Universidad de Navarra

Asignatura: **Algebra B (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Presentation

http://www.unav.es/asignatura/algebraBeconom/

Algebra B (F. ECONÓMICAS)

Algebra enhances the capacity for analysis and synthesis. Helps speed the reasoning and facilitate abstract thinking.

As for inclusion in Business Administration/Economics studies is essential for quantitative modeling of economic reality, and it can solve complex problems with many variables (impossible to synthesize intuitively).

To achieve these objectives usual topics are thoroughly discussed in mathematics, such as linear programming, matrices and determinants, systems of linear equations, matrix and systems of equations for economic applications and graphs and networks.

Department: Economics.

Faculty: Economics and Business.

Degrees: IDE, IDM, GEL, GML, Leadership and Governance

Year: 1st

Organization: Second semester, from January to May

ECTS credits: 6 (150 hours)

Universidad de Navarra

Type of course: Basic

Language: English and spanish

Professors IDE/IDM/GEL/GML/GOV: Victoria Rodríguez Chacón, vrodriguez@unav.es and Ignacio Rodriguez Carreño, irodriguezc@unav.es

Competences

Competences of the Subject

- Know, understand and use mathematical reasoning.
- Structuring the mind, facilitate abstract thinking and the ability to inter.
- Attitude of rigorous mathematical approaches to hypothesis and proofs, typical of logical reasoning.
- Assimilate fluently the main concepts of algebra: matrices, determinants, systems of linear equations, graphs and networks
- Acquire a solid foundation of mathematical concepts of algebra to help you interpret and understand their applications in economics and business administration.

Competences of the degree

- Development of logical reasoning.
- Ability to analyze and synthesize the proposed problems.
- Ability to learn independently.
- Sense of responsibility and effort.

Program

Chapter 1: Linear Programming

Problema de programación lineal. Región factible. Función objetivo. Planteamiento de las restricciones. El modelo matemático. Solución gráfica. Solución con Excel

Chapter 2: Introduction to Algebra. Basic concepts

Principles of logic. Proposition. Theorem. Induction. Reductio ad absurdum. Set Definition. Numerical sets. Cartesian product. Application

Chapter 3: Matrices, Determinants and Linear systems of equations

Matrix definition. Operation with matrices: add and product. Different classes: row matrix, column matrix, square matrix, diagonal matrix, scalar matrix, identity matrix, symmetric matrix, skew symmetric matrix, transpose matrix. Determinant definition. Sarrus law. Properties. How to calculate a determinant. Rank. Inverse matrix definition. Properties. Equivalent matrix. Similar matrix. Definition of a linear system of equations. Solution of a complete system. Solution of a homogeneus system. Resolution methods. Systems discussion, Rouché-Frobenius theorem.

Chapter 4: Matrices' and linear systems of equations' applications

Equilibrium in a two goods market. Equilibrium of the national income. Leontief's input-output model. Electoral forecast. Conditionds of equilibrium in population migration

Chapter 5: Graphs and networks

Introduction. Aims. Definition and properties: graphs and networks, network size, degree of a node and network density. Accessibility, network distances, cycle paths and walkways. Centrality and power. Degree centrality. Closeness centrality. Degree centrality. Betweeness centrality. Eigen vector and eigenvalues. Eigenvector centrality. Dynamic networks. Economic networks.

Educational activities

In this section the overall methodology of the subject is detailed and hours of student workload are estimated.

There will be classroom activities and non-face activities:

1. Classroom activities (54 total hours). In this section the lectures to be given in large groups, the practical classes of problems, the hours devoted to the presentation of work, hours of examination, class test hours and hours of practice encompass computer.

a) Lectures. In 26 lessons of 1 hour, the most important points of each topic of the course will be presented by the teacher. Theory of the subject with examples and economic applications will be discussed.

b) Practical classes. In 18 1 hour classes key and difficult problems are solved.

c) Presentation of work. Throughout the course there will be one or two jobs in the study group consisting of a case study related to the theory of the subject. These works will be presented to the teacher for evaluation.

d) Exams. In total throughout the course, there will be 6 hours of written examination.

e) Computer practices. There will be 2 computer lab sessions of 2 hours each.

2. Non face activities (96 hours). The main activity will be personal study of the subject. The number of estimated hours are 96.

Assesment

Ordinary evaluation:

1. Continuous evaluation: 20%.

    a) Attendance and participation in class (5%).

b) Computer practices and exercises (5%)

c) Oral work presentations (10%)

2. LP exam: 15%.

3. Midterm exam: 20%. 3 hours. 8th week

4. Final exam: 50%. 3 hours. The student will have to get at least a 4 in this exam.

Extra-ordinary evaluation:

In case the student do not pass the subject in the ordinary evaluation, he/she will have to go to the extraordinary evaluation. The final exam will be 70 %, and the rest of the grade will be given by its work during the course (attendance and participation 5%, computer practices and exercises 5% and oral work presentations 5%, LP exam 7,5% and midterm exam 7,5%).

Office hours

Professor Victoria Rodríguez Chacón, vrodriguez@unav.es: Monday 11:00-13:00 and 17:00-19:00. Always send an email at least one day in advance.

Professor Ignacio Rodríguez Carreño, irodriguezc@unav.es: Monday from 10:00 to 11:30 and from 17:00 to 18:30 h. Office 2080.

Professor María Castillo Latorre, mclatorre@unav.es: Tuesday from 16:30 to 18:00 h. and Thursday from 10:00 to 11:30 h. Office 2280.

Bibliography and Resources

- *Matemáticas para la Economía. Álgebra Lineal y Cálculo Diferencial*. Gloria Jarne, Isabel Pérez-Grasa, Esperanza Minguillón. Ed. McGraw Hill.

- *Matemáticas para la Economía. Libro de Ejercicios. Álgebra Lineal y Cálculo Diferencial*. Gloria Jarne, Isabel Pérez-Grasa, Esperanza Minguillón. Ed. McGraw Hill.
- *Matemáticas en los estudios de Economía y Gestión de Empresas: ¿por qué?, ¿para qué?, ¿cuáles?, ¿son posibles?* J. Antomil, M. Arenas, A. Bilbao, P. Gladish, M Rodríguez Uría. Universidad de Oviedo.
- *Social and Economic Networks*. Matthew O. Jackson. Princeton University Press.

Localiza estos libros en la Biblioteca

Universidad de Navarra

Asignatura: **Antropología C (F. Económicas)**
Guía Docente
Curso académico: 2014-15

Presentación y datos de la asignatura

Antropología C (F. Económicas)

1. Presentación

Esta asignatura, Fundamentos de Antropología, es una antropología de carácter humanístico, con base en la tradición filosófica y literaria, que estudia en tres partes

1) Las áreas fundamentales de la conciencia humana

2) La forma en que esas areas se desarrollan creando la personalidad

3) Las cuestiones existenciales ante las que se enfrenta toda vida humana: sentido de la vida, felicidad, dolor, muerte, más allá, dignidad de la persona humana.

2. Datos de la asignatura

Curso: 1º de Económicas (IDM)

Duración: Dos semestres

Número de créditos ECTS: 3 + 3

Numero de horas de trabajo del alumno: 150 a 180

Profesor: Juan Luis Lorda Iñarra

Ayudante (Primer semestre): Gonzalo Alonso Bastarreche

Horario: jueves, 16,00 - 17,45, Aula 02 del Edificio Amigos

Idioma: Castellano (hay documentación en inglés).

Tipo de asignatura: Básica

Plan de estudios: Económicas

Competencias transversales del título

Competencias que se desean fomentar en este plan de estudios

(se llaman transversales porque están presentes en todas las materias)

1. Desarrollo del razonamiento lógico

2. Capacidad de análisis y síntesis de las problemáticas abordadas.

3. Motivación y superación.

4. Sentido de la responsabilidad y del esfuerzo.

5. Capacidad de comunicación oral.

6. Capacidad de trabajo en equipo.

7. Capacidad crítica y autocrítica.

8. Fomentar las capacidades de innovación y liderazgo.

9. Planificación de tareas y gestión del tiempo.

10. Puntualidad y ética en el trabajo.

11. Capacidad de aprendizaje autónomo.

12. Visión interdisciplinar de las problemáticas económicas.

13. Iniciación en técnicas de investigación básica, así como en la expresión escrita de sus resultados en trabajos profundos aunque breves.

14. El manejo suficiente en inglés para poder utilizar bibliografía científica en ese idioma y ser capaz de llevar a cabo trabajos escritos y presentaciones orales en el mismo.

15. Alimentar la sensibilidad hacia los problemas éticos, sociales y medioambientales de los asuntos económicos.

Distribución del tiempo

La distribución del tiempo partiendo del número de horas de trabajo del alumno (workload) que ha sido calculado para la asignatura. De 150 a 180 horas de trabajo del alumno.

40 horas de clases presenciales

20 horas de ejercicios en clase

30 horas de lectura de literatura y ensayo y respuesta a loa cuestionarios.

1,30 horas para la realización del primer parcial

1,30 hora para la realización del segundo parcial

2 horas para la realización del examen final

60 - 80 horas de estudio de la asignatura

20 horas para realización de trabajos

Universidad de Navarra

PROGRAMA

1. Introducción: una antropología humanista

I. LA ESTRUCTURA DE LA PERSONA HUMANA

2. Introducción a la psicología filosófica.

3. El puesto del hombre en el cosmos.

4. La autoconciencia humana y la sensibilidad

5. la inteligencia humana

6. La afectividad humana: el corazón.

7. La conciencia y el cuerpo: temperamento.

8. La acción humana: voluntad y libertad.

9. La formación de hábitos

10. El trabajo y el ocio.

11. La madurez humana.

B. LA FORMACIÓN DE LA PERSONA HUMANA

12. Introduccion al humanismo

13. La verdad.

14. Los saberes y su método.

15. El lenguaje

16. El sentido estético y el buen gusto.

17. La prudencia: arte de gobernarse y gobernar

18. El sentido moral y la virtud de la justicia.

19. El dominio de sí: fortaleza y templanza.

20. Sociabilidad y convivencia

21. El amor y la amistad.

22. La amistad conyugal y la familia

23. Vida social y participación.

C. LAS PREGUNTAS EXISTENCIALES

24. Introduccion a las preguntas existenciales

25. Existencia y sentido de la libertad

26. ¿Felicidad o realización?

27. El sentido del sufrimiento y de la muerte

28. El escándalo del mal

29. Las enfermedades y conflictos de la libertad

30. Los anhelos humanos y el más allá

31. Religión y religiones

32. La pregunta filosófica por Dios

33. El origen del hombre

34. La identidad de la persona y el alma

BIBLIOGRAFIA Y RECURSOS

Cada año se publican unos APUNTES, que tienen una bibliografía más detallada por temas, que sirve para ampliación y trabajos. Aquí se seleccionan algunos títulos útiles. Los apuntes se editan al principio de curso, de acuerdo con la clase, y suelen estar disponibles en el servicio de fotocopias.

En las páginas de DOCUMENTOS se pueden encontrar otros materiales útiles.

A) Bibliografía general de consulta y ampliación

R. Yepes: *Fundamentos de Antropología*, Eunsa.

J.M. Burgos: *Antropología: una guía para la existencia*,Palabra

J. Aranguren: *Antropología filosófica*, McGraw Hill.

J.A. García Cuadrado: *Antropología filosófica*,Eunsa.

C. Valverde: *Antropología filosófica*, Edicep.

J.L. Lorda: *Para una idea cristiana del hombre*,Rialp.

J.M. Barrios: *Elementos de antropología pedagógica*,Rialp.

B) Algunos ensayos interesantes para la primera parte

Aristóteles: *Ética a Nicómaco*.

J. Marías: *Mapa del mundo personal*, Alianza.

J. Pieper:*Virtudes fundamentales*, Rialp.

C. S. Lewis: *La abolición del hombre*, Encuentro.

C. S. Lewis: *Los cuatro amores*, Rialp.

J. R., Ayllón: *En torno al hombre*, Rialp.

J.L. Lorda: *Moral, el arte de vivir*, Palabra.

C) Algunos ensayos interesantes para la segunda parte

J. Marías: *La felicidad humana*, Alianza.

E. Rojas: *Una teoría de la felicidad*, Dossat.

R. Guardini: *Mundo y persona*, Encuentro.

Pascal: *Pensamientos*.

