



Politechnika Łódzka
Instytut Elektroniki

System informatyczny wspomagający międzynarodową wymianę studencką

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Piotr Korbel





EECS (European Education Connectivity Solution), www.eecscard.eu

7. Program Ramowy UE



Cel projektu:

opracowanie prototypu systemu informatycznego

wspomagającego **międzynarodową wymianę studentów** oraz
ułatwiającego dostęp do usług oferowanych na kampusie uczelni



Przedsiębiorstwa

- OPTeam, Polska
- OneCard Solution, Irlandia
- Mecenat, Szwecja



Jednostki badawczo-rozwojowe

- Politechnika Łódzka, Polska
- Waterford Institute of Technology, Irlandia
- University Zagreb, Chorwacja

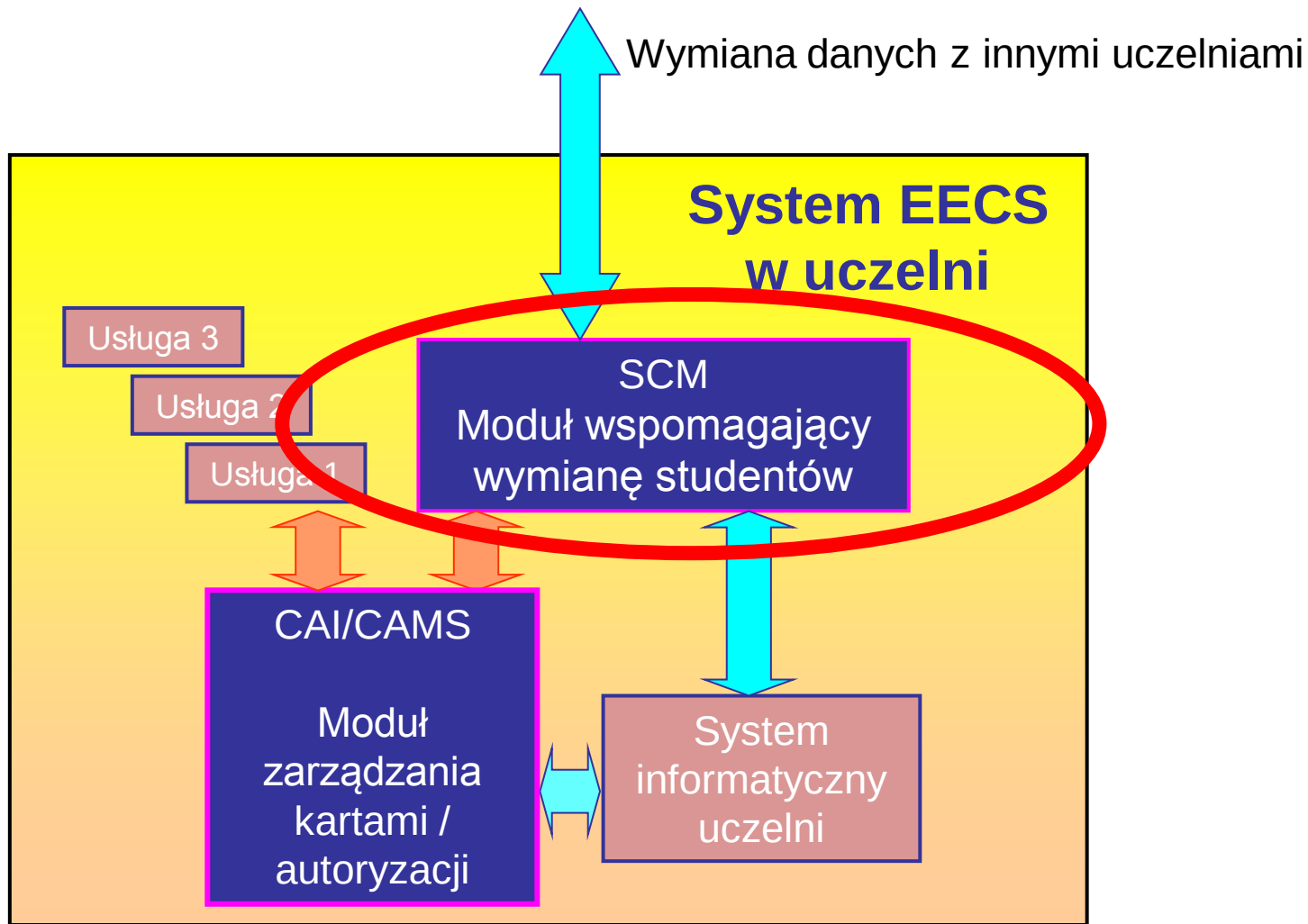


Inne organizacje

- European Campus Card Association

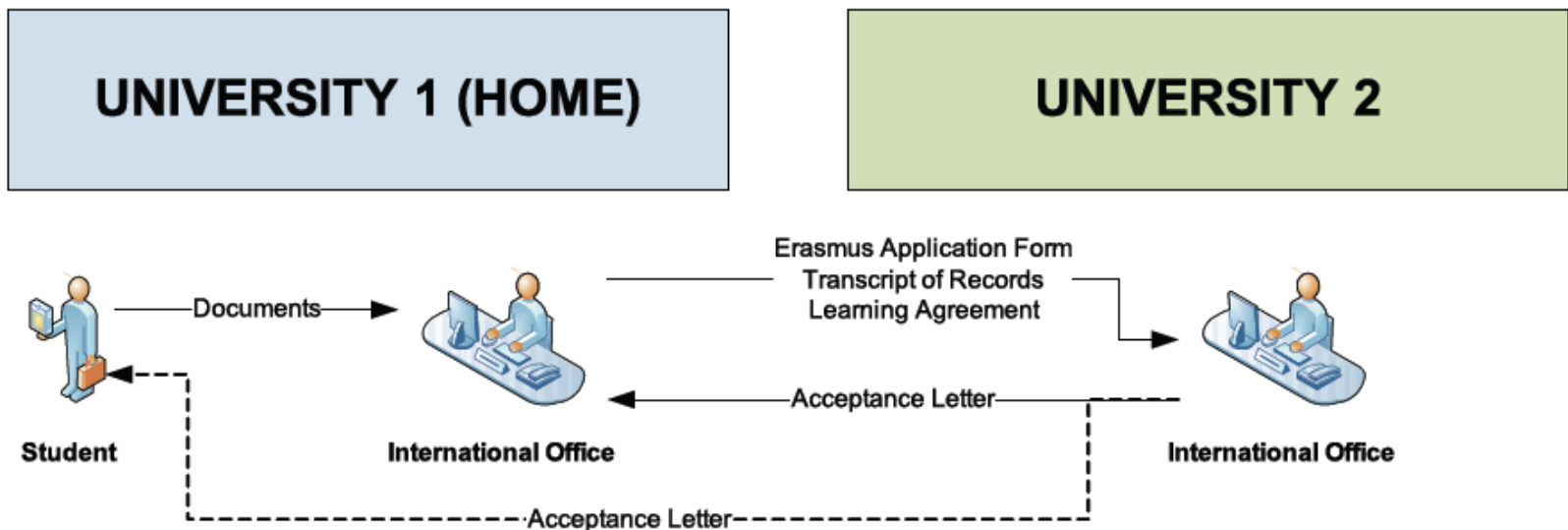


Schemat systemu EECS



SCM – Student Connectivity Module

- element składowy systemu EECS
- obsługuje procedury wymiany studentów według programu Socrates Erasmus





SCM - użytkownicy

- Administratorzy
- Uczelniany koordynator programu Erasmus
- Obsługa dziekanatu
- Koordynatorzy umów dwustronnych
- Studenci



Moduł SCM – procedury (1)

- Autoryzacja i uwierzytelnianie użytkowników
- Zarządzanie umowami dwustronnymi
- Wypełnianie podań o wyjazd, kwalifikacja wstępna
- Kwalifikacja studentów na wyjazdy

