1	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Day 1</th> <th style="width: 20%;">Day 2</th> <th style="width: 20%;">Day 3</th> <th style="width: 20%;">Day 4</th> <th style="width: 20%;">Day 5</th> </tr> </thead> <tbody> <tr> <td style="background-color: #e0f2f1;"> Introductory Session Introduction to <i>Emergency Medicine</i> Sezgin Sarikaya </td> <td style="background-color: #ffe0b2;">Ward Round</td> <td style="background-color: #fff9c4;"> Multi-disciplinary Case Discussion Conference Hall </td> <td style="background-color: #ffe0b2;">Ward Round</td> <td style="background-color: #ffe0b2;">Ward Round</td> </tr> <tr> <td style="background-color: #fff9c4;"> Resuscitation Basic Principles of Airway Management and DAI Mustafa Yaziciođlu Difficult Airway and Alternate Airway Devices Barış Murat Ayyacı </td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> <td style="background-color: #fff9c4;"> Mechanical Ventilation Principles Mustafa Yaziciođlu CBRN-E Mustafa Ferudun Çelikmen </td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> </tr> <tr> <td style="background-color: #fff9c4;">Lunch</td> <td style="background-color: #fff9c4;">Lunch</td> <td style="background-color: #fff9c4;">Lunch</td> <td style="background-color: #fff9c4;">Lunch</td> <td style="background-color: #fff9c4;">Lunch</td> </tr> <tr> <td style="background-color: #fff9c4;"> Basic and Advanced Life Support for Adults Eren Gökdağ Basic and Advanced Life Support for Children Merve Ekşiođlu </td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> <td style="background-color: #fff9c4;"> Intoxicated Patient Pınar Tura Intern Presentation Journal Club </td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> <td style="background-color: #ffe0b2;">Clinical Experience (Outpatient)</td> </tr> <tr> <td style="background-color: #bbdefb;">Night Shift</td> <td style="background-color: #bbdefb;">Night Shift</td> <td style="background-color: #bbdefb;">Night Shift</td> <td style="background-color: #bbdefb;">Night Shift</td> <td style="background-color: #bbdefb;">Night Shift</td> </tr> </tbody> </table>	Day 1	Day 2	Day 3	Day 4	Day 5	Introductory Session Introduction to <i>Emergency Medicine</i> Sezgin Sarikaya	Ward Round	Multi-disciplinary Case Discussion Conference Hall	Ward Round	Ward Round	Resuscitation Basic Principles of Airway Management and DAI Mustafa Yaziciođlu Difficult Airway and Alternate Airway Devices Barış Murat Ayyacı	Clinical Experience (Outpatient)	Mechanical Ventilation Principles Mustafa Yaziciođlu CBRN-E Mustafa Ferudun Çelikmen	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Lunch	Lunch	Lunch	Lunch	Lunch	Basic and Advanced Life Support for Adults Eren Gökdağ Basic and Advanced Life Support for Children Merve Ekşiođlu	Clinical Experience (Outpatient)	Intoxicated Patient Pınar Tura Intern Presentation Journal Club	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Night Shift	Night Shift	Night Shift	Night Shift	Night Shift	Textbook, Lecture Notes, Guidelines, Case Files
	Day 1	Day 2	Day 3	Day 4	Day 5																											
	Introductory Session Introduction to <i>Emergency Medicine</i> Sezgin Sarikaya	Ward Round	Multi-disciplinary Case Discussion Conference Hall	Ward Round	Ward Round																											
	Resuscitation Basic Principles of Airway Management and DAI Mustafa Yaziciođlu Difficult Airway and Alternate Airway Devices Barış Murat Ayyacı	Clinical Experience (Outpatient)	Mechanical Ventilation Principles Mustafa Yaziciođlu CBRN-E Mustafa Ferudun Çelikmen	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)																											
	Lunch	Lunch	Lunch	Lunch	Lunch																											
	Basic and Advanced Life Support for Adults Eren Gökdağ Basic and Advanced Life Support for Children Merve Ekşiođlu	Clinical Experience (Outpatient)	Intoxicated Patient Pınar Tura Intern Presentation Journal Club	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)																											
Night Shift	Night Shift	Night Shift	Night Shift	Night Shift																												