S. Kierkegaard: *La enfermedad mortal*.

C.S. Lewis: *Una pena en observación*, Anagrama.

V. Frankl: *El hombre en busda de sentido*,Herder.

J. A. Vallejo-Nájera: *La puerta de la esperanza*, Planeta.

D) Algunas ilustraciones literarias para la segunda parte

Platón: *Apología de Sócrates*.

San Agustín: *Las confesiones*.

W. Shakespeare: *Hamlet*.

L. Tolstoy: *La muerte de Iván Ilich*.

F. Dostoievsky: *Crimen y castigo*.

R.L. Stevenson: *El doctor Jeckill y Mr. Hide*.

J. Conrad: *El corazón de las tinieblas*.

O. Wilde: *El retrato de Dorian Gray*.

G. García Márquez: *El coronel no tiene quien le escriba*.

J. Orwell: *Rebelión en la granja*.

A. de Saint Éxupery: *El principito*.

A. Camus: *El extranjero*.

W. Golding: *El Señor de las moscas*.

Universidad de Navarra

ACTIVIDADES FORMATIVAS - METODO

FUNDAMENTOS DE ANTROPOLOGÍA 2014-2015

Existen unos apuntes para la asignatura, que se renuevan cada año.

DOS GRUPOS Y DOS METODOS

Al principio del curso académico la clase se dividirá en dos grupos:
- Seminario de Antropología para 10 alumnos.
- Clase ordinaria

METODO PARA LAS CLASES

Los alumnos deben leer el tema antes de la clase. La clase comienza preguntando y abriendo un debate, para profundizar. Luego se profundiza en los puntos principales del tema, con apoyo en presentaciones en Power Point.

METODO PARA EL SEMINARIO

En el seminario se trataran con más profundidad los temas principales de la asignatura, no todos, porque cada tema requiere más tiempo. Cada seminario tendrá un ponente. Cada alumno tendrá una pequeña tarea para cada sesión sobre los apuntes y la bibliografía básica. El seminario durará todo el primer semestre y se decidirá si sigue en el segundo.

TRABAJOS

Cada alumno presentará dos trabajos, que se escogen de las listas que se presentarán, de forma que no haya repeticiones. Los alumnos del seminario quedan exentos.

A. Trabajo sobre un capítulo de los apuntes (o una parte de un capítulo). En el primer trimestre, se escoge el punto y se habla con el profesor para estudiar la bibliografía de ampliación. Con esa bibliografía y orientación,

1. Se presenta un trabajo breve (3 páginas), que es una síntesis de la bibliografía, con comentario personal:

2. Se añaden sugerencias para mejorar el tema en los apuntes: ideas o enfoques (1 página). Especialmente, conviene señalar lo que no se entiende y lo que se podría suprimir por escaso interés. Se valorará aportar ilustraciones tomadas de la literatura o del cine sobre el tema, justificando por qué.

3. También se pueden sugerir mejoras y correcciones sobre el Power Point correspondiente.

4. Cuando toque tratar ese tema en clase, presentarán algún aspecto de lo que han estudiado, de acuerdo con el profesor.

B. Cuestionario sobre una película o sobre una novela breve. Para el segundo trimestre, sobre la lista que se proporcionará.

EVALUACIÓN

Habrá dos exámenes trimestrales y uno final. Los exámenes parciales son liberatorios, se libera con 7 y la nota se guarda hasta junio.

Hay una lista fija de preguntas (pequeños temas) para los exámenes. Cada examen parcial constará de tres preguntas escogidas por sorteo de esta lista. También el examen final de mayo y el de junio se realizan sobre esta lista. La lista, que se renueva cada curso, se puede ver entre los Documentos de la asignatura.

La asistencia y participación en clase supone un 20% de la nota final, para los del grupo de la clase y un 40% para los del seminario (porque no hacen trabajo). Cada falta injustificada en el seminario reduce un punto; y se abandona el seminario si hay 3. En la asistencia y participación, se cuentan también respuestas de palabra o por escrito pedidas en clase. Cuando se avisa, las preguntas bien contestadas en clase, suben directamente alguna décima en la nota final.

Las aportaciones extras que mejoren los apuntes o las presentaciones Power Point suben un punto de la nota de participación.

El trabajo sobre un tema de los apuntes con la exposición suponen un 20 % de la nota final. Habrá cuatro notas: trabajo excepcional (10); Buen trabajo (8); trabajo aceptable (6); mal trabajo (2). La presentación injustificada fuera de plazo bajará 2 puntos.

ATENCIÓN DE ALUMNOS

El profesor permanecerá en el descanso después de las clases para cualquier duda; y también para acordar una entrevista.

Estará presente en su despacho de la Facultad de Teología, los martes de 12 a 2

Para cualquier asunto, puede pedir tambien una entrevista por correo, jllorda@unav.es

En principio, es preferible que no envíen por correo los trabajos, sino que los presenten en clase.

Universidad de Navarra

Asignatura: **Calculus I A (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Introduction

http://www.unav.es/asignatura/calculus1Aeconom/

Calculus I A (F. ECONÓMICAS)

Course description: The aim of this course is to provide the basic tools of Differential and Integral Calculus which are necessary to succeed in the following courses that are taking part in the degrees of Economics, Management and Business Administration.

Department: Economics

School: Economics and Business

Degrees: IDM, IDE, double degrees GML and GEL

Year: 1st

Semester: 1st

ECTS credits: 6 (approximately 150 working hours)

Language: English**Type:** compulsory

Instructors (IDM):

- Montserrat Ana Miranda Galcerán (montse@unav.es), office 2300 (2nd floor, Row)
- María Castillo Latorre (mclatorre@unav.es), office 2280 (2nd floor, Row) - Precalculus and Support classes (held in Spanish)

Course schedule (also updated on the schedule file posted on "AREA INTERNA") and rooms (IDM):

- Tuesdays from 4 p.m. to 6 p.m. at room 02.
- Wednesdays from 6 p.m. to 8 p.m. at room 02.
- Midterm exam: 13/10/14, 9:00-11:00 a.m. at room 12.
- December exam: 05/12/14, 9:00 a.m. at room 15.
- June exam: 13/06/15, 9:00 a.m. at room 03.

Possible changes will be announced in class and posted on this website.

Updated: the 17th of October, 2014

Competences

Competences of the course

1. Knowledge

Students following this course will attain the following expertise:

- To be able to analyze real functions in one variable graphically, numerically and analytically. And to study the local and global behaviour of these functions applying limits and derivatives.
- To be able to calculate the minima and maxima of functions in one variable in order to solve optimization problems.
- To be able to implement the most common methods of function integration.
- To be able to deal with notions of sequences and series.

2. Skills and attitudes

Students must be able to:

- Examine and solve problems by using the most suitable mathematical tool from the available sources.
- Develop the critical capacity over the obtained results so as to discern which of them are useful in an economic and business framework, and as the basis of a decision-making process.
- Use the modern mathematical language considering that interdisciplinary team work involves the interaction between different types of professionals such as economists, mathematicians, software engineers...
- Learn how to manage work in teams.

3. Learning outcomes

At the end of this semester, students should have gained the proper knowledge, skills and attitudes that are expected from this course. The achievement of these targets will be assessed with different exams and tests.

Competences of the degree

The general or transverse competences that are developed throughout this course are the following:

Transverse competences:

1. Development of logical thinking skills.

2. Capacity for analysis and synthesis when addressing problems.

3. Sense of responsibility and effort.

4. Ability to work in a team.

5. Planning tasks and time management.

6. Capacity to learn on ones own.

At the same time, the course of Calculus I belongs to Module IV: Quantitative Methods for Business for the Degree in Business Administration. The course of Calculus I as a part of this module achieves the following competence:

Specific competences for the Degree in Business Administration:

1. Implementing mathematical reasoning and quantitative tools to problem solving associated to the decision-making process in the business administration.

This competence *is divided into two* of the specific competences of Module IV:

- To know, comprehend and use mathematical reasoning.
- To know how to implement quantitative tools to the problem solving process involved in the business field.

Program

1-. Introduction. [Chap. 3]. Summation notation. Rules for sums. Double sums. Economic examples and applications. [1 week].

2-. Functions of one variable. [Chap. 4]. Basic definition. Graphs of functions. Linear functions. Quadratic functions. Polynomials. Power functions. Exponential functions. Logarithmic functions. Economic examples and applications. [1 week].

3-. Properties of functions. [Chap. 5]. Shifting of functions. New functions from old. Inverse functions. Graphs of equations. General functions. Economic examples and applications. [1 week].

4-. Differentiation. [Chap. 6]. Slopes of curves. Tangents and derivatives. Increasing and decreasing functions. Rates of change. A dash of limits. Simple rules for differentiation. Sums, products and quotiens. Chain rule. Higher-order derivatives. Exponential functions. Logarithmic functions. Economic examples and applications. [2.5 weeks].

5-. Derivatives in use. [Chap. 7]. Implicit differentiation. Differentiating the inverse. Linear approximations. Polynomial approximations. Taylor´s formula. Continuity. More on limits. Intermediate value theorem. Infinite sequences. L´Hôpital´s rule. Economic examples and applications. [2.5 weeks].

6-. Integration. [Chap. 9]. Indefinite integrals. Area and definite integrals. Properties of definite integrals. Integration by parts. Integration by substitution. Infinite intervals of integration. Separable and linear differential equations. Economic examples and applications. [2.5 weeks].

7_. Single-variable optimization. [Chap. 8]. Simple tests for extreme points. The extreme value theorem. Local extreme points. Inflection points. Economic examples and applications. [1 week].

Note: *the chapter No. corresponds to the recommended book of "Essential Mathematics for Economic Analysis" 4th Ed. by Knut Sydsaeter & Peter Hammond, Pearson.*

Updated: the 25th of August, 2014.

Assessment

The final mark of this course will be the average weight of the following:

December exam	***Date***
• Short exams -5- (15 min. each): 40%	---surprise---
• Midterm exam (120 min.): 10%	13th October, 2014. Room: TBA
• Final exam (120 min.): 50%	5th December, 2014. Room 15
• Precalculus: 5%	

June exam

• Short exams -5- (15 min. each): 40 %	---surprise---
• Midterm exam (120 min.): 10%	13th October, 2014. Room: TBA
• Final exam (120 min.): 50%	13th June 13, 2014. Room: 03
• Precalculus: 5%	

Updated the 2nd of September, 2014

Educational Activities

The course includes different face-to-face and non face-to-face activities.

Face-to-face activities:

1. Theoretical/practical classes: 36 hours.
2. Problem solving classes. Each week a problem set will be assigned and some problems will be discussed in class: 20 hours.
3. Seminars (application to Economics and Business): 4 hours.
4. Exams. Midterm and Final exams: 4 hours.

Non face-to-face activities:

1. Personal solving problems:46 hours.
2. Personal study: 40 hours (there will be support groups for 24 out of these 40 hours).

Total face-to-face activities: 64 hours.

Total non face-to-face activities: 86 hours.

PRECALCULUS SUPPORT CLASSES

Due to the heterogeneity of the students' mathematical levels (either coming from sciences or from humanities) and aiming to ease the learning process of this course, a test will be held on **Tuesday, the 2nd of September** to assess the precalculus level of each student. Those students who had not passed this test (marks less than 6) will have to attend compulsorily support classes focused on those topics that had not been properly understood before, either because they had not been studied or because

they had not been learned deeply enough. Students that had passed this initial test will have non-compulsory support classes. Nevertheless a bonus of 5% of the final mark will be given to those students attending support classes or to those that had passed the initial test. More information about these support classes will be given further on.

Classes of the Calculus I course will include theoretical and practical sessions, problem-solving sessions, computer laboratory sessions and seminars where particular applications to Economics and Business will be discussed.

Each week students will be given a set of problems to solve and reinforce the topics that have been learned. One class per week will be devoted to discuss these exercises.

Apart from a midterm and a final exam, several surprise tests will be held. Dates for the midterm and final exams will be fixed by the faculty and will be published in due course.

Support classes

- They will consist of two weekly hours (in small groups) where those problems that have been assigned the previous week will be discussed. Sets of problems will be available on the web.
- The distribution of groups will be published at the end of the first week of classes.
- From October onwards, the precalculus classes will be focused on the reinforcement of the units being taught throughout the Calculus I course.
- The first week of October an optional test will be held. Those students that successfully complete this test may stop attending the support classes. However, if they wish they can continue attending these classes in order to foster those notions being learned in classes. We would like to emphasize that this test is non-compulsory.
- The 5% bonus requires no more than 2 absences to the support classes which must be properly justified (in case of illness a medical certificate must be provided).

