

Subject group “Economics and Humanities”

Economics for Engineers

Code: MK3KOZMM04XX17-EN

ECTS Credit Points: 4

Evaluation: mid-semester grade

Year, Semester: 1st year, 1th semester

Its prerequisite(s): -

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 2+0

Topics:

Measuring Economic Output and National Income. The Keynesian Theory of consumption. The Government and Fiscal policy. Open Economy. Money market. The aggregate demand and aggregate supply. The labour market. Unemployment. Inflation.

Literature:

Compulsory:

- Mankiw, Gregory: Principles of Economics. Fifth Edition. South-Western, Mason, USA, 2009. ISBN: 9780324589979.
- Mankiw, Gregory (2015): Principles of Economics. Study Guide. Seventh Edition. Cengage Learning, ISBN-13:978-1-285-86421-1.
- Judit T. Kiss (2014): Introduction to Macroeconomics for Engineers and Technical Managers. Debrecen University Press. ISBN: 978-963-318-416-5.

Recommended:

- K. E. Case – R. C. Fair – S. M. Oster (2012): Principles of Macroeconomics, Tenth Edition. Prentice Hall, ISBN 13: 978-0-13-139140-6.
- Samuelson P.A., Nordhaus W.D.: Economics, 18th edition, Academic Internet Publishers Inc., 2006. ISBN: 0072872055
- Parkin, M., Powell, M. & Matthews, K. (2008) Economics. 7th ed. Harlow: AddisonWesley. ISBN-13: 9780132041225
- Parkin, M (2005) Economics, 7th edn, Addison Wersley: Pearson. ISBN: 0321248449.

Schedule

1st week Registration week

2nd week:

Lecture: The Scope and Method of Economics

Introduction to economics. The method of economics. Microeconomics and Macroeconomics. Models in Economics. Introduction to Macroeconomics. The components of the Macroeconomics. The circular flow Diagram. Market sectors.

Calculation/team problems: The circular flow Diagram. Case study examination.

3rd week:

Lecture: Measuring national output and national income (Gross Output, Gross Domestic Product, calculating GDP, real versus nominal GDP, the components of the GDP, the expenditure approach, the income approach, GDP deflator, Gross National Income, and Gross National Disposable income). Measuring the cost of living (GDP and Social Welfare, the Consumer Price Index, GDP deflator versus CPI, real and nominal interest rate).

Calculation/team problems: The expenditure approach. The difference between real GDP and nominal GDP. Macroeconomic indicators.

4th week:

Lecture: Market demand and supply, equilibrium. The Keynesian Theory of consumption, consumption function, marginal propensity to consume, planned investment, saving function, marginal propensity to saving, aggregate output, determination of equilibrium output, the multiplier, IS curve.

Calculation/team problems: Market demand and supply, equilibrium. Two sector model.

6th week:

Lecture: Demand and supply in an open economy. Equilibrium output in an Open Economy, net exports. Imports and exports and Trade Feedback effect. Measurement of openness. Exchange rates.

Calculation/team problems: Demand and supply in an open economy. Equilibrium output in an Open Economy, net exports.

8th week: 1st drawing week**9th week:**

Lecture: The demand for money. Supply and demand in the money market. The equilibrium interest rate. The LM curve. The equilibrium price-level.

11th week:

Lecture: The demand for labour, the supply of labour. The labour force, working-age population, active and inactive population, labour participation rate. Supply curve and demand curve, equilibrium.

Calculation/team problems: Examination of the fiscal and monetary policy.

5th week:

Lecture: The government and fiscal policy. Government purchases, taxes, disposable income, government budget deficit and surpluses, determination of equilibrium output, fiscal policy, the government spending multiplier, the tax multiplier. Average tax rate, tax wedge, and marginal tax rate.

Calculation/team problems: Fiscal policy and the equilibrium. Average tax rate, tax wedge, and marginal tax rate.

7th week:

Lecture: The meaning of money, the functions of money, measuring the supply of money. The creation of money, required reserve ratio. The money multiplier. Open market operations. Fisher effect (nominal and real interest rate). Banking system, Commercial banking.

Calculation/team problems: The money multiplier. Fisher effect (nominal and real interest rate).

Mid-Term Test I**10th week:**

Lecture: Aggregate demand curve and aggregate supply curve. The effects of a shift in aggregate demand, the Equilibrium. The IS-LM model. Fiscal and monetary policy.

