



Dual study – an academic perspective (Romania)

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University of Oradea (*Universitatea din Oradea*) is a public university, located in [Oradea](#), in North-Western [Romania](#). It consists of 15 departments. The University employs 2,003 people, out of which 1,237 teaching personnel, and has over 18,000 students (including part-time students and those enrolled in distance learning).



Faculties:

Arts

Constructions and Architecture

Law

Geography, Tourism and Sports

Electrical Engineering and Information Technology

Energy Engineering and Industrial Management

History, International Relations, Political Science and Communication Sciences

Letters

Medicine and Pharmacy

Environmental Protection

Science

Economic Sciences

Social and Humanistic Sciences

Orthodox Theology “Episcop Dr. Vasile Coman”

e.g. **Management and Technological Engineering**

Industrial Engineering

Engineering and Management

Mechatronics and Robotics

Automotive Engineering

Number of students in Engineering in Romania (2011-2012)

Efectivul studenților din domeniul ingineriei în anul școlar 2011- 2012

Domeniu	Nr. studenți
Inginerie Economică	20.157
Ingineria Sistemelor și Calculatoarelor	14.419
Inginerie Civilă (construcții)	11.345
Inginerie Mecanică	9.982
Ingineria Alimentară	9.145
Inginerie Industrială	8.595
Inginerie Electronică	8.452
Ingineria Mediului	8.430
Inginerie Electrică	4.090
Inginerie Energetică	3.370
Inginerie Navală și Navigație	2.835
Inginerie Chimică	2.826
Ingineria Transporturilor	2.281
Ingineria Materialelor	1.942
Total studenți învățământ tehnic	138.462

SURSA: Institutul Național de Statistică

Labour market and graduates in Bihor county region

- The opportunities for students to apply for a job in a technical field are diverse
 - Bihor county
 - has the lowest unemployed rate in Romania
 - provides highly qualified and skilled candidates for the labour market (number of graduates)
 - has a well developed Industrial Park (e.g. companies: COMAU, GMAB, TMS, TOOLTECH, MSIL, ISROM)



A study was conducted in 4 universities from Romania.

- **Respondents:** deans and rectors from technical universities
- **Subject:** University representatives' perceptions on the importance of dual-study for students
 - On-line questionnaire

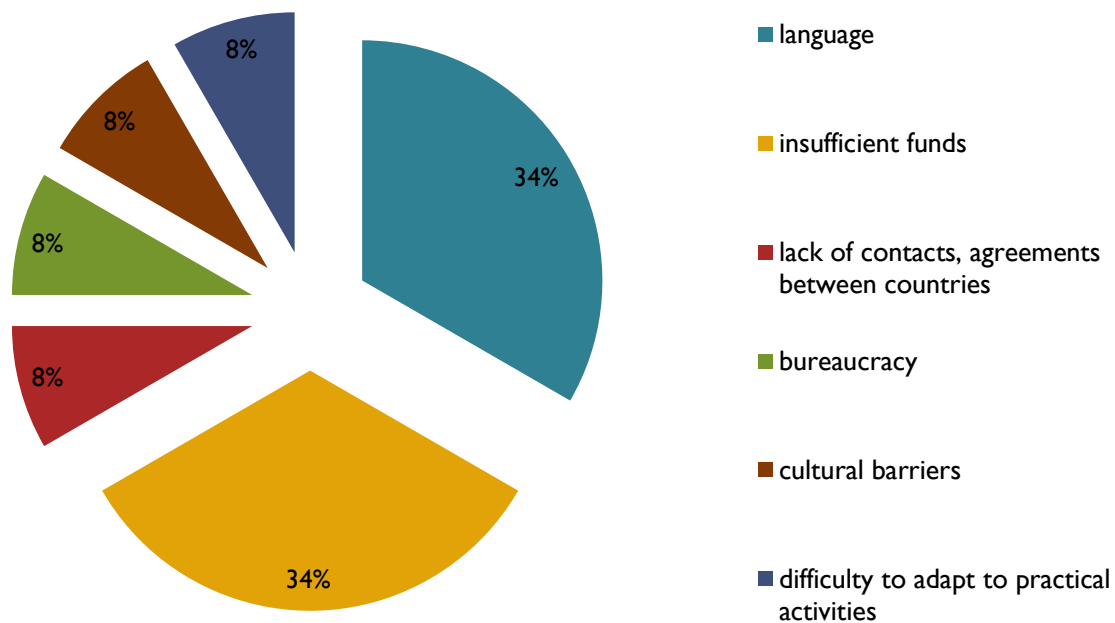
what are the chances for an international student to practice (internship) in a company in Romania?