Bibliography and Resources

- Sydsaeter, K., Hammond, P., Strom, A. (2012). *Essential Mathematics for Economic Analysis.* 4th Edition. Pearson.
- Chiang, A. and Wainwright, K. (2005). *Fundamental methods of Mathematical Economics.* 4th Edition. McGraw Hill.
- Larson, R. and Edwards, B.H. (2011). *Calculus*. 9th Edition. McGraw Hill.

Find these books at the Library

Updated the 1st of September, 2014

Office hours

- Montserrat Ana Miranda Galcerán.
- María Castillo: Mondays from 16:00 to 17:30 and Thursdays from 13:00 to 14:30, office 2280 (2nd floor, Row).

Universidad de Navarra

Updated: the 14th of January, 2015

Universidad de Navarra

Asignatura: **Calculus II C (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Introduction

http://www.unav.es/asignatura/calculus2Ceconom/

Calculus II C (F. ECONÓMICAS)

Course description: The aim of this course is to provide the basic tools of ***optimization and functions of many variables*** which are necessary to succeed in the following courses that are taking part in the degrees of Economics, Management and Business Administration.

Department: Economics

School: Economics and Business

Degrees: IDE and Governance

Year: 1st

Semester: 2nd

ECTS credits: 6 (approximately 150 working hours)

Type: compulsory

Language: English

Instructors: GOV/IDE

- Chandresh Thakrar (cthakrar@unav.es) office 2300 (2nd Floor Hilera)
-

Course schedule and room:

- Thursdays : 16:00 to 18:00 (Room 07)
- Fridays : 15:00 to 17:00 (Room 07)

Competences

Competences of the course

1. Knowledge

Students following this course will attain the following expertise:

- To be able to analyze functions of many variables.

- To be able to solve single variable optimization.
- To be able to solve multiple and constrained optimization.

2. Skills and attitudes

Students must be able to:

- Examine and solve problems by using the most suitable mathematical tool from the available sources.
- Develop the critical capacity over the obtained results so as to discern which of them are useful in an economic and business framework, and as the basis of a decision-making process.
- Use the modern mathematical language considering that interdisciplinary team work involves the interaction between different types of professionals such as economists, mathematicians, software engineers...
- Learn how to manage work in teams.

3. Learning outcomes

At the end of this semester, students should have gained the proper knowledge, skills and attitudes that are expected from this course. The achievement of these targets will be assessed with different exams and tests.

Competences of the degree

The general or transverse competences that are developed throughout this course are the following:

Transverse competences:

1. Development of logical thinking skills.

2. Capacity for analysis and synthesis when addressing problems.

3. Sense of responsibility and effort.

4. Ability to work in a team.

5. Planning tasks and time management.

6. Capacity to learn on ones own.

The course of Calculus II is part of Module IV: Quantitative Methods for Economics for the Degree in Economics. With regard to the characteristic competences that must be acquired with the subjects in this module, the course of Calculus II achieves the following:

Specific competences for the Degree in Economics:

1. Implementing mathematical reasoning and quantitative tools to the analysis of the current state of the economy.

This competence *is divided into two* of the specific competences of Module IV:

- To know, comprehend and use mathematical reasoning.
- To delve into the knowledge of quantitative methods for the economics analysis.

At the same time, the course of Calculus II belongs to Module IV: Quantitative Methods for Business for the Degree in Business Administration. The course of Calculus II as a part of this module achieves the following competence:

Specific competences for the Degree in Business Administration:

1. Implementing mathematical reasoning and quantitative tools to problem solving associated to the decision-making process in the business administration.

This competence *is divided into two* of the specific competences of Module IV:

- To know, comprehend and use mathematical reasoning.
- To know how to implement quantitative tools to the problem solving process involved in the business field.

Program

1-. Functions of many variables. [Chapter 11]. Functions of two variables. Partial derivatives with two variables. Functions of more variables. Partial derivatives with more variables. Partial Elasticities. Economic examples and applications. [1.5 weeks].

2-. Tools for comparative statics. [Chapter 12]. A simple chain rule. Chain rules for many variables. Implicit differentiation along a level curve. More general cases. Homogeneous functions of two variables. Homogeneous and homothetic functions. Linear approximations. Differentials. Economic examples and applications. [3 weeks].

3-. Multiple optimization. [Chapter 13]. Two variables: necesary conditions. Two variables: sufficient conditions. Local extreme points. Linear models with quadratic objectives. The extreme value theorem. Three or more variables. Comparative statics and the envelope theorem. Economic examples and applications. [3 weeks].

4-. Constrained optimization. [Chapter 14]. The Lagrange multiplier method. Interpreting the Lagrange multiplier. Why the Lagrange methods Works. Sufficient conditions. Additional variables and constraints. Comparative statics. Non-linear programming: A simple case. Multivariate inequality constraints. Nonnegativity constraints. Economic examples and applications. [2 weeks].

5-. Difference Equations. First-order difference equations. Stationary States and stability. Linear equations with variable coefficients. Equations of second order. Equations of second order with coefficients.[2 weeks]

6-. Differential Equations. Differential equations of the first order. Qualitative theory of differential equations. Variables separable differential equations. First order linear differential equations. Qualitative theory and stability. Differential equations of second order. Equations of second order with coefficients constants.[2 weeks]

Assessment

Assessment for Calculus II

The final mark of this course will be the average weight of the following:

- Mid-term exam 120 mins: 20% Date: March 4th, 2015 Time/Aula: TBA
- Final exam 120mins: 60% Date: May 12th, 2015 Time/Aula: TBA
- Surprise tests x5***** (15 mins each):20% Dates: Determined by the professor on ad-hoc basis

*** The 20% assessment for the surprise tests is based on the best 4 scores out of 5.**

You must pass the final exam in May with a minimum score of 5/10 in order to pass the Calculus II course.

Educational activities

The course includes different face-to-face and non face-to-face activities.

Classes of the Calculus II course will include theoretical and practical sessions, problem-solving sessions where particular applications to Economics and Business will be discussed.

Each week students will be given a set of problems to solve and reinforce the topics that have been learned. One class per week will be devoted to discuss these exercises.

Apart from a mid-term and a final exam,several surprise tests will be held.

Face-to-face activities:

1. Theoretical/practical classes: 36 hours.
2. Problem solving classes. Each week a problem set will be assigned and some problems will be discussed in class: 24 hours.
3. Exams. Mid-term and Final exams: Total of 4 hours.

Non face-to-face activities:

1. Personal solving problems: 46 hours.
2. Personal study: 40 hours (there will be support groups for 24 out of these 40 hours).

Total face-to-face activities: 64 hours.

Total non face-to-face activities: 86 hours.

Methodology

The course includes different face-to-face and non face-to-face activities.

Due to the heterogeneity of the students' mathematical levels (either coming from sciences or from humanities) and aiming to ease the learning process of this course, a test will be held on **Tuesday, the 2nd of September** to assess the precalculus level of each student. Those students who had not passed this test (marks less than 6) will have to attend compulsorily support classes focused on those topics that had not been properly understood before, either because they had not been studied or because they had not been learned deeply enough. Students that had passed this initial test will have non-

compulsory support classes. Nevertheless a bonus of 5% of the final mark will be given to those students attending support classes or to those that had passed the initial test. More information about these support classes will be given further on.

Classes of the Calculus I course will include theoretical and practical sessions, problem-solving sessions, computer laboratory sessions and seminars where particular applications to Economics and Business will be discussed.

Each week students will be given a set of problems to solve and reinforce the topics that have been learned. One class per week will be devoted to discuss these exercises.

Apart from a midterm and a final exam, several surprise tests will be held. Dates for the midterm and final exams will be fixed by the faculty and will be published in due course.

Support classes

- They will consist of two weekly hours (in small groups) where those problems that have been assigned the previous week will be discussed. Sets of problems will be available on the web.
- The distribution of groups will be published at the end of the first week of classes.
- From October onwards, the precalculus classes will be focused on the reinforcement of the units being taught throughout the Calculus I course.
- The first week of October an optional test will be held. Those students that successfully complete this test may stop attending the support classes. However, if they wish they can continue attending these classes in order to foster those notions being learned in classes. We would like to emphasize that this test is non-compulsory.
- The 5% bonus requires no more than 2 absences to the support classes which must be properly justified (in case of illness a medical certificate must be provided).

Bibliography and Resources

Find these books at the library

- Sydsaeter, K., Hammond. (2008). *Essential Mathematics for Economic Analysis.* 3rd Edition. Pearson.

Office hours

- Chandresh Thakrar: Mondays and Wednesdays 10am-11am: Office 2300 (2nd Floor Hilera) Amigos Building.
- Elena Aguiluz: Tuesdays 17:30 to 19:30 : Office 2300 (2nd Floor Hilera) Amigos Building.

Universidad de Navarra

Asignatura: **Contabilidad I A (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Presentación

http://www.unav.es/asignatura/contabilidad1Aeconom/

Contabilidad I A (F. ECONÓMICAS)

En Contabilidad I se realiza una introducción en la materia de la contabilidad con un enfoque especial en la familiarización de los estudiantes con el Plan General de Contabilidad 2007.

CURSO 2.014-2.015

Departamento: Empresa

Facultad: Económicas y Empresariales.

Titulaciones en las que se imparte: Economía (ECO) , Administración y Dirección de

Empresas (ADE) y dobles grados (ECO/ADE y Derecho).

Planes de estudios: ECO,ADE,ECO/ADE y Derecho, IDE, IDM,GEL,GML.

Curso: 1º (ECO/ADE, IDM), 2º Dobles grados (ECO/ADE y Derecho).

Organización: Primer semestre académico, de Septiembre a Diciembre.

Número de créditos ECTS: 6 cr (150h).

Tipo de asignatura: Obligatoria.

Idioma en que se imparte la asignatura: Castellano.

Horario: 4 horas por semana (13 semanas).

Lunes: De 18.00 a 20.00 horas.

Martes: De 15.00 a 17.00 horas.

Aula donde se imparte: Aula 02 (Edificio Amigos).

Fecha inicio de las clases: 1 de septiembre.

Fecha fin de la asignatura: 2 de diciembre.

Fecha de examen convocatoria ordinaria:

Parcial: 14 de octubre de 2014.

Final: por determinar.

Fecha de examen convocatoria extraordinaria: Por determinar.

Coordinadora de la asignatura: María Asunción Gómiz Chazarra (mgomiz@unav.es)

Cuadro docente

Maria Asunción Gómiz (mgomiz@unav.es)

José Luis Alfonso (jl.alfonso@uam.es)

Ana Freire (anafreire@3pbio.com)

Competencias

Objetivos de contenidos

Contabilidad I es la primera parte de la materia de Contabilidad Financiera impartida en el primer curso de la Facultad de Ciencias Económicas y Empresariales de la Universidad de Navarra. El alumno, no teniendo nociones previas de Contabilidad, al final del semestre académico debe adquirir un nivel básico y general de conocimientos contables.

Con esta finalidad, el programa de la primera parte, queda dividido en dos grandes bloques: "Fundamentos de la Contabilidad", y "La Información Contable: enfoque global".

En el primer bloque el alumno adquiere los conocimientos sobre los elementos que configuran la Contabilidad como sistema de información y forma de lenguaje.

En el segundo bloque el alumno debe conocer la necesidad de la planificación y organización de la información contable, para pasar a estudiar el Plan General de Contabilidad y el registro de la información contable ajustada a dicho Plan.

Para conseguir los objetivos anteriormente mencionados, el alumno desarrollará las siguientes competencias, mediante la asistencia y participación en las clases teóricas, el trabajo personal a través del estudio, la realización de supuestos prácticos y ejercicios de manera individual y la participación en las tareas en grupo:

Competencias del Título:

1. Alimentar la sensibilidad hacia los problemas éticos, sociales y medioambientales de los asuntos empresariales.

2. Desarrollo del razonamiento lógico.

3. Capacidad de análisis y síntesis de las problemáticas abordadas.

4. Motivación y superación.

5. Sentido de la responsabilidad y del esfuerzo.

6. Capacidad de comunicación oral.

7. Capacidad de trabajo en equipo.

8. Capacidad crítica y autocrítica.

9. Planificación de tareas y gestión del tiempo.

10. Puntualidad y ética en el trabajo.

11. Capacidad de aprendizaje autónomo.

Competencias de la asignatura:

1. Conocer en profundidad el Plan General Contable.
2. Ser capaz de analizar la situación económico-financiera de cualquier empresa utilizando las cuentas anuales.
3. Obtener un conocimiento teórico-práctico del funcionamiento de la empresa
4. Desarrollar casos prácticos.