Calculation/team problems: The demand for money. Supply and demand in the money market. The equilibrium interest rate.

12th week:

Lecture: Unemployment, the unemployment rate, the activity rate. Types of unemployment (voluntarily and involuntarily unemployment; structural, frictional and cyclical unemployment), Okun law. Social and economic effect.

13th week:

Lecture: Inflation; (Price level, inflation rate, definition and measuring of inflation, types and causes of inflation, demand-pull inflation and cost-push inflation, The Philips curve: unemployment rate and inflation rate).

Calculation/team problems: Supply curve and demand curve, equilibrium. Disequilibrium in the labour market.

Calculation/team problems: The labour force, working-age population, active and inactive population, labour participation rate.

14th week:

Lecture: Growth (sources of economic growth, human capital, education and skills), Economic growth around the World. Sustainable development.

Calculation/team problems: demand-pull inflation and cost-push inflation.

15th week: 2nd drawing week**Requirements****A, for a signature:**

Participation at practice classes is compulsory. Students must attend practice classes and may not miss more than three occasions during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Students can't take part in any practice class with another group. Attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certification needs to be presented. Missed practice classes must be made up for at a later date, being discussed with the tutor.

During the semester there are two tests: the mid-term test on the 7th week and the end-term test on the 15th week. Students must sit for the tests.

B, for a grade:

The minimum requirement of the mid-term, the end-term test and the teamwork is 50% separately. Based on the score of the tests separately, the grade for the tests and the examination is given according to the following table:

The grade is given according to the following table:

0-49 % = fail (1); 50-62 % = pass (2); 63-75 % = satisfactory (3); 76-89 % = good (4); 90-100 % = excellent (5)

If the score of any test is below 50%, the student once can take a retake test of the whole semester material.

Microeconomics and Economical Processes of Enterprises

Code: MK3MIKVM04XX17-EN

ECTS Credit Points: 4

Evaluation: mid-semester grade

Year, Semester: 3rd year, 1st semester

Its prerequisite(s): Economics for Engineers

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 1+2

Topics:

Basic concepts of Economics and Microeconomics. Consumers Preferences and the Concept of Utility. Consumer's demand, types of elasticity of demand. Examination of Firm Behaviour. Production and cost theory. Perfectly competitive markets. Imperfect competition and market structures. Strategic behaviour at the market.

Literature:

Compulsory:

- Besanko, David – Breutigam, Ronald R. (2014): Microeconomics. Fifth Edition (International Student version). John Wiley and Sons, Inc., New York. ISBN: 978-1-118-71638-0
- Besanko, David – Breutigam, Ronald R.: Microeconomics. Study Guide. Third Edition. John Wiley and Sons, Inc., New York, 2008.
- Judit T. Kiss (2015): Introduction to Microeconomics for Engineers and Technical Managers. Debrecen University Press. ISBN: 978-963-318-469-1.
- or
- N. Gregory Mankiw – Mark P. Taylor (2011): Microeconomics, 2nd edition. South-Western Cengage Learning.
- Gregory Mankiw (2006): Principles of Microeconomics - Study Guide. South-Western College Pub.
- Nellis, J. G. – Parker, D. (2006): Principles of Business Economics. Pearson Education, 2006. 2nd edition. ISBN: 0273693069, 9780273693062.

Recommended:

- Samuelson P.A., Nordhaus W.D.: Economics, 18th edition, Academic Internet Publishers Inc., 2006. ISBN: 0072872055
- Parkin, M., Powell, M. & Matthews, K. (2008) Economics. 7th ed. Harlow: Addison Wesley. ISBN-13: 9780132041225

Schedule

1st week Registration week

2nd week:

Lecture: Microeconomics and Macroeconomics, models in Economics. Resources. Key analytical tools. Efficiency. Market mechanism, Demand and supply analysis. Demand curves, Supply curves; shift in demand and supply.

Practice: Calculation/team problems: equilibrium price and quantity; market demand and individual demand; shifts versus movements along the demand curve (supply curve); market supply and individual supply; shifts versus movements along the supply curve.

4th week:

Lecture: Demand and supply together, market equilibrium. The elasticity of demand (price elasticity of demand, cross price elasticity of demand, income elasticity of demand). The elasticity of supply. Total revenue and the price elasticity of demand. Application of elasticity of demand. Energy and price elasticity. Types of goods (substitutes, complements, independents).