2	Day 1	Day 2	Day 3	Day 4	Day 5	Textbook, Lecture Notes, Guidelines, Case Files
	Ward Round	Ward Round	Multi-disciplinary Case Discussion Conference Hall	Ward Round	Ward Round	
	Cardiac and Respiratory Emergencies STEMI / NSTEMI Barış Murat Ayyacı USAP and Risk Stratification Pinar Tura Rhythm Disturbances and Appropriate Treatment Cem Şimşek	Clinical Experience (Outpatient)	Toxidromes Emin Gökhan Gencer Street Drugs Cem Şimşek	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	Lunch	Lunch	Lunch	Lunch	Lunch	
	Shortness of Breath Eren Gökdağ Pulmonary Embolism Barış Murat Ayyacı	Clinical Experience (Outpatient)	Intern Presentation Journal Club	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	Night Shift	Night Shift	Night Shift	Night Shift	Night Shift	
3	Day 1	Day 2	Day 3	Day 4	Day 5	Textbook, Lecture Notes, Guidelines, Case Files
	Ward Round	Ward Round	Multi-disciplinary Case Discussion Conference Hall	Ward Round	Ward Round	
	Trauma Management of Polytrauma Patient Mustafa Ferudun Çelikmen Abdominal and Chest Trauma Cem Şimşek Head and Spinal Trauma Sezgin Sarıkaya	Clinical Experience (Outpatient)	Intern Presentation Journal Club	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	Lunch	Lunch	Lunch	Lunch	Lunch	
	Pelvic Trauma and Transfusion Principles Emin Gökhan Gencer Shock Emin Gökhan Gencer	Clinical Experience (Outpatient)	Intern Presentation Journal Club	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	Night Shift	Night Shift	Night Shift	Night Shift	Night Shift	

	Day 1	Day 2	Day 3	Day 4	Day 5	
4	Ward Round	Ward Round	Multi-disciplinary Case Discussion Conference Hall	Ward Round	Ward Round	Textbook, Lecture Notes, Guidelines, Case Files
	Neurological Emergencies Headache Sezgin Sarikaya Stroke Pinar Tura Altered Mental Status Merve Ekşiođlu	Clinical Experience (Outpatient)	Student-Centred, Symptom- Based Learning Session All Groups Conference Hall	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	Lunch	Lunch	Lunch	Lunch	Lunch	
	Vertigo Merve Ekşiođlu TIA Eren Gökdađ	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Program Evaluation Session Review of the learning aims, Evaluation of the Course Program Head of Emergency Department	
	Night Shift	Night Shift	Night Shift	Night Shift	Night Shift	

RECOMMENDED SOURCES	
Textbooks	<ul style="list-style-type: none"> Rosen's Emergency Medicine Concepts and Clinical Practice 9th Edition
Additional Resources	<ul style="list-style-type: none"> www.uptodate.com www.clinicalkey.com

MATERIAL SHARING	
Documents	Shared
Assignments	Shared
Exams	

ASSESSMENTS

For further details please see Academic Program Book of Phase VI at https://med.yeditepe.edu.tr/sites/default/files/phase_6_apk_2019_19.12.2019_baski.pdf

Assessment Approaches, assessment methods and assessment tools that used in Phase VI, Clerkship Programs are shown in below table.

This table shows question types and assessment methods/tools used in training program.

Other Assessment Methods and Tools	Proportion (in Other Assessment Methods and Tools)
Evaluation of Student Presentation	100%
Total	100 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Other Assessment Methods and Tools	100%
Total	100%

COURSE CATEGORY

Elective

COURSE'S CONTRIBUTION TO PROGRAM					
Program Learning Outcomes (APK)	Contribution				
	1	2	3	4	5

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
ACTIVITIES	#	Time (hour)	Workload (hour)
TEACHING/LEARNING ACTIVITIES			
CONTACT HOURS			
Theoretical-Class/Auditorium/Conference Hall/Multimedia			
Lecture/Tutorial			0.00
Case report			0.00
Case presentation			0.00
Research seminar			0.00
Seminar			0.00
Student seminar/Journal club			0.00
Invited speaker			0.00
Hospital conference			0.00
Online/Distance or e-learning (paper based or ICT based)			0.00
Other:			0.00