De entre estas competencias, cabe destacar que la asignatura permitirá al alumno estudiar el Plan General de Contabilidad 2007 y el registro de la información contable ajustada a dicho Plan.

Objetivos de habilidades y competencias:

1. El alumno debe ser capaz de:

2. Expresarse y redactar con claridad haciendo un uso correcto de términos contables básicos.

3. Realizar una primera aproximación al manejo del Plan General de Contabilidad.

Objetivos actitudinales:

1. Desarrollar la capacidad de escucha activa.

2. Ser capaz de trabajar en equipo.

3. Prepararse para la superación de las dificultades que le esperan en los cursos posteriores al Grado.

Programa

TEMA 1: LA CONTABILIDAD

1. Información económica, ¿es necesaria?

2. Concepto y desempeño de la Contabilidad

3. Contabilidad: Objeto material y formal

4. Contabilidad Financiera

5. El balance: patrimonio, activo y pasivo

TEMA 2: LA PARTIDA DOBLE

1. Introducción

2. El método de la partida doble

3. Principio fundamental del método de la partida doble

4. Reglas de funcionamiento necesarias para que se cumpla el principio fundamental del método de la partida doble

5. El ciclo y los instrumentos contables

TEMA 3: FUNCIONAMIENTO DE LAS CUENTAS

1. Introducción

2. Cuentas administrativas

3. Cuentas especulativas

4. Cuentas de diferencias y cuentas de gastos e ingresos

TEMA 4: NORMALIZACIÓN CONTABLE

1. Introducción

2. Concepto de normalización contable

3. Estructura del Plan General de Contabilidad español

4. Los principios contables

5. El cuadro de cuentas: organización

TEMA 5: REPRESENTACIÓN NORMALIZADA DEL PROCESO ECONÓMICO: DESARROLLO DEL CICLO CONTABLE CON EL PLAN GENERAL DE CONTABILIDAD ESPAÑOL I

1. El proceso contable como reflejo del proceso económico

2. Apertura de la contabilidad

3. Representación de las transacciones

TEMA 6: REPRESENTACIÓN NORMALIZADA DEL PROCESO ECONÓMICO: DESARROLLO DEL CICLO CONTABLE CON EL PLAN GENERAL DE CONTABILIDAD ESPAÑOL II

1. Determinación del resultado de período

2. Cierre de la contabilidad

TEMA 7: PRESENTACIÓN DE LOS ESTADOS CONTABLES

1. Introducción

2. El balance de situación

3. La cuenta de pérdidas y ganancias

4. La memoria

MATERIAL NECESARIO PARA SEGUIR LAS CLASES: TEXTO DEL PLAN GENERAL DE CONTABILIDAD APROBADO POR EL REAL DECRETO 1514/2007, DE 16 DE NOVIEMBRE.

Actividades formativas

1. Actividades presenciales:

a. Clases teóricas: 24 horas. En estas clases, el profesor explica los fundamentos teóricos sobre los que se asienta la contabilidad.

El profesor plantea y resuelve ejemplos que servirán para aplicar los conocimientos explicados,

del mismo modo el profesor realizará preguntas cortas para comprobar si se han entendido conceptos

de temas anteriores o cuestiones del tema que se está exponiendo, con la finalidad de propiciar la participación.

b. Clases prácticas: 24 horas.

. En las clases prácticas se trabajará de la siguiente forma:

- En la primera parte los alumnos interactúan con el profesor para intentar ofrece una solución a los problemas planteados.

- En la segunda parte el profesor explica la solución de los problemas.

- En algunos casos, será el alumno el que resolverá y explicará el supuesto públicamente.

- Durante el semestre tendrán lugar algunos seminarios donde se resolverán dudas de la asignatura así como supuestos más complejos para aquellos alumnos

que lo necesiten.

c. Exámenes parcial y final: 6 horas.

2. Actividades no presenciales:

Cada grupo formado por cinco personas realizará y presentará al final del semestre un informe breve sobre la situación económica y financiera de una sociedad real

que podrán elegir ellos mismos. Los alumnos tendrán que buscar las cuentas anuales individuales 2013 de una empresa, observarán que cumplen las normas de

elaboración de las cuentas anuales y las interpretarán.

Los alumnos dispondrán semanalmente de una noticia actual de gran relevancia para la contabilidad que puede ser comentada en clase.

El alumno dedicará unas 96 horas a entender los conceptos explicados en las clases del profesor y preparar los ejercicios y trabajos de la asignatura.

Cronograma

		Contabilidad I A	
Semana		Horas	Tema
Prof. Asun			
Semana 1	Clase Teórica	4	Tema 1. La Contabilidad
01-Sep-14	Clase Práctica	0	
	Estudio personal	3	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
Semana 2	Clase Teórica	2	Tema 2. La Partida Doble
08-Sep-14	Clase Práctica	2	
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
Semana 3	Clase Teórica	4	Tema 3. Funcionamiento de las cuentas
15-Sep-14	Clase Práctica	0	
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
Semana 4	Clase Teórica	0	Tema 2 y 3. La Partida Doble.

			Funcionamiento cuentas.
22-Sep-14	Clase Práctica	4	
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
			Tema 4.
Semana 5	Clase Teórica	4	Normalización contable
29-Sep-14	Clase Práctica	0	
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
			Tema 4.
Semana 6	Clase Teórica	0	Normalización contable
06-Oct-14	Clase Práctica	4	
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
Semana 7	Clase Teórica	0	Semana de exámenes
13-Oct-14	Clase Práctica	0	
	Estudio personal	4	
	Examen	3	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
Semana 8	Clase Teórica	4	Tema 5. Representación normalizada proceso económico. Desarrollo ciclo
20-Oct-14	Clase Práctica	0	contable con el PGC español I.
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
Semana 9	Clase Teórica	2	Tema 5. Representación normalizada proceso económico. Desarrollo ciclo
27-Oct-14	Clase Práctica	2	contable con el PGC español I.
	Estudio personal	4	

	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
Semana 10	Clase Teórica	2	Tema 6:Representación normalizada proceso económico.
03-Nov-14	Clase Práctica	2	Dearrollo ciclo contable con e PGC españos II.
	Estudio personal	0	
		1	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
Semana 11	Clase Teórica	3	Tema 6. Representación normalizada proceso económico.
10-Nov-14	Clase Práctica	1	Desarrollo ciclo contable con el PGC español II.
	Estudio personal	4	
	Examen	0	
	Otros (trabajos, entregas, etc)	0	
Prof. José L.			
Semana 12	Clase Teórica	2	Tema 6. Representación normalizada proceso económico.
17-Nov-14	Clase Práctica	2	Desarrollo ciclo contable con el PGC español II.
	Estudio personal	3	
	Otros (trabajos, entregas, etc)		
Prof. Asun			
Semana 13	Clase Teórica	2	Tema 7. Representación de los estados contables
24-Nov-13	Clase Práctica	2	lunes, 25 de noviembre, control tema 6.
	Estudio personal	3	
	Otros (trabajos, entregas, etc)	0	
Prof. Asun			
Semana 14	Clase Teórica	0	Temas 1 a 7.
	Clase Práctica	0	
	Estudio personal	15	Tutorías especiales:
	Examen	3	el profesor atenderá

Otros (trabajos, entregas, etc)	0	personalmente a los alumnos en su despacho sobre dudas concretas de exámenes anteriores y sobre ejercicios propuestos

Evaluación

CONVOCATORIA ORDINARIA

La evaluación final tendrá en cuenta la implicación y la evolución del alumno en la comprensión de la materia y se realizará con base a los siguientes criterios:

La calificación final de la asignatura se calculará con la media ponderada obtenida entre las siguientes notas:

- Valoración de una primera prueba que consistirá en la resolución de un supuesto relativo a la materia estudiada en el tema 5 de esta asignatura : 7,5%.
- Valoración de una segunda prueba que consistirá en la resolución de un supuesto relativo a la materia estudiada en el tema 6 de la asignatura: 7,5%.
- Trabajo en grupo: consiste en la realización de un breve informe sobre la interpretación de las cuentas anuales (balance de situación y cuenta de P y G) del ejercicio económico 2.013, en dicho informe se debe dar respuesta a una serie de cuestiones que plantea el profesor: 5%
- Tanto el análisis economico-financiero como el Balance y la cuenta de Pérdidas y Ganancias debe entregarse en formato papel, un ejemplar por cada grupo. Además, el Balance y la cuenta de Resultados debe enviarse vía mail en formato excel. Dicho formato debe contener las fórmulas oportunas que calculen los porcentajes solicitados, así como la sumas de las diferentes masas patrimoniales.

  Plazo de entrega será hasta el 28 de noviembre.

- Asistencia y participación: 5%
- Examen parcial: 15%. No tiene carácter eliminatorio.
- Examen final: 60%. Incluye toda la materia acumulada y estudiada en la asignatura.

-Los exámenes anunciados (parcial y final) :

- Constarán de un supuesto teórico formado por cuatro o seis preguntas cortas donde se evalúa los conocimientos teóricos adquiridos y de tres supuestos prácticos para evalúar la aplicación de conceptos utilizados durante las clases teóricas y prácticas.

- El profesor podrá pedir la entrega de determinados supuestos. Los alumnos que presenten al profesor todos los supuestos solicitados podrán obtener un bonus del

2% sobre la nota final.

- El alumno dispondrá de algunos exámenes resueltos de años anteriores, con la

finalidad de que le sirvan como ejemplo de lo que sería un examen bien hecho.

- Tendrán lugar en las fechas y lugares que se indican con antelación.

- Son obligatorios.

- Son acumulativos; es decir, el final acumula toda la materia del semestre.

- Se aplica la media ponderada anterior siempre que la nota mínima del examen final sea igual o superior al 4.

CONVOCATORIA EXTRAORDINARIA

- Valoración de la primera prueba: 5%.
- Valoración de la segunda prueba: 5%.
- Valoración del trabajo en grupo: 5%.
- Examen parcial:.10%.
- Examen final: 75%.

La estructura de este examen final será similar al examen final en convocatoria ordinaria.

Bibliografía y recursos

Libros:

Básico:

Localiza este libro en la Biblioteca

- Alfonso López, J. L., Acedo Gallardo, F., López Espinosa, G. y Mollá Cots, S. (2009): *La Contabilidad Financiera. Guía Pedagógica adaptada al Plan General de Contabilidad 2007*. Editorial Aranzadi - Thomson Reuters.

Complementario:

- López Espinosa, G., Acedo Gallardo, F., Alfonso López, J.L., Forner Rodríguez, C., Garrido Miralles, P., Iborra Torregrosa, V., Iñiguez Sánchez, R., Izquierdo Martín , D., López Alberts, H., Poveda Fuentes, P., Ragué Santos de La Madrid, J., Torres Sempere, J. y Vaelló Sebastiá, T. (2008): *Fundamentos Teóricos y Prácticos del Nuevo Plan General Contable*. Editorial Aranzadi - Thomson Reuters.

Revistas interesantes:

- Revista de derecho de sociedades.
- Partida Doble.

Textos legales:

- Plan General de Contabilidad aprobado mediante REAL DECRETO 1514/2007, de 16 de noviembre.
- LEY 16/2007, de 4 de julio, de reforma y adaptación de la legislación mercantil en materia contable para su armonización internacional con base en la normativa de la Unión Europea.

Horarios de atención

Profesor María Asunción Gómiz Chazarra

Lugar de tutorías: Despacho 2540. 2ª planta de la torre (Edificio Amigos)

Horario de atención: Miércoles de 9,00 a 14 horas.

Concertar cita previamente por mail.