Practice: Calculation/team problems: Calculation of elasticity of demand, relationship between price elasticity of demand and total revenue.

6th week:

Lecture: Production. Inputs and production function. Total product function. Marginal product of labour and average product of labour.

Practice: Calculation/team problems: Average product of labour (capital), marginal product of labour (capital), relationship between marginal product and average product.

3rd week:

Lecture: Consumer theory, consumer preferences, Utility theory. Cardinal ranking. Total utility, marginal utility. Principle of diminishing marginal utility. Utility and demand. Individual and market demand functions. Consumer surplus. Condition of optimal choice.

Practice: Calculation/team problems: Relationship between utility and demand. Individual and market demand functions. Consumer surplus

5th week:

Lecture: Business organizational structures. Business objectives. Types of corporation, forms of business. Market environment (domestic, international environment, markets of products, services and labour). Models of the firm's pricing decisions, costs estimation and decision. Sources of Cost efficiency. Business performance, business strategy.

Practice: Calculation/team problems and case study examination: Firm's pricing decisions, costs estimation and decision. Sources of Cost efficiency.

7th week:

Lecture: Costs of production. (Total, fixed and variable costs, marginal and variable cost). The relationship between marginal and average cost. Total revenue, total profit curves. Calculating problems (types of cost, relationship between cost and profit, opportunity cost).

Practice: Calculation/team problems: Total, fixed and variable costs; marginal and average costs. The relationship between marginal cost and average cost.

8th week: 1st drawing week

9th week:

Lecture: Main characteristics of perfect competition, marginal cost, average costs of production, profit-maximizing output, shut down and breakeven point, the competitive firm's supply curve. Calculating problems (marginal average, total revenue, average and marginal profit, profit-maximizing output, marginal cost curve and supply curve).

Practice: Mid-Term Test I

11th week:

Lecture: Why Monopoly arise, Monopoly (the profit-maximization condition; average revenue, marginal revenue, total revenue curves).

Problems (calculation of the profit-maximization output and price. Relationship between marginal revenue and linear demand curve).

Practice: Calculation/team problems: Profit maximization condition for monopoly.

13th week:

Lecture: Main characteristics of oligopoly and monopolistic competition. Markets with a few sellers, product differentiation.

Practice: Calculation/team problems: Oligopoly market behaviour.

15th week: 2nd drawing week

10th week:

Lecture: Individual and market supply curve, main condition of the profit maximization and cost minimization, Cost-benefit analysis, economical examinations.

Practice: Calculation/team problems: Profit maximization condition for competitive market.

12th week:

Lecture: *Capturing surplus – Price discrimination* First-degree price discrimination, second-degree price discrimination and third-degree price discrimination. Consumer surplus, producer surplus, deadweight loss. The welfare cost of Monopoly.

Practice: Calculation/team problems: Monopoly versus perfect competition. Producer surplus and deadweight loss.

14th week:

Lecture: *The markets for the factors of production.* Taxes and efficiency. Earnings and discrimination. Game theory.

Practice: Calculation/team problems: Monopoly, Oligopoly and perfect competition. Taxes and efficiency.

Requirements

A, for a signature:

Participation at practice classes is compulsory. Students must attend practice classes and may not miss more than three occasions during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Students can't take part in any practice class with another group. Attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certification needs to be presented. Missed practice classes must be made up for at a later date, being discussed with the tutor.

During the semester there are two tests: the mid-term test on the 7th week and the end-term test on the 15th week. Students must sit for the tests.

B, for a grade (ESE):

The minimum requirement of the mid-term, the end-term test and the teamwork is 50% separately. Based on the score of the tests separately, the grade for the tests and the examination is given according to the following table:

The grade is given according to the following table:

0-49 % = fail (1); 50-62 % = pass (2); 63-75 % = satisfactory (3); 76-89 % = good (4); 90-100 % = excellent (5)

If the score of any test is below 50%, the student once can take a retake test of the whole semester material.

Quality and Technical Management

Code: MK3MINMM04XX17-EN

ECTS Credit Points: 4

Evaluation: exam

Year, Semester: 3rd year, 1st semester

Its prerequisite(s): -

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 1+2

Topics:

The aim of the course is to provide students with a comprehensive picture of the organization's operations and the associated management and organizational roles and tasks. The aim of the course is to give students the opportunity to share with the company's quality management techniques, the application of which in the European Union, as well as in Hungary, is an essential element of market competitiveness.