Theoretical-Group Activity/Interactive			
Case discussion			0.00
Discussion class			0.00
Small group study session/Problem solving session/Brainstorm session			0.00
Exercise class			0.00
Oral presentation and criticism			0.00
Panel			0.00
Workshop			0.00
Online/Distance or e-learning (paper based or ICT based)			0.00
Other:			0.00
Practice Based-Laboratory/Class			
Demonstration class			0.00
Laboratory teaching			0.00
Clinical skills laboratory			0.00
Small group study session/Problem solving session			0.00
Exercise class			0.00
Workshop (practical class)			0.00
Other:			0.00
Clerkship (Clinical practice and training)			
Field study/Fieldwork			0.00
Outpatient clinic			0.00
Patient bedside			0.00
Imaging round			0.00
Laboratory round			0.00
Work based practice			0.00
Grand round			0.00
Operating room			0.00
Invasive Intervention room			0.00
Night shift at ward			0.00
Night shift at intensive care unit			0.00
Night shift at emergency care unit			0.00
Other:			0.00
Work placement/Internship (Clinical performance under supervision)			
Field study/Fieldwork			0.00
Outpatient clinic			0.00
Patient bedside			0.00
Imaging round			0.00
Laboratory round			0.00
Work based practice			0.00
Grand round			0.00
Operating room			0.00
Invasive intervention room			0.00
Night shift at ward			0.00

Night shift at intensive care unit			0.00
Night shift at emergency care unit			0.00
Other:			0.00
INDEPENDENT STUDY HOURS			
KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation)			
Theoretical/Written/Oral exam/s			0.00
Presentation			0.00
Seminar			0.00
Discussion			0.00
Session			0.00
Research paper writing			0.00
Project writing			0.00
Report writing			0.00
Dissertation writing			0.00
Homework			0.00
Investigation/Survey study			0.00
Other:			0.00
SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization)			
Oral/practical exam/s			0.00
Presentation			0.00
Seminar			0.00
Discussion			0.00
Session			0.00
Exercise			0.00
Workshop			0.00
Imaging round			0.00
Laboratory round			0.00
Grand round			0.00
Other:			0.00
ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization)			
Questionnaire (self-assessment)			0.00
Paper case			0.00
Other:			0.00
COMPETENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)			
Portfolio preparation			0.00
Clinical performance at outpatient wards			0.00
Clinical performance at inpatient wards			0.00

Clinical performance at night shifts (ward, emergency care unit, intensive care unit)			0.00
Other: (e.g. mini-clinical exam, etc.)			0.00
PROFICIENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)			
Portfolio preparation			0.00
Clinical performance at outpatient wards			0.00
Clinical performance at inpatient wards			0.00
Clinical performance at night shifts (ward, emergency care unit, intensive care unit)			0.00
Other: (e.g. mini-clinical exam, etc.)			0.00
ASSESSMENT/APPRAISAL MODES (F: Formative, S: Summative)			
Knowledge Assessment			
Written Exam (MCQ+EMQ+KFQ) (F, S)			0.00
Objectively Structured Oral Examination (S)			0.00
Oral Examination (F)			0.00
Other:			0.00
Skills Assessment			
Practical Examination (F)			0.00
Objectively Structured Practical Examination (S)			0.00
Mini Clinical Examination (S)			0.00
Other: Objectively Structured Clinical Examination (OSCE) (S)			0.00
Attitude Assessment			
Mini Clinical Examination (S)			0.00
Questionnaire (self-assessment) (F)			0.00
Paper case (S)			0.00
Observation of behavior (360°) (F, S)			0.00
Other:			0.00
Competency Assessment			
Mini Clinical Examination (S)			0.00
Clerkship/Internship Guide/Checklist Assessment (F, S)			0.00
Professional Portfolio Assessment (F)			0.00
Presentation Performance Assessment (F)			0.00
Seminar Performance Assessment (F)			0.00
Project Writing Assessment (S)			0.00
Other:			0.00
Proficiency Assessment			
Mini Clinical Examination (S)			0.00
Clerkship/Internship Guide/Checklist Assessment (F, S)			0.00
Professional Portfolio Assessment (F)			0.00
Presentation Performance Assessment (F)			0.00

Seminar Performance Assessment (F)			0.00
Other:			0.00
Total Workload per Course			
ECTS Credits per Course (Exact)			
ECTS Credits per Course (Rounded)			
Course Dates Group A-1 (Beginning)			
Course Dates Group A-1 (Completion)			
Course Dates Group A-2 (Beginning)			
Course Dates Group A-2 (Completion)			
Course Dates Group B-1 (Beginning)			
Course Dates Group B-1 (Completion)			
Course Dates Group B-2 (Beginning)			
Course Dates Group B-2 (Completion)			
Total number of days per course (excluding mid-term break, including weekends, holidays)			
Total number of weeks per course (excluding mid-term break, including weekends, holidays)			
Total number of hours per course (excluding mid-term break, including weekends, holidays)			
EDUCATIONAL ACTIVITY RATIO (% hours/hours)			