Material de apoyo

En las páginas de intranet de la asignatura encontrará, conforme se hagan disponibles, los siguientes materiales:

- Esquemas de los capítulos.
- Supuestos resueltos como prácticas de los capítulos correspondientes.
- Supuestos complementarios de apoyo al estudio.
- Glosario de términos básicos de contabilidad financiera.
- Otros ejemplos resueltos de mayor complejidad.
- Noticias económicas actuales relacionadas con la materia objeto de estudio.
- Exámenes resueltos de años anteriores.

Contenidos

Universidad de Navarra

Asignatura: **Contabilidad II A (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Presentación

http://www.unav.es/asignatura/contabilidad2Aeconom/

Contabilidad II A (F. ECONÓMICAS)

En Contabilidad II se estudian las Normas de Registro y Valoración del Plan General de Contabilidad con especial énfasis en la capacidad del alumno para interpretar los aspectos problemáticos de las mismas.

Créditos ECTS: 6

Curso: Primero

Cuatrimestre: Segundo

Grados: ADE, Economía y Dobles licenciaturas

Idioma en que se imparte la asignatura: Castellano

Lugar de las tutorías: Despacho 2200 (Edificio Amigos). Profesor Germán López Espinosa

Horario de las tutorías: Lunes 11:00 – 14:00 horas

Coordinador de la asignatura: Germán López Espinosa (glespinosa@unav.es).

Competencias

Con esta segunda parte se pretende que los alumnos de la Facultad de Ciencias Económicas y Empresariales de la Universidad de Navarra, que cuentan con la base de conocimientos conseguida en la primera parte, completen, por una parte, su formación en Contabilidad financiera y, por otra, se

inicien en el estudio de la Contabilidad Analítica.

Si vemos las cosas desde el Plan General de Contabilidad, se puede decir que en la primera parte se han estudiado cuatro partes del PGC 2007: marco conceptual, cuentas anuales, cuadro de cuentas y definiciones y relaciones contables. En este segundo semestre nos vamos a centrar en el estudio de la segunda parte del PGC, o sea, las normas de valoración. El procedimiento de trabajo en esta segunda parte es siempre el mismo: Ante el problema de tener que representar un concepto contable cualquiera, lo primero que haremos será dirigirnos a la norma correspondiente para tomar en consideración las instrucciones que en ella se dan. El profesor explicará la finalidad que se pretende con la misma, las limitaciones que tiene e intentará que el alumno pueda incluso ser capaz de adoptar una visión crítica con ciertos hechos regulados en la misma.

A continuación el alumno tiene que buscar en el cuadro de cuentas aquellas cuentas que están preestablecidas para representar el hecho económico en estudio. Si surgieran dudas sobre la representatividad de las cuentas a utilizar, la consulta a la quinta parte será necesaria, y en el caso de que tal cuenta no esté prevista en el PGC, el profesor explicará la forma de crear cuentas o subcuentas para aquellos hechos en los que no exista representatividad en la quinta parte. Por todo ello, se considera necesario que el alumno siempre disponga del PGC para las clases de esta asignatura.

Si comparamos ahora el tipo de dificultad que el alumno ha de afrontar para la adquisición de los conocimientos en las dos partes, se puede decir que mientras en la primera, los conocimientos contenidos en los primeros temas son siempre imprescindibles para abordar la comprensión de los conocimientos contenidos en los temas que vienen después, hasta el punto de ser prácticamente imposible comprender el segundo tema si previamente no se han adquirido los conocimientos contenidos en el primer tema, ni comprender el tercero si no se ha hecho lo mismo respecto del primero y segundo, en esta segunda parte las cosas son completamente diferentes, y así, el alumno puede llegar a saberlo todo sobre una norma de valoración concreta sin haberse mirado nada de otra norma de valoración que es estudiada en el tema anterior.

Realizando una comparación, se puede decir que, mientras el estudio de la primera parte es como subir una escalera, que necesariamente se ha de realizar pasando por todos los escalones siguiendo estrictamente el orden en el cual se encuentran situados, el de la segunda parte es como limpiar una casa, pudiendo empezar por una determinada habitación, por la cocina, el baño etc… Obsérvese que la situación idónea es limpiar toda la casa, al igual que para el alumno es aprender todo el temario pues esto sirve para tener una visión más amplia de los distintos hechos económicos que hay que registrar en una empresa.

Los temas a tratar en esta segunda parte han sido seleccionados en base a la importancia de sus correspondientes normas de valoración. Las competencias definidas en los grados de Administración de Empresas y Economía, y que se corresponden de forma directa con el contenido, metodología y evaluación seguida en esta asignatura son las siguientes:

Competencias del título:

1. Desarrollo del razonamiento lógico.

2. Capacidad de análisis y síntesis de las problemáticas abordadas.
3. Motivación y superación.
4. Sentido de la responsabilidad y del esfuerzo.
5. Capacidad crítica y autocrítica.
6. Planificación de tareas y gestión del tiempo.
7. Capacidad de aprendizaje autónomo.
8. Iniciación en técnicas de investigación básica, así como la expresión escrita de sus resultados en trabajos profundos aunque breves.

Competencias de la asignatura:

1. Conocer en profundidad el Plan General Contable y los conceptos teóricos de la Contabilidad y las Finanzas.
2. Desarrollar casos prácticos.
3. Saber relacionarlo con la normativa internacional del IASB.
4. Analizar e interpretar casos reales donde no existe regulación específica en el PGC.
5. Obtener un conocimiento teórico-práctico de la regulación contable.

De entre estas competencias, cabe destacar que la asignatura permitirá al alumno estudiar el Plan General de Contabilidad 2007 y su relación con la normativa internacional elaborada por el IASB.

Programa

TEMA 8. LA LIQUIDEZ

TEMA 9. LAS EXISTENCIAS

TEMA 10. EL INMOVILIZADO MATERIAL

TEMA 11. EL INMOVILIZADO INTANGIBLE

TEMA 12. LOS ACTIVOS NO CORRIENTES Y GRUPOS ENAJENABLES DE ELEMENTOS MANTENIDOS PARA LA VENTA

TEMA 13. ARRENDAMIENTOS Y OTRAS OPERACIONES DE NATURALEZA SIMILAR

TEMA 14. LOS ACTIVOS FINANCIEROS

TEMA 15. LOS PASIVOS FINANCIEROS

MATERIAL NECESARIO PARA SEGUIR LAS CLASES: TEXTO DEL PLAN GENERAL DE CONTABILIDAD APROBADO POR EL REAL DECRETO 1514/2007, DE 16 DE NOVIEMBRE.

Actividades formativas

La asignatura está compuesta de clases teóricas y prácticas, si bien la finalidad de la misma es eminentemente práctica. El programa comprende un total de ocho temas. En las clases, se resolverán ejercicios propuestos por los profesores de la asignatura que servirán para aplicar los conocimientos adquiridos.

Durante el semestre, el alumno tendrá que realizar dos informes individuales sobre algún tema seleccionado por el profesor en el que se prestará especial atención a la capacidad del alumno para desarrollar soluciones contables, sin trabajar numéricamente, basándose en la normas y en el marco conceptual. El tema será relevante y de una cierta complejidad contable por lo que el alumno deberá fundamentar la solución aportada. La habilidad para fundamentar más que la solución concreta será el aspecto más relevante.

Se propone al alumno que pregunte al profesor cualquier noticia de actualidad que tenga relación con la contabilidad y que el alumno quiera profundizar.

Evaluación

La asignatura está compuesta de clases teóricas y prácticas, si bien la finalidad de la misma es eminentemente práctica. El programa comprende un total de ocho temas. En las clases, se resolverán ejercicios propuestos por los profesores de la asignatura que servirán para aplicar los conocimientos adquiridos. El alumno tendrá que realizar un examen parcial, dos informes individuales y un examen final. El examen parcial tendrá una valoración de un 25%, los informes individuales un 15% y el examen final un 60%.

Para la preparación de los exámenes es muy importante la asistencia a clase pues en las clases se darán explicaciones a situaciones que no están contempladas en las transparencias que se facilitan a los alumnos y que son muy importantes para el examen parcial y final.

El examen parcial es liberatorio para aquellos alumnos que obtengan un mínimo de un 5. Para aprobar la asignatura es obligatorio que el alumno saque un mínimo de un 3,5 en el examen final. Adicionalmente se valorará positivamente la participación de los alumnos en el transcurso de las clases así como el nivel de las preguntas realizadas.

Se realizará un examen parcial en el que el alumno se enfrentará a diversos ejercicios de los temas tratados durante las primeras semanas del semestre. Como siempre, la fundamentación en base a la normativa así como la solución aportada serán las claves para valorar la puntuación obtenida por el alumno y no exclusivamente la solución numérica.

Durante el semestre, el alumno tendrá que realizar dos informes individuales. Por último se realizará un examen final en el que el alumno se enfrentará a diversos ejercicios de los temas tratados en clase. La fundamentación en base a la normativa

así como la solución aportada serán las claves para valorar la puntuación obtenida por el alumno.

Para la convocatoria extraordinaria se mantendrá la valoración de los trabajos individuales, siendo la valoración del examen parcial de un 15%, por lo que el examen extraordinario tendrá una valoración del 70% de la nota final.

Bibliografía y recursos

Libros:

Básico:

Localiza este libro en la Biblioteca

Alfonso López, J. L., Acedo Gallardo, F., López Espinosa, G. y Mollá Cots, S. (2009): *La Contabilidad Financiera. Guía Pedagógica adaptada al Plan General de Contabilidad 2007*. Editorial Aranzadi - Thomson Reuters.

Complementario:

López Espinosa, G., Acedo Gallardo, F., Alfonso López, J.L., Forner Rodríguez, C., Garrido Miralles, P., Iborra Torregrosa, V., Iñiguez Sánchez, R., Izquierdo Martín , D., López Alberts, H., Poveda Fuentes, P., Ragué Santos de La Madrid, J., Torres Sempere, J. y Vaelló Sebastiá, T. (2008): *Fundamentos Teóricos y Prácticos del Nuevo Plan General Contable*. Editorial Aranzadi - Thomson Reuters.

Revistas interesantes:

- Revista de derecho de sociedades.
- Partida Doble.

Textos legales:

- Plan General de Contabilidad aprobado mediante REAL DECRETO 1514/2007, de 16 de noviembre.
- LEY 16/2007, de 4 de julio, de reforma y adaptación de la legislación mercantil

en materia contable para su armonización internacional con base en la normativa de la Unión Europea.

Horarios de atención

Las tutorías del profesor Germán López Espinosa, durante el segundo semestre, son los lunes de 11 a 14 horas en el despacho 2200 del Edificio Amigos de la Universidad de Navarra.

Universidad de Navarra

Asignatura: **Fundamentals of Finance C**
Guía Docente
Curso académico: 2014-15

1. General info

Fundamentals of Finance C

Professors:	Dr. Ian P.L. Kwan	Prof. Carmen Aranda León
Office:	4030 (La Torre)	3070 (La Torre)
Email:	ikwan@unav.es	maranda@unav.es
Telephone:	948 425 600 (ext 802496)	948 425 600 (ext 802789)
Language/in-charge:	English section	Spanish Section

Dr. Kwan will give most of the classes in the English Section

Teaching dates: 1 September 2014 onwards

School/ Dept: School of Economics and Business/ Business

Type of course: Fundamental/ Basic

Course credits: 6 ECTS = 60 hours class time

Semester: First

Undergrad degree: First year of:

- International Degree in Management (IDM)
- International Degree in Economics (IDE)
- Global Management and Law (GML)
- Global Economics and Law (GEL)

Second year of:

- Economics, Leadership and Governance (GOV)

Other:

- Exchange students who are taking the first course in Finance

- Liberal arts students

Teaching Schedule: Group A: IDM / I on Tues 18:00-20:00 and Fri 15:00-17:00

Group B: GML/ GEL on Wed and Fri at 9:00-11:00

Group C: IDE/ GOV on Wed 16:00-18:00 and Thu 18:00-20:00

2. Subject Info

Subject description:

This course aims to provide the first year students with a sound introduction to the use of mathematics in business and personal finance applications. After attending this course, the student should be able to: (1) Set out and solve problems and real cases involving concepts of simple interest, compound interest and annuities; (2) Know the financial vocabulary both in English and in Spanish.

Taking this course will help students acquire the following competences and skills: (1) Improve logical reasoning; (2) Improve analytical and synthesis skills; (3) Improve autonomous learning skills; (3) Improve work-time organization; (4) Improve work-team abilities.