■ minimal (under 50 %) ■ there is openness for such collaboration



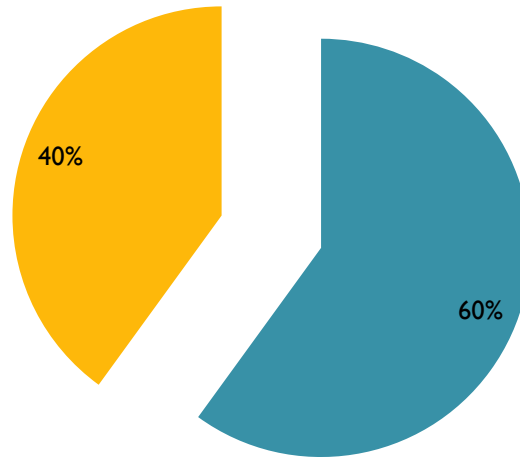
Romanian entrepreneurs are still reluctant to the idea of international internship. There is no precedent (successful models) that encourages such practices. Personnel policies in Eastern Europe and Romania in particular do not focus on taking responsibility in training of potential employees.

Main obstacles faced by students (Romanian and foreign) willing to participate in internship



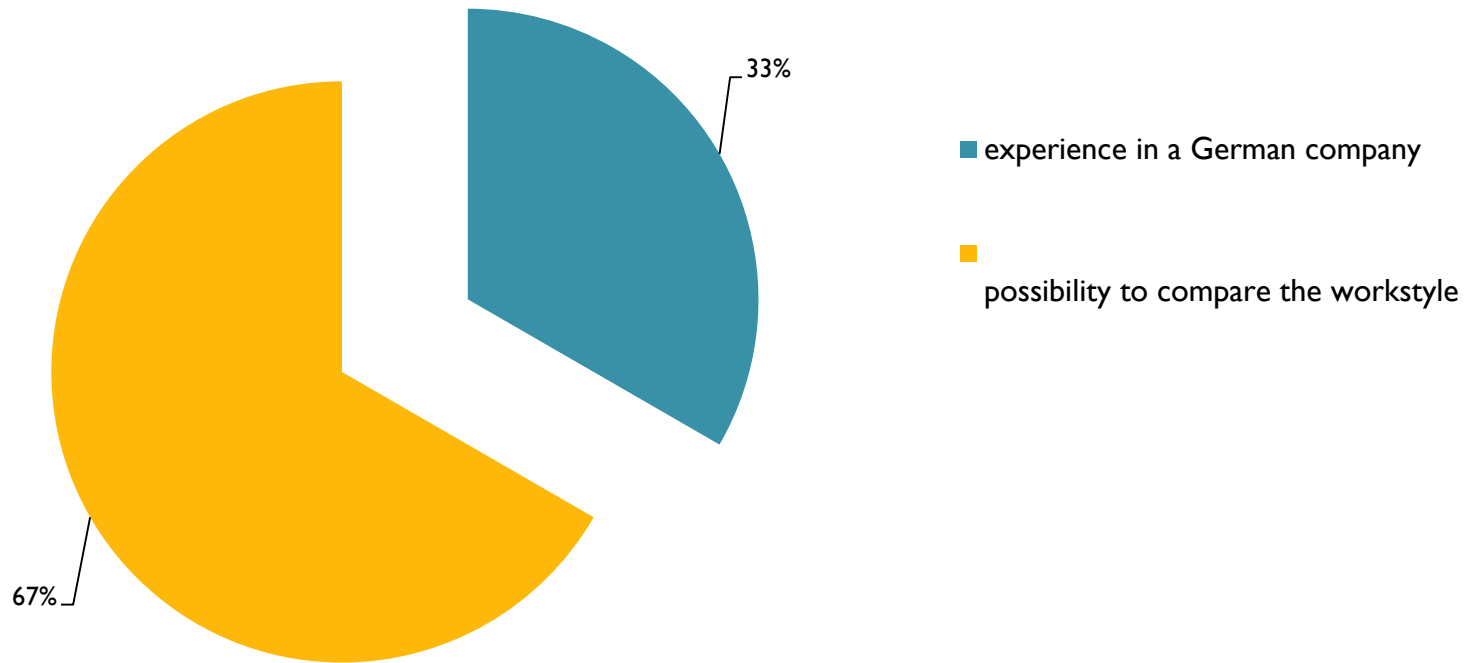
Enrollment in internship programs could increase migration rate of highly skilled labor to countries with developed economies in Western Europe?