Literature:

Compulsory:

- Nick Milton, Patrick Lambe: The Knowledge Manager's Handbook, Kogen Page, London, 2016
- Ranulfo P. Payos, Ernesto G. Espinosa, Orlando S. Zorilla: Organization and Management, K12, 2016
- Ramani S: Improving Business Performance: A Project Portfolio Management Approach, CRC Press, 2016

Schedule

1st week Registration week	
2nd week: Lecture: Basics of Quality management Practice: Analyze examples	3rd week: Lecture: The role of quality management in the industry Practice: PDCA project
4th week: Lecture: Process Management Practice: Create a flowchart	5th week: Lecture: Quality Planning Practice: Developing a Quality Plan
6th week: Lecture: Quality Management Methods I Practice: Ishikawa, Pareto Analysis, 5W	7th week: Lecture: Quality Management Methods II Practice: QFD, Kano model, 5s, 8D report
8th week: 1st drawing week	
9th week: Lecture: Engineering management Practice: Case study	10th week: Lecture: Company and its surroundings Practice: SWOT, Pestle analyzes
11th week: Lecture: Management functions, manager roles, tasks Practice: Situational tasks	12th week: Lecture: Organization Theory Practice: Process Development, Project Management
13th week: Lecture: Human Resource Management Practice: Recruitment, selection, work planning	14th week: Lecture: Innovation Management Practice: Business Plan
15th week: 2nd drawing week	

Requirements

A, for a signature:

Participation at lectures is compulsory. Students must attend lectures and may not miss more than three of them during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Attendance at lectures will be recorded by the lecturer. Being late is equivalent with an absence. In case of further absences, a medical certification needs to be presented. Missed lectures must be made up for at a later date, being discussed with the tutor.

Students have to write two midterm tests during the semester. The first (40 points max) in the 8th, the second (40 points max) in the 14th week. At the end of the semester everybody will get a seminar grade on the basis of the table below:

0-39 = Fail (1); 40-50 = Close fail (2); 51-60 = Improvement needed (3); 61-70 = Very good (4); 71-80 = Excellent (5)

If somebody fails then he has to write both tests in the 1st week of the exam period again. If the result is 40 points (50%) or better, then he can take an exam. If somebody has to repeat his midterm tests then his seminar grade can't be better than (2).

There will be homework from week to week. Only students who have handed in all their homework at the time of the midterm test will be allowed to write it. The problems in the midterm tests will be selected from the homework assignments.

B, for a grade:

Everybody will get an exam grade for their exam. The final grade will be the average of the seminar and exam grade. If it is for example (3.5) then the lecturer decides if it is (3) or (4).

Environmental Protection and Dangerous Goods

Code: MK3EPDGK04RX17-EN

ECTS Credit Points: 4

Evaluation: mid-semester grade

Year, Semester: 3rd year, 1st semester

Its prerequisite(s): -

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 0+2

Topics:

According to the environment protection part of subject the most important topics of environmental protection are introduced to the students. It includes the general knowledges and global issues of environmental protection and managements: air quality, water protection, soil protection, noise protection, and waste management side topics.

The environmental issues of air transport. Environmental policies of International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA). IATA goals to assist airlines in improving their environmental performance: alternative fuels, carbon offset program, environmental assessment, fuel and emission data, cargo sustainability.

Dangerous goods: It involves the basics of safety and transportation of dangerous goods (basics of dangerous goods, hazard and handling labels, etc.) ICAO Dangerous Panel and Dangerous Goods Regulations (DGR) of IATA: global reference for shipping dangerous goods by air, shipment features and documentation.