Emphasized learning outcomes from the study of this module are: (1) Be able to solve problems with the concepts of simple and compound interest and annuities; (2) Be able to apply these concepts to real life situations such as home-loans, bonds and capital budgeting decisions.

Subject objectives:

In accordance with the Memorandum of Approved Studies (la memoria de título verificada), the aim of this course is to provide the students with a sound introduction to the uses of mathematics in business and personal finance applications.

The student should be able to:

- Set out and solve problems and real cases involving concepts of simple interest, compound interest and annuities.
- Know the financial vocabulary both in English and in Spanish.

2a. Competences

Core Competence Acquisition:

Students should acquire core competences that develop and improve their:

- Logical reasoning skills.
- Capacity of analysis and synthesis.
- Skills for autonomous learning.
- Skills of task planning and time management.
- Ability to work in teams.
- Sense of responsibility in work and dedication to tasks.
- Public speaking and presentation skills in English.
- Ability to critique others and self-criticism.
- Punctuality and good work ethic.
- Leadership and innovation skills.

Specific Competence Acquisition:

Students should acquire the following specific competences:

- To know the most relevant aspects of financial products, time-value of money, and investment projects.
- To develop learning through case studies.

Student learning outcomes:

From the study of this module, students should:

- Be able to solve problems with the concepts of simple and compound interest and annuities.
- Be able to measure the return of an asset according to various measures.
- Be able to apply these concepts to real life situations such as simple stock valuations, bonds, and home-loans.
- Be able to use Microsoft Excel to solve problems involving the valuations of future cash flows.

Teaching methodologies:

The teaching of this subject combines theoretical lectures and practical classes, which include the tutorial and case work classes. In order to prepare the theoretical classes, students will have to read in advance the mandatory readings.

For the practical classes, students will have to prepare the problem sets at home before class starts. In addition, they will have to do the reports and hand them in on time. Both the detailed schedule of the course and all case material are available on ADI.

3. Subject Outline

This subject is made up of 60 hours of class time, which is equivalent to 60 ECTS. Students are expected to dedicate the same amount of personal time to study, preparation of the drill and problem

sets and case work as the hours of class time. The approximate class time allocation given to the different topics are given below. The personal study time and work in groups and assignments are suggested times. Students should allocate their time according to their personal needs. At the start of the semester, a more detailed outline of what will be taught and when will be provided and students are expected to use this to prepare accordingly before coming to each class.

Topic 1: Introduction to Finance and Time Value of Money

1.1 Introduction to Finance

1.2 Concept of Time Value of Money

1.3 Problem of Finance Jargon

1.4 Self-learning Microsoft Excel and calculator skills

Theoretical classes	2 hours	Practical classes/ exam	0 hours
Personal study required	1 hours	Assignment/ group work	0 hours

Topic 2: Time value of money: Single cash flows

2.1 “interest on principal cash flow” perspective

2.2 “discount on final cash flow” perspective

2.3 “effective interest” perspective

2.4 Use of Excel to value single cash flows

Theoretical classes	4 hours	Practical classes/ exam	4 hours
Personal study required	10 hours	Assignment/ group work	0 hours

Topic 3: Time value of Money: Multiple cash flows

3.1 Valuation of Cash Flows (*a finite number of different* cash flows)

3.2 Valuation of Annuities (*a finite number of level* cash flows)

3.3 Valuation of Perpetuities (*an infinite number of level* cash flows)

3.4 Use of Excel to value a stream of cash flows

Theoretical classes	5 hours	Practical classes/ exam	3 hours
Personal study required	9 hours	Assignment/ group work	0 hours

Topic 4: Measuring asset performance

4.1 Types of asset performance measures

4.2 Rates of Return

4.3 Dollar Returns (dollar value)

4.4 Use of Excel to measure asset performance

Theoretical classes	6 hours	Practical classes/ exam	6 hours
Personal study required	10 hours	Assignment/ group work	1 hours

Topic 5: Applications in Finance

5.1 Stocks

5.2 Bonds

5.3 Mortgages

5.4 Use of Excel to in each of these applications

Theoretical classes	11 hours	Practical classes/ exam	17 hours
Personal study required	20 hours	Assignment/ group work	6 hours

Self-Learning Microsoft Excel

Microsoft Excel is a standard spreadsheet program that is probably the most widely used calculation software in the world of finance, economics, and accounting. You simply cannot do without learning this software! By the time you finish university, you should have reached intermediate to advanced levels of skills in Excel.

However, in this subject, students will not receive specific lessons on Excel apart from a few tips here and there. Like most professionals who self-learned Excel or from learning-by-doing, we will follow

this same pattern of learning: students are expected to begin learning by themselves how to use Microsoft Excel by doing the simple exercises that are set for each of the topics. The textbook by Biehler will be helpful in your self-learning. The Excel functions required to these exercises may be tested in your examinations.

It does not matter which version of Excel use as the basic functions used in this subject are available in versions early as Excel 2003. You may learn to use Excel in Spanish or in English, although it is recommendable that you learn the basic functions in both languages. Since Excel is itself a language, it will be helpful when you need to communicate with others in either English or Spanish.

4. Assessment

As with all subjects, students will receive a final grade out of 10 that consists of 100% of the assessments.

December Announcement (Total: 100%):

Mini-Exam 1:	5% (Topics 1, 2)
Mini-Exam 2:	15% (Topics 1, 2 & 3)
Final exam:	30% (All topics)
Class Preparation & Participation:	35% (Description below)
Case Group Video:	15% (Description below)

IMPORTANT NOTE: To pass this subject, you must first get a minimum of 4 out of 10 in the Final Exam before any other assessments are counted. If you get less than 4 in the Final Exam, then that will be your grade in December and you will have to take the June exam. If you get more than 4 in the Final Exam, your combined grade of the December Exam and other assessments must be at least 5 out of 10 to pass the subject.

Due dates of assessments:

Mini-Exam 2/ Mid-term Exam:	Friday 10 October, 9:00 – 12:00h
Case Group Videos:	(TBA)
Final Exam:	Friday 12 December, 16:00 – 19:00h Aula 15, 16

June Announcement (Total: 100%):

June Exam:	40% (Date TBA)
Other assessments:	60% (From December announcement)

Like the December announcement, to pass the subject you must first get a minimum of 4 out of 10 in the June Exam before Other Assessments will be counted, and the combined grade of June Exam and Other Assessments must be at least 5 out of 10.

Class Preparation and Participation:

Students are required to prepare before each lesson according to the Lesson-By-Lesson (LBL) Plan available in ADI. Preparation includes reading the set readings and doing the assigned drills and problem sets for the lesson. Each lesson, several students will be randomly selected to hand-in the completed assigned drills and problem sets. Completing this work well will increase your class preparation grade, while failure to hand-in or handing-in poorly completed work may mean points deductions.

Students are also required to participate in class by answering question regarding the lesson preparation material, asking interesting and well thought questions, and showing a keen interest in the topics. Good quality questions include ones that show you have thought about the problem but that there is something unclear that you want explained. Bad quality questions are those that show little thought about what has been said (repeatedly) before.

Mini-exams and Examinations:

All mini-exams and final examinations are closed-book and consist of problems that require setting out and solving. Some formulae may be given. The problems will be similar to those that appear in the Problem Sets and past exams (which are all available in ADI).

Grading criteria: Students solutions to problems will be graded according to *numerical accuracy* of solution, *clear step-by-step development* of solution, and *clear diagrams* that reflect fundamental financial thinking.

Missing the Final Exam will mean receiving a final grade of “NO PRESENTADO” (“NO SHOW”). If no written justification is provided and verified by the Director of Studies, then it is equivalent to failure.

Case work in groups:

Students will be required to solve a case in groups. You will be assigned to a group according to alphabetical order. A limited time will be given to solve the case. Your group will have to make a video recorded presentation of their solution, upload it to the internet, and email the link to the professor before the deadline (i.e. YouTube-like videos).

*Grading criteria***:** the video should not last more than 3 minutes, and will be graded on the *accuracy of the solution*, *clear step-by-step presentation*, *clarity of speech and body language*, and *innovativeness*, which includes being original and humorous.

Repeating students:

If you are repeating this subject, you do not have to do the Case Group Video. Your Final Exam will be worth 50%. All other assessments are required, which means preparing each lesson, coming to class, and participating like everyone else.

Class Attendance:

Punctual class attendance is your responsibility. I will begin classes on time. If you are not in the classroom at the start of the hour, please do *not* come and your attendance will not be taken. Regular class attendance is also your responsibility. I will try to make the classes as interesting as possible and make it worth your time to attend. But if you don’t want to come or cannot come for whatever reason, I am not going to hold it against you.

As a way of encouraging class attendance, I will take class attendance, but it will *not count* directly to your assessment. I will only look at your class attendance as a way

of deciding whether your grade should be changed especially if your total final grade is on the borderline. For example, you receive a total of 6.9 in all your assessments, which is “Aprobado”. If you had more than 90% attendance and your class participation grade was also good, there is more chance I will be kind and increase the grade to 7.0, which means a “Notable”. If your grade is on the borderline between pass and fail, and your attendance was poor, then you deserve no kindness.

4a. When work is due

For your class preparation and participation grade, you need to prepare the drills and problem sets before coming to class. There are **two important dates** you need to be aware of:

1. **Group Due Date** is the date you need to complete the corresponding drills and exercises. You may be asked in class on the Group Due Date questions referring to these drills and exercises. Failing to do so adequately may not do any good to your class preparation and participation grade.

2. **Group Hand-in Date** is the date/time you need to hand-in the completed drills and exercises. Failing to hand-in will not do any good to your class preparation and participation grade.

Read the file in this LINK for your (1) Group Due Date and (2) Group Hand-in Dates. Check this document each week as **these dates may change without warning.**

5. Conduct

Code of Conduct

- Punctuality is required at all times. Students must be on time for classes. If you don’t come on time, please do not come at all.

- If you cannot come to class for whatever reason, you may send an email before the start of the class with the reason and I will take note of it. However, your class attendance will still show that you did not attend that day.
- If you need to leave class early (e.g. to take a driving or TOEFL test), please see me before the start of class to tell me that you need to leave early.
- If you need to leave the class temporarily (e.g. to answer an urgent phone call or go to the restroom), just go and come back quietly and with minimum disturbance to your colleagues and to the class.

- Financial and scientific calculators are permitted, but computers, PDAs, mobile phones, and anything with communication capabilities are strictly prohibited into exams or quizzes.
- If you do not bring your calculator to an exam, or are missing other things for the exam, you will have to do without it. You will not be allowed to borrow anything from anyone once the exam has begun.
- There is no talking, socializing, or disruption of class (Classes can be fun, but you are here to learn and so is the student next to you). Specifically, no mobile or smart phones, PDA, etc are allowed to be used during a class.
- Water is allowed, but no food or other drinks are allowed in class.

6. Resources

Required textbook

Find this book at the Library

- T.J. Biehler (2008) “The Mathematics of Money. Math for Business and Personal Finance”, McGraw-Hill Higher Education. (Available in the University library)
- http://www.mhhe.com/biehler1e : You can purchase premium access to the textbook’s website.

Excel Websites

Students are expected to learn excel by themselves. You will asked to do exercises and hand-in work that is done in Excel. There are many website you can learn from and which you should discover by yourself. However here are a few that I find helpful, especially in converting between English and Spanish versions of Excel.

- http://www.piuha.fi/excel-function-name-translation/index.php?page=espanol-english.html
- http://www.planillero.com/convert-formulas.aspx

Recommended bibliography:

(“Recommended” means you do not need to get it, but are further sources you can use for your personal study).

- J.E. Rogers, Haney B. F (2000). “Mathematics of Business” Pearson Prentice Hall
- Pilar Maynar (2008), “La Economía de la Empresa en el espacio de educación superior”, McGraw Hill.
- Samuel A. Broverman, “Mathematics of investment and credit” ACTEX Academic series, 5th edition (2008).
- Jesús Mª Ruiz Amestoy, “Matemática Financiera – Ejercicios resueltos”, Ed. Centro de Formación del Banco de España.
- Eduardo Pérez Gorostidi (2003), “Introducción a la administración de empresas”, Ed. Centro de Estudios Ramón Areces.
- Eduardo Pérez Gorostidi, (2003) “Prácticas de administración de empresas”, Ed. Pirámide.