■ Yes ■ No



Differences in income between employees in Romania and those in Western Europe are still significant. The main reason for migration is related to the economy.

What motivates a students to enroll in an internship program in a EU country (with advanced economy) (e.g. Germany)



The experience is perceived as an opportunity for specialization and acquisition of new knowledge about new technologies

What are the main types of training (content of study programs/curricula) which might help the student to perform in a company in Germany during the internship program?

Identical to those in Romania.
In addition - German language courses

Compatibility of study program with practical training and endowment.

Special classes and laboratories, homework, project assignments specific to the field of study.

Courses in modern production technologies
IT

Computer assisted conception
Computer assisted engineering
Computer assisted production

Percentage of students who speak a foreign language

U1	U2	U3	U4
English 75%	English 80 - 85 %	English 80 %	English 100%
German 3%	German 2 - 3 %	German 40%	German 5%
French 2%	French- 10 - 15 %	French 40%	French 20%

The percentage of German speakers is increased (40%) in the case of Univ. 3 due to specific circumstances. It is an area with an increased number of native speakers.

How many of your students have applied for an internship program to foreign companies, specifically companies in Germany?

U1	U2	U3	U4
10%	0%	10%	10%

International partners (by Erasmus Cod)

69	Germania	University of Bremen	D BREMEN01
70	Germania	Dresden Academy of Fine Arts	D DRESDEN04
71	Germania	Technische Universität Chemnitz	D CHEMNIT01
72	Germania	Katholische Universität Eichstatt-Ingolstadt	D EICHSTA01
73	Germania	Gottfried Wilhelm Leibniz Universität Hannover	D HANNOVE01
75	Germania	Leipzig University of Applied Sciences	D LEIPZIG10
76	Germania	Johannes Gutenberg Universität Mainz	D MAINZ0
78	Germania	Fachhochschule Nordhausen	D NORDHAU01
79	Germania	Universität Regensburg	D REGENSB01
80	Germania	Eberhard Karls Universität Tübingen	D TUBINGE01
81	Germania	Duale Hochschule Baden-Württemberg-BW Cooperative State University	D VILLING02

Example of good practice

- University of Oradea has signed agreements with several companies in the North-Western region –
e.g COMAU (COMAU is a global leading provider of engineering solutions).
 - accepted foreign students for internship. Acces to the company was facilitated by university through Erasmus program.
 - In the last year: 3 students (2 from Turkey, one from Italy)

Questions...

- Practical benefits of dual study: can we test it?
- How to improve cooperation among international companies and universities: do we have a common need?
- Is language a barrier?
- Is Erasmus program a solution?
- What's the next step?

Potential solutions

- A common platform of communication to record training needs - both for students and companies;
- Encouraging direct partnership between companies and students;
- Starting a pilot project to identify real challenges and good practice models



- Thank you!

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