Literature:

Recommended:

- Gilbert M. Masters, Wendell P. Ela: Introduction to Environmental Engineering and Science, Pearson New International Edition, 3/E, Pearson, 2013, ISBN:9781292025759
- Jerry A. Nathanson, Richard A. Schneider: Basic Environmental Technology, Pearson, 2015, ISBN:978-0-13-284014-9
- ICAO, IATA standards, manuals, and guidelines

Schedule

1st week Registration week	
<p>2nd week: Basics of Environmental Protection and Environmental Management</p> <p>Practice: Introduction to environmental protection; Global issues on environmental protection, the environmental issues of air transport</p> <p>4th week: Water and Soil Protection</p> <p>Practice:Water protection and quality, pollutants Protection of soil quality</p> <p>6th week: The environmental issues of air transport</p> <p>Practice: Environmental policies of International Civil Aviation Organization (ICAO).</p>	<p>3rd week: Air Quality and Air Quality Control</p> <p>Practice: Basics of air pollution control, processes in the atmosphere, greenhouse gases, ozone layer, smog, acid rain</p> <p>5th week: Environmental Noise, Waste Management</p> <p>Practice: The basics of environmental noise, measuring devices and techniques Waste management, possibilities, disposal, techniques and hazardous waste</p> <p>7th week: The environmental issues of air transport</p> <p>Practice: Environmental policies of International Air Transport Association (IATA)</p>
8th week: 1st drawing week	
<p>9th week: Air transport safety and security</p> <p>Practice: Main goals of air transport safety and security</p> <p>11th week: Transportation of dangerous goods</p>	<p>10th week: Transportation of dangerous goods</p> <p>Practice: Transportation of dangerous goods (basics of dangerous goods, hazard and handling labels, etc.)</p> <p>12th week: Transportation of dangerous goods</p> <p>Practice: ICAO Dangerous Panel</p>

Practice: DG shipment features and documentation

13th week: Transportation of dangerous goods

Practice: IATA Dangerous Goods Regulations (DGR)

14th week: Mid-semester TEST

15th week: 2nd drawing week

Requirements

A, for a signature:

Attendance to the practices (absence up to the permissible level)

B, for grade:

The final grade will be the average of the tests. Each test has to be at least 50%.

Aviation Terminology I

Code: MK3AVT1R01HX17-EN

ECTS Credit Points: 1

Evaluation: mid-semester grade

Year, Semester: 1st year, 2nd semester

Its prerequisite(s): -

Further courses are built on it: Yes

Number of teaching hours/week (lecture + practice): 0+1

Topics:

The course aims to provide future pilots with the English language proficiency needed for clear, accurate and problem-free communication without misunderstandings both in voice-only and face-to-face situations even in the case of unexpected events. To achieve this the improvement of General English and the sound acquisition of ICAO phraseology are both required.

Course content:

1. Introduction to air communication (clear communication, asking for repetition, questions-short answers, time expressions, ICAO)
2. Pre-flight (checks, delays, local conditions)
3. Ground movements (asking for more time, giving a reason,
4. Departure, climbing and cruising
5. Enroute events (explaining changes, unusual events, stating a problem)

6. Contact and approach (descent, saying what you are going to do)
7. Landing (landing hazards)
8. On the ground (getting to the gate)

Literature:

Compulsory:

- Sue Ellis-Terence Gerighty: English for Aviation for Pilots and Air Traffic Controllers. Express Series. Oxford Business English. OUP. 2008. ISBN szám: 978 0 19 457943 8
- Philip Shawcross: Flightpath, Aviation English for Pilots and ATCos. Cambridge Professional English. CUP. 2011. ISBN szám: 978-0521178716

Recommended:

- Henry Emery - Andy Roberts: Aviation English Macmillan 2008. ISBN szám: 978 0 23 002757

Schedule

1st week Registration week	
2nd week: Practice: Annex 1 Personnel Licensing	3rd week: Practice: Annex 1 Personnel Licensing
4th week: Practice: Annex 2 Rules of the Air	5th week: Practice: Annex 2 Rules of the Air
6th week: Practice: Annex 6 Operation of Aircraft	7th week: Practice: Annex 6 Operation of Aircraft
8th week: 1st drawing week	
9th week: Practice: Annex 6 Operation of Aircraft	10th week: Practice: Annex 7 Aircraft Nationality and Registration Marks
11th week: Practice: Annex 7 Aircraft Nationality and Registration Marks	12th week: Practice: Annex 8 Airworthiness of Aircraft
13th week: Practice: Annex 8 Airworthiness of Aircraft	14th week: Practice: Annex 8 Airworthiness of Aircraft
15th week: 2nd drawing week	

Requirements

A, for a signature:

Participation at **practice classes** is compulsory. A student must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. A student can't make up any practice with another group. Attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certificate needs to be presented. Missed practice classes should be made up for at a later date, to be discussed with the tutor.