Other Websites:

http://www.studyfinance.com

http://www.teachmefinance.com/bondvaluation.html

http://ahe.com

http://www.investopedia.com

http://www.beanactuary.org/exams/exams/

7. Office hours, FAQ

Office hours

Office hours: Tues 12:30 - 14:00
16:15 - 17:45

Make an appointment by clicking on this LINK to a Google Sheet.

Feel free to ask any questions concerning the subject after each lesson. If you have important or urgent needs (including justification for missing an exam or assignment deadline), first write an email to Ian Kwan (ikwan@unav.es) or you can call his office on 948 425 600 Ext. 802496.

Frequently Asked Questions & Answers

Student's FAQ (Frequently Asked Questions):

1. Do I really need to get the required textbook?
2. Where can I get the textbook from? Can I borrow it from someone else? Can I borrow it from the library? Which version should I get?
3. What do I do if I cannot go to class? What happens if I have an assignment due on a day I cannot go to class?
4. What happens if I don't hand in an assignment?
5. What should I do if I miss an exam?

Professor's FAG (Frequent Answers Given):

1. It is a required textbook, but I cannot force you to buy it so it depends on you. In the past, we did not use the textbook very much, but starting this academic year (2014-15) we will start to use it much more extensively. Many of the exercises in the Drill Sets will come from the textbook. If you don't have it you can't do the exercises. Many students have trouble with the vocabulary and need definitions. The textbook is good for this. If you are learning a subject for the first time completely in English, then you will probably need a textbook to help you through. We will use 50% of the textbook, especially the first five chapters and parts of the other chapters on applications. You will be expected to read most of it yourself as assigned reading. If you don't read it and you don't understand what the content of the classes, then you can only blame yourself for not doing your own personal study.
2. You can get the textbook any way you like. Unfortunately the University bookstore does not

generally stock books in English, so you will have to purchase it from an online store. The book can be a paper or electronic version; it's up to you. You can get the most recent version (third edition published in 2013) if you wish, although the first edition (from 2008) will be the one that I will use and refer to by page number. There are also old copies that you can buy from other students who took the subject before. You can also borrow the book from the library.

3. Going to class is your own responsibility. I will not take attendance of class. However, if you are not in class, you cannot get class participation grades. If you have assignments due on a day you cannot go to class, you should give them to a friend who should hand it in for you. If you miss the deadline, then that is also your responsibility (see related Q&A).
4. If you don't hand in an assignment, you will get a negative grade. If you could not hand in an assignment because of illness or truly exceptional circumstances, send me an email *stating your full name, group, class number, and reason* for not handing it in the assignment.
5. If you miss an exam with no prior written warning by email, you will automatically get zero with no chance of taking the exam at another time. If you cannot go to an exam because you are sick, you need to submit to the School Office a medical certificate to get authorization for your absence. Once the authorization has been obtained, your zero grade will be reconsidered.

8. Subject details

The following is a more detailed outline of the content of the subject. At the start of a semester, additional information will be provided on the Required Readings, Required Exercises, and a detailed lesson-by-lesson schedule of when these should be done so students can prepare adequately in advance for class.

Topic 1: Introduction to Finance and Time Value of Money

1.1 Introduction to Finance

- Valuation and cash flows
- Role of time and risk
- The problem of finance jargon – simple concepts with complex vocabulary

1.2 Concept of TVM

- TVM = time value of money; simply speaking "Time equals money".
- In general, the longer you invest your money, the higher the expected return.

1.3 Problem of finance jargon

- Finance, like all other subjects and professions, has its own technical vocabulary called jargon.

- Quite often different jargon terms have the same underlying meaning but used in ways that depend on the situation; this is a cause of confusion for students.

- Students need to be aware of this and focus on the financial thinking to avoid the confusion, especially when looking at the same concept in different textbooks.

1.4 Importance of self-learning excel and calculator skills

- In this subject and in most of your university and working careers, you will be expected to have intermediate to advanced skills in Microsoft Excel. However, you will need to learn these skills yourself and be required to produce work using Excel.

- You will not be required to take Excel into exams. You are expected to know how to use your business or scientific calculator.

Topic 2: TVM: Valuation of single cash flows

2.1 TVM: “interest on principal cash flow” perspective

- Simple interest – depends only on time, principal, and interest rate calculated on the principal; there is only one period in time

- Compound interest – depends on time, principal, accumulation of interest on principal, and the interest rate on the principal plus accumulated interest; there are multiple periods in time

- Future value vs. Present value using simple or compound interest

2.2 TVM: “discount on final cash flow” perspective

- Simple discount – depends on time, final cash flow, and discount calculated on the final cash flow; there is only one period in time

- Compound discount – depends on time, final cash flow, accumulation of interest on principal, and the interest rate on the principal plus accumulated interest; there are multiple periods in time

2.3 TVM: “effective interest” perspective

- Effective interest rate

- Effective discount rate – not used often, but to illustrates the parallel between interest and discount

- Future value vs. Present value using effective interest or discount rates

2.4 Use of Excel to value single cash flows

Topic 3: TVM: Valuation of multiple cash flows

3.1 Valuation of Cash Flows (*a finite number of different* cash flows)

- The value of an asset is equal to the sum of the present value of each future cash flow.

- The general valuation formula for future cash flows.

- "Moving" cash flows from present to future and from future to present

3.2 Valuation of Annuities (*a finite number of level* cash flows)

- If future cash flows are the same and are of a finite number, the general valuation formula can be simplified.

3.3 Valuation of Perpetuities (*an infinite number of level* cash flows)

- If the future cash flows are the same and are continue infinitely into the future, the general formula can be simplified even more.

3.4 Use of Excel to value a stream of cash flows

Topic 4: Measuring asset performance

4.1 Types of asset performance measures

- Percentage returns: dividend yield, total returns

- Dollar returns (or dollar value): capital gain, accounting return, economic return

- Introduction to risk and diversification (not part of syllabus à Finance 1)
- Risk adjusted returns / Sharpe ratio (not part of syllabus à Finance 1)

4.2 Rates of Return

- Simple (or arithmetic, absolute, total) rates of return
  - Holding Period Rates
  - Annual Percentage Rates
- Effective (or geometric) rates of return
  - Effective Annual Rates & CAGR
  - Internal Rate of Return
- Effects of inflation on rates of return

4.3 Dollar Returns (dollar value)

- Simple dollar returns (capital gain, accounting dollar value) – no TVM
- Net present value (economic dollar value) – includes TVM

4.4 Use of Excel to measure asset performance

Topic 5: Applications

5.1 Stocks

- Dividend discount model

5.2 Bonds

- Characteristics: par value, coupon amount, coupon rate, coupon frequency, maturity
- Primary and secondary sales of bonds
- Premium vs. discount vs. par bonds
- Coupon paying vs. Zero coupon bonds

- Calculating yield to maturity
- Constructing and interpreting a yield curve
- Bond ratings and investment risk
- Hold to maturity vs. secondary sales and coupon reinvestment risk, etc.
- Clean vs. dirty prices

5.3 Mortgages

- Amortization table
- Floating vs. fixed rate mortgages
- Making extra payments

5.4 Use of Excel to in each of these applications

9. Group C: IDE/GOV

This is GROUP C -- IDE (International Degree in Management) and GOV (Economics, Leadership, and Governance)

Universidad de Navarra

Asignatura: **Principles of Business Administration B (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Introduction

http://www.unav.es/asignatura/pbusinadminBeconom/

Principles of Business Administration B (F. ECONOMICAS)

Professor: Alvaro Banon abanon@unav.es

Professor

•Semester: Second

•Hours, Classroom: To be determined •Credits (ECTS): 6

•Undergraduate degree (s): Degree in Business Administration and Degree in Economics

•Module: Organization and Business Management

•Department: Business

•School: School of Economics and Business Administration

•Type of course (basic, compulsory, optional): Basic

Professor Alvaro Bañon Irujo (abanon@unav.es) Office 2020. Office hours: Thursday 16:00-18:00 Wednesday 10:00-11:00- Always send an email before going

Professor Victoria Rodríguez Chacón, vrodriguez@unav.es: Monday 11:00-13:00 and 17:00-19:00. Always send an email at least one day in advance.

Office hours: Tuesdays 18:00-20:00. It is mandatory to send an email before

•Course language: English

Course Objectives

Specific skills and abilities:

1.-To obtain theoretical and practical knowledge about the firm by focusing on business administration and decision-making, an introduction to market analysis, and a practical approach of fundamentals concerned with strategic planning, organization, and control activities.

2. Ability to analyze the organizational structure of the firm, and some of its coordination-conflict issues related to departments/subsystems.

3. To understand firm's problems from strategic management's point of view.

4. Ability to analyze and develop case studies about companies.

5. To know current economic, social, and technological trends in the design of objectives and strategies of the firm.

General skills and abilities:

1. Development of logical reasoning.

4.-Sense of responsibility and efforts to create

5.- Skills in oral comunication

6. Ability to work in teams.

7.-Critical thinking and self-criticism

8.-Encourage innovation and leadership capabilities

9. Activity planning and time management.

10.-Punctuality and work ethic

11. Capacity to develop autonomous learning.

12.Initiation into basic research techniques and written expression results in profound but short papers

Course contents (web page includes only topic titles)

PART I. BUSINESS ADMINISTRATION CONTEXT

Methodology

Grading

The final grade for the course will be determined by the weighted average obtained from the following notes:

Bibliography

The fundamental reference:

Find this book at the Library

Daft, R. (2010). Management. South-Western, Thomson Learning, First Edition.

Other references particularly useful:

Besanko, D., Dranove, D., Shanley, M. and Shaefer, S. (2003). Economics of Strategy, John Wiley and Sons, Inc., Third Edition.

Buller, P. F. and Schuler, R. S. (2006). Managing Organizations and People. Thomson Learning, Seventh Edition.

Ferrell, O. C., Hirt, G. Ferrell, L. (2006). Business: A Changing World. Fifth Edition, McGraw-Hill.

Kinicki, A., and Williams, B. (2010). Management: A Practical Introduction. Fifth Edition. McGraw-Hill.

Rue, L. and Byars, L. (2010). Management: Skills and Application. Thirdteenth

Project

This is the first step of the project. Each team should deliver the basic information about the company you are going to work with acording the attached form.

The completed form must be loaded on ADI before the deadline. Emails are not allowed.

Any delay in delivery is a penalty of one point in the final grade. Therefore, in anticipation of possible technical problems is advisable to make deliveires in advance.

Read carefully the atached statement of the project.

Each group should delivery a pdf file before the deadline. Please deliver the work in advance to solve any technical problems you may have with the platform before this date.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric. The minimum requirements for each delivery are defined in the statement. However, if the group has worked on the following deliveries, the presented work will be corrected but not graded.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

Universidad de Navarra

WARNING

According to the Cambridge Dictionary: "Plagiarize: to use another person's idea or a part of their work and pretend that it is your own."

Whenever you use other people's ideas or work, these ideas must be properly referenced. If you cut and paste something from the internet or from another source, this should be in quotation marks and properly cited.

All reports will be subject to an anti plagiarism test. If plagiarism is discovered in some work the grading of that work will be ZERO.

Read carefully the statement of the project and prepare your second delivery.

Each group should delivery a pdf file before the deadline. Please deliver the work in advance to solve any technical problems you may have with the platform before this date.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric. The minimum requirements for each delivery are defined in the statement. However, if the group has worked on the following deliveries, the presented work will be corrected but not graded.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

WARNING

According to the Cambridge Dictionary: "Plagiarize: to use another person's idea or a part of their work and pretend that it is your own."

Whenever you use other people's ideas or work, these ideas must be properly referenced. If you cut and paste something from the internet or from another source, this should be in quotation marks and properly cited.

All reports will be subject to an anti plagiarism test. If plagiarism is discovered in some work the grading of that work will be ZERO.

Read carefully the statement of the project and prepare your final delivery.

Each group should delivery the report on a pdf file before the deadline. Please deliver the work in advance to solve any technical problems you may have with the platform before this date.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

WARNING

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All reports will be subject to an anti plagiarism test. If plagiarism is discovered in some work the grading of that work will be ZERO.