B, for grade:

The course ends in mid-semester grade based on the assessment of the instructor.

Aviation Terminology II

Code: MK3AVT2R01HX17-EN

ECTS Credit Points: 1

Evaluation: mid-semester grade

Year, Semester: 2nd year, 1st semester

Its prerequisite(s): Aviation Terminology I

Further courses are built on it: Yes

Number of teaching hours/week (lecture + practice): 0+1

Topics:

The course aims to provide future pilots with the English language proficiency needed for clear, accurate and problem-free communication without misunderstandings both in voice-only and face-to-face situations even in the case of unexpected events. To achieve this the improvement of General English and the sound acquisition of ICAO phraseology are both required.

Course content:

9. Introduction to air communication (clear communication, asking for repetition, questions-short answers, time expressions, ICAO)
10. Pre-flight (checks, delays, local conditions)
11. Ground movements (asking for more time, giving a reason,
12. Departure, climbing and cruising
13. Enroute events (explaining changes, unusual events, stating a problem)
14. Contact and approach (descent, saying what you are going to do)
15. Landing (landing hazards)
16. On the ground (getting to the gate)

Literature:

Compulsory:

- Sue Ellis-Terence Gerighty: English for Aviation for Pilots and Air Traffic Controllers. Express Series. Oxford Business English. OUP. 2008. ISBN szám: 978 0 19 457943 8
- Philip Shawcross: Flightpath, Aviation English for Pilots and ATCos. Cambridge Professional English. CUP. 2011. ISBN szám: 978-0521178716

Recommended:

- Henry Emery - Andy Roberts: Aviation English Macmillan 2008. ISBN szám: 978 0 23 002757

Schedule

1st week Registration week	
2nd week: Practice: Annex 10 Aeronautical Telecommunications	3rd week: Practice: Annex 10 Aeronautical Telecommunications
4th week: Practice: Annex 11 Air Traffic Services	5th week: Practice: Annex 11 Air Traffic Services
6th week: Practice: Annex 11 Air Traffic Services	7th week: Practice: Annex 3 Meteorological Service for International Air Navigation
8th week: 1st drawing week	
9th week: Practice: Annex 3 Meteorological Service for International Air Navigation	10th week: Practice: Annex 3 Meteorological Service for International Air Navigation
11th week: Practice: Annex 4 Aeronautical Charts	12th week: Practice: Annex 4 Aeronautical Charts
13th week: Practice: Annex 4 Aeronautical Charts	14th week: Practice: Annex 5 Units of Measurement to be Used in Air and Ground Operations
15th week: 2nd drawing week	

Requirements

A, for a signature:

Participation at **practice classes** is compulsory. A student must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. A student can't make up any practice with another group. Attendance at practice classes will be recorded

by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certificate needs to be presented. Missed practice classes should be made up for at a later date, to be discussed with the tutor.

B, for grade:

The course ends in mid-semester grade based on the assessment of the instructor.

Aviation Terminology III

Code: MK3AVT3R01HX17-EN

ECTS Credit Points: 1

Evaluation: mid-semester grade

Year, Semester: 2nd year, 2nd semester

Its prerequisite(s): Aviation Terminology II

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 0+1

Topics:

The course aims to provide future pilots with the English language proficiency needed for clear, accurate and problem-free communication without misunderstandings both in voice-only and face-to-face situations even in the case of unexpected events. To achieve this the improvement of General English and the sound acquisition of ICAO phraseology are both required.

Course content:

17. Introduction to air communication (clear communication, asking for repetition, questions-short answers, time expressions, ICAO)
18. Pre-flight (checks, delays, local conditions)
19. Ground movements (asking for more time, giving a reason,
20. Departure, climbing and cruising
21. Enroute events (explaining changes, unusual events, stating a problem)
22. Contact and approach (descent, saying what you are going to do)
23. Landing (landing hazards)
24. On the ground (getting to the gate)

Literature:

Compulsory:

- Sue Ellis-Terence Gerighty: English for Aviation for Pilots and Air Traffic Controllers. Express Series. Oxford Business English. OUP. 2008. ISBN szám: 978 0 19 457943 8
- Philip Shawcross: Flightpath, Aviation English for Pilots and ATCos. Cambridge Professional English. CUP. 2011. ISBN szám: 978-0521178716

Recommended:

- Henry Emery - Andy Roberts: Aviation English Macmillan 2008. ISBN szám: 978 0 23 002757

Schedule

1st week Registration week	
2nd week: Practice: Annex 14 Aerodromes	3rd week: Practice: Annex 14 Aerodromes
4th week: Practice: Annex 14 Aerodromes	5th week: Practice: Annex 14 Aerodromes
6th week: Practice: Annex 15 Aeronautical Information Services	7th week: Practice: Annex 15 Aeronautical Information Services
8th week: 1st drawing week	
9th week: Practice: Annex 9 Facilitation	10th week: Practice: Annex 12 Search and Rescue
11th week: Practice: Annex 13 Aircraft Accident and Incident Investigation	12th week: Practice: Annex 13 Aircraft Accident and Incident Investigation
13th week: Practice: Annex 13 Aircraft Accident and Incident Investigation	14th week: Practice: Annex 16 Environmental Protection
15th week: 2nd drawing week	

Requirements

A, for a signature:

Participation at **practice classes** is compulsory. A student must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. A student can't make up any practice with another group. Attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certificate needs to be presented. Missed practice classes should be made up for at a later date, to be discussed with the tutor.

B, for grade:

The course ends in mid-semester grade based on the assessment of the instructor.

Aviation Terminology IV

Code: MK3AVT4R01HX17-EN

ECTS Credit Points: 1

Evaluation: mid-semester grade

Year, Semester: 3rd year, 1st semester

Its prerequisite(s): Aviation Terminology III

Further courses are built on it: Yes/No

Number of teaching hours/week (lecture + practice): 0+1

Topics:

The course aims to provide future pilots with the English language proficiency needed for clear, accurate and problem-free communication without misunderstandings both in voice-only and face-to-face situations even in the case of unexpected events. To achieve this the improvement of General English and the sound acquisition of ICAO phraseology are both required.

Course content:

25. Introduction to air communication (clear communication, asking for repetition, questions-short answers, time expressions, ICAO)
26. Pre-flight (checks, delays, local conditions)
27. Ground movements (asking for more time, giving a reason,
28. Departure, climbing and cruising
29. Enroute events (explaining changes, unusual events, stating a problem)
30. Contact and approach (descent, saying what you are going to do)
31. Landing (landing hazards)
32. On the ground (getting to the gate)

Literature:

Compulsory:

- Sue Ellis-Terence Gerighty: English for Aviation for Pilots and Air Traffic Controllers. Express Series. Oxford Business English. OUP. 2008. ISBN szám: 978 0 19 457943 8
- Philip Shawcross: Flightpath, Aviation English for Pilots and ATCos. Cambridge Professional English. CUP. 2011. ISBN szám: 978-0521178716

Recommended:

- Henry Emery - Andy Roberts: Aviation English Macmillan 2008. ISBN szám: 978 0 23 002757

Schedule

1st week Registration week	
2nd week: Practice: Annex 17 Security: Safeguarding International Civil Aviation Against Acts of Unlawful Interference	3rd week: Practice: Annex 17 Security: Safeguarding International Civil Aviation Against Acts of Unlawful Interference
4th week: Practice: Annex 17 Security: Safeguarding International Civil Aviation Against Acts of Unlawful Interference	5th week: Practice: Annex 17 Security: Safeguarding International Civil Aviation Against Acts of Unlawful Interference
6th week: Practice: Annex 18 The Safe Transport of Dangerous Goods by Air	7th week: Practice: Annex 18 The Safe Transport of Dangerous Goods by Air
8th week: 1st drawing week	
9th week: Practice: Annex 18 The Safe Transport of Dangerous Goods by Air	10th week: Practice: Annex 18 The Safe Transport of Dangerous Goods by Air
11th week: Practice: Annex 19 Safety management	12th week: Practice: Annex 19 Safety management
13th week: Practice: Annex 19 Safety management	14th week: Practice: Annex 19 Safety management
15th week: 2nd drawing week	

Requirements

A, for a signature:

Participation at **practice classes** is compulsory. A student must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. A student can't make up any practice with another group. Attendance at practice classes will be recorded by the practice leader. Being late is equivalent with an absence. In case of further absences, a medical certificate needs to be presented. Missed practice classes should be made up for at a later date, to be discussed with the tutor.

B, for grade:

The course ends in mid-semester grade based on the assessment of the instructor.