Each group should prepare a Power Point presentation, the file must be at most 15 slides. Any member of the group can be chosen to make the presentation. The presentation may not be longer than 8 minutes.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

Process analysis

Each group should delivery the report on a pdf file before the deadline. Please deliver the work in advance to solve any technical problems you may have with the platform before this date.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

WARNING

According to the Cambridge Dictionary: "Plagiarize: to use another person's idea or a part of their work and pretend that it is your own."

Whenever you use other people's ideas or work, these ideas must be properly referenced. If you cut and paste something from the internet or from another source, this should be in quotation marks and properly cited.

All reports will be subject to an anti plagiarism test. If plagiarism is discovered in some work the grading of that work will be ZERO.

Each group should prepare a Power Point presentation, the file must be at most 15 slides. Any member of the group can be chosen to make the presentation. The presentation may not be longer than 8 minutes.

No work will be accepted after the deadline.

GRADING

- The evaluation of the project is going to be based on the attached rubric.
- Any work submitted after the deadline will not be corrected.
- No works sent by email will be accepted.

Process analysis

Universidad de Navarra

Asignatura: **Principles of Macroeconomics A (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Introduction

http://www.unav.es/asignatura/pmacroeconomAeconom/

Principles of Macroeconomics A (F. ECONÓMICAS)

Department: Economics

Degree: IDM

Subject: Principles of Macroeconomics (6 ECTS)

Instructor: Mirko Abbritti (mabbritti@unav.es)

Teaching assistant: Asier Aguilera (asieraguilera@gmail.com)

Competences

The objective of the course is to introduce the basic concepts and tools used in macroeconomic analysis. In this course the student will learn how to use and compare different economic models to analyse and understand current economic issues. The course studies the functioning of the aggregate economy both in the long run and in the short run, and covers many of the issues that dominate the theoretical and political debate: unemployment, inflation, growth, etc.

Competencias:

Desarrollo del razonamiento lógico.

Capacidad de análisis y síntesis de las problemáticas abordadas.

Aplicación del razonamiento matemático y las herramientas cuantitativas a la resolución de problemas asociados a la toma de decisiones en la empresa.

Entender la influencia que el entorno económico tiene en la actividad empresarial

Assessment

The final grade for the course is calculated on the basis of

- Two one-hour partial exams (20% of the grade)
- A two-hours midterm exam (30%)
- A two-hours final exam (50%)
- Bonus point: class participation (10%)

The grade of the retake exam is calculated as follows:

- Class participaton and partial tests: 30%
- Retake-exam: 70%.

Educational activities

The course has both theoretical and practical sessions. In the practical sessions the students will review some of the material and will learn how to solve, with the help of the teaching assistant, theoretical, numerical and practical exercises.

Program

Part 1: Introduction

Part 2: The Data in Macroeconomics

1. Measuring a Nation’s Income

- The Economy’s Income and Expenditure

- How to Measure Gross Domestic product (GDP)

- The Components of GDP

- Real versus Nominal variables

2. Measuring the Cost of Living

- The Consumer Price Index

- Inflation

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Part 3: The Real Economy in the Long-Run

4. Production and Growth

- Economic Growth around the World
- Productivity: Role and Determinants
- How to Foster Economic Growth

5. The Financial System

- Financial Institutions
- Saving and Investment in the National Accounts
- The Basic Tools of Finance

6. Unemployment

- How to Measure Unemployment?
- Why is there Unemployment?
- Alternative Theories

Part 4: Money and Prices in the Long-Run

7. The Monetary System

- What is Money?
- Central Banks, Commercial Banks and Monetary Policy

8. Inflation: Causes and Costs

- What Causes Inflation: the Classical Theory of Inflation
- Costs and Benefits of Inflation

Part 5: The Macroeconomics of Open Economies

9. Open Economy Macroeconomics

- The International Flows of Goods and Capital
- The Prices for International Transactions: Real and Nominal Exchange Rates
- Theories of Exchange Rate Determination

Part 6: Short Run Economic Fluctuations

10. Aggregate Demand and Supply

- Key Facts about Economic Fluctuations
- Explaining Short-Run Economic Fluctuations
- The Aggregate Demand Curve
- The Aggregate Supply Curve
- What Causes Recessions?

11. Influence of Economic Policy on Aggregate Demand

- Monetary Policy
- Fiscal Policy

12. The Short-Run Trade-off between Inflation and Unemployment: The Phillips Curve

- The Phillips Curve

- The Role of Expectations

- The Role of Supply Shocks

- The Cost of Reducing Inflation

Bibliography and Resources

Main Reference:

Mankiw, G. and Taylor, M.P: Economics, Cengage learning, 2nd edition

- Find this book in the library

Complementary References:

Bernanke, B. and Frank, R: Principles of Economics, McGraw-Hill, 3rd edition

Krugman, P. and Wells, R.: Macroeconomics, Worth Publishers, 3rd edition.

Contenidos

Universidad de Navarra

Asignatura: **Principles of Microeconomics A (F. ECONÓMICAS)**
Guía Docente
Curso académico: 2014-15

Introduction

http://www.unav.es/asignatura/negocioseconom/

Principles of Microeconomics A (F. ECONÓMICAS)

"Principles of Microeconomics" is your first contact with economic theory. Therefore, it forms the basis on which your future studies of Microeconomics, and to a lesser extent of Macroeconomics build. In this course you will understand how economists perceive and study the reality that surrounds them. In particular, you will study in a rigorous and mathematical way the decisions taken by individuals and the interaction of individuals and firms in markets.

6 ECTS (European Credit Transfer System)

This is a first year course given in the first semester. It is compulsory for all students of Economics, Management and Governance.

Professor and Office Hours

Responsible Professor: Markus Kinateder (mkinateder@unav.es)

Office: 2550 (2nd floor, tower, Amigos Building)

Office Hours: Tuesday 14:15-15:45, Wednesday 14:15-15:45

Teaching Assistant: Enrique Cristóbal (ecristobal@unav.es)

Office: 4070 (4th floor, tower Amigos Building)

Office Hours: Monday 15:00-16:00 and upon appointment by email

Programme

I. Introduction: ¿How do economists think?

Chapter 1: Economic principles **Ch1**

Chapter 2: Think like an economist **Ch1**

II. Working of Markets: Demand, supply, prices, elasticity, market failure, government intervention, taxes, welfare.

Chapter 3: Demand, supply and prices **Ch2**

Chapter 4: Elasticity **Ch4, pg. 111-120**

Chapter 5: Economic regulation **Appendix 2, pg. 47-52**

Chapter 6: Market and economic welfare **Ch5, pg. 144-147**

Chapter 7: Market Failure **Ch16, 17**

III. Consumer Theory: consumer choice, utility, budget constraint.

Chapter 8: Consumer Theory **Ch3, 4 (Ch7, 8 for deeper understanding and criticism)**

IV. Producer Theory: Production, perfectly competitive firm, monopoly, oligopoly (and basic introduction to Game Theory).

Chapter 9: Cost function **Ch9, 10**

Chapter 10: Perfectly competitive markets **Ch11**

Chapter 11: Monopoly **Ch12**

Chapter 12: Oligopoly **Ch13, pg. 414-433**

Note: The literature references refer to the Frank book.

Competences

Competences of the Degree

- Development of logical reasoning.
- Capacity to analyze and synthesize the proposed problems.

Competences of the Subject

The student should **...**

- Understand and develop fundamental economic problems from a microeconomic point of view.
- Acquire theoretical and applied knowledge of concepts and basic methods in economic analysis.
- General knowledge of how markets work given their structure.
- Basic knowledge about the role of the public sector in an economy.
- Understand a set of basic concepts in Economic Theory.

- Carry out economic analysis in a rigorous way.
- Discuss and develop real world examples.
- Use graphical and mathematical methods in order to analyze economic problems.

Learning Results

- The student passes the final, the mid-term and the mini-exams in which the subjects' contents are evaluated.
- The student is capable of translating written exercises into mathematical problems and solving them by developing basic abstract thinking.

Important Dates

All students:

Partial Exam: 8.10., 10:30-11:30, Aula 12

Final Exam: 1.12., 16:00-17:30, Aula 15

Final Re-Take Exam: 8.6.2015, 10:30-12:00

Management Group (IDM):

Miniexam 1: 27.10.

Miniexam 2: 17.11.

Econ&Governance Group (IDEG):

Miniexam 1: 27.10.

Miniexam 2: 17.11.

Classes:

IDM Monday 18:00-20:00 & Wednesday 16:00-18:00 (Aula 2)

IDEG Monday 16:00-18:00 & Tuesday 16:00-18:00 (Aula 5)

THEORETICAL Classes, Management Group (IDM):

September 3, 8, 10, 17 and 24

October 1, 6, 15, 22 and 29

November 5, 12, 19 and a question session on 26.11.

PRACTICAL Classes, Management Group (IDM):

September 15, 22 and 29

October 20

November 3, 10 and 24

THEORETICAL Classes, Econ&Governance Group (IDEG):

September 2, 8, 9, 16, 23 and 30

October 6, 14, 21 and 28

November 4, 11, 18 and a question session on 25.11.

PRACTICAL Classes, Econ&Governance Group (IDEG):

September 15, 22 and 29

October 20

November 3, 10 and 24

Assessment, Educational Activities, Bibliography

Evaluation (mark out of 10)

- Ordinary examination date:

  Final exam: 50%

  Partial exam: 30%

  Continuous evaluation: 20% mini-exams and *contribution in class**

- Extraordinary examination date:

  Final exam: 60%

  Partial exam: 30%

Continuous evaluation: 10% mini-exams and *contribution in class**

- Two mini-exams, partial and final exam: see “important dates” in ADI.
- **Contribution in class:* the best around 5 students in each group receive a bonus of 0.5 points towards the final mark. A student qualifies for this bonus based on contribution in class and on Problem Set exercises elaborated at home.
- The final exam consists of two parts: the first and longer one contains questions that mainly require mathematical or graphical solutions. In the second part, each student chooses one of two essay questions. There is a maximum number of words for the essay and it is only corrected if the student obtains at least 50% of points in the first part. Otherwise, the student fails the exam with the points obtained in the first part.
- The mid-term and a mini-exam are similar to the final exam but shorter.
- The exams are based on problem sets *two to five* which the student is elaborating by himself during the semester. In ADI, a student can find copies of last year’s final and mid-term exam. However, solutions will not be provided in ADI.
- Problem Sets, the mini and partial exams are solved in practical classes.
- The duration of the final exam is 90 minutes and that of the mid-term exam 60 minutes.

Methodology

Theoretical and practical classes are imparted and are compulsory. The students attend and actively participate in theoretical classes. The students prepare problem sets and solve them in practical classes. This is part of the contribution in class grade they receive. An exhaustive timetable scheduling both types of classes is available in the link "Cronograma - Timetable" and "Important Dates".

Recommended Bibliography

Frank, Robert (2010) *Microeconomics and Behavior*, McGraw Hill, 8th edition.

Find this book in the library

Other Bibliography

Bernanke, Ben and Robert Frank (2008) *Principles of Economics.* McGraw Hill, 4th edition.

Varian, Hal R. (2002) *Intermediate Microeconomics*, W. W. Norton & Company, 6th edition.

Cronograma - Timetable of Educational Activities

		Lecture Hrs.	Chapter	Problem Set Hrs.	Activity	Study Hrs. (theory)		Preparation Hrs. (PS / Exams)	STUDENT
Week 1		4	1; 2	0		3			7
Week 2		4	3; 4	0		3	PS 1	3	10
Week 3		2	4; 5	2	PS 1	3	PS 1; 2	3	10
Week 4		2	5; 6	2	PS 2	3	PS 2	3	10
Week 5	Minie x 1	4	7; 8	0		3	PS 3	3	10
Week 6		2	8	2	PS 2; 3	3	PS 3	5	12
Week 7		0		2	Questions Partial	3	Partial Exam	5	10
	Partial Exam	2							2
Week 8		4	8	0		3	PS 4	3	10
Week 9		2	9	2	PS 4 & Partial	3	PS 4	3	10
Week 10		2	9;10	2	PS 4	3	PS 5	3	10
Week 11	Minie x 2	4	10	0		3	PS 5	3	10
Week 12		2	11; 12	2	PS 5	3	Final exam	3	10

Week 13		0 2	12 & Questions	2	PS 5 & Questions	0	Final exam	8	10
Week 14				0		0	Final exam	15	15
	Final Exam	2							2
150		38		16		36		60	150
		54							

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Lecture Slides, Problem Sets and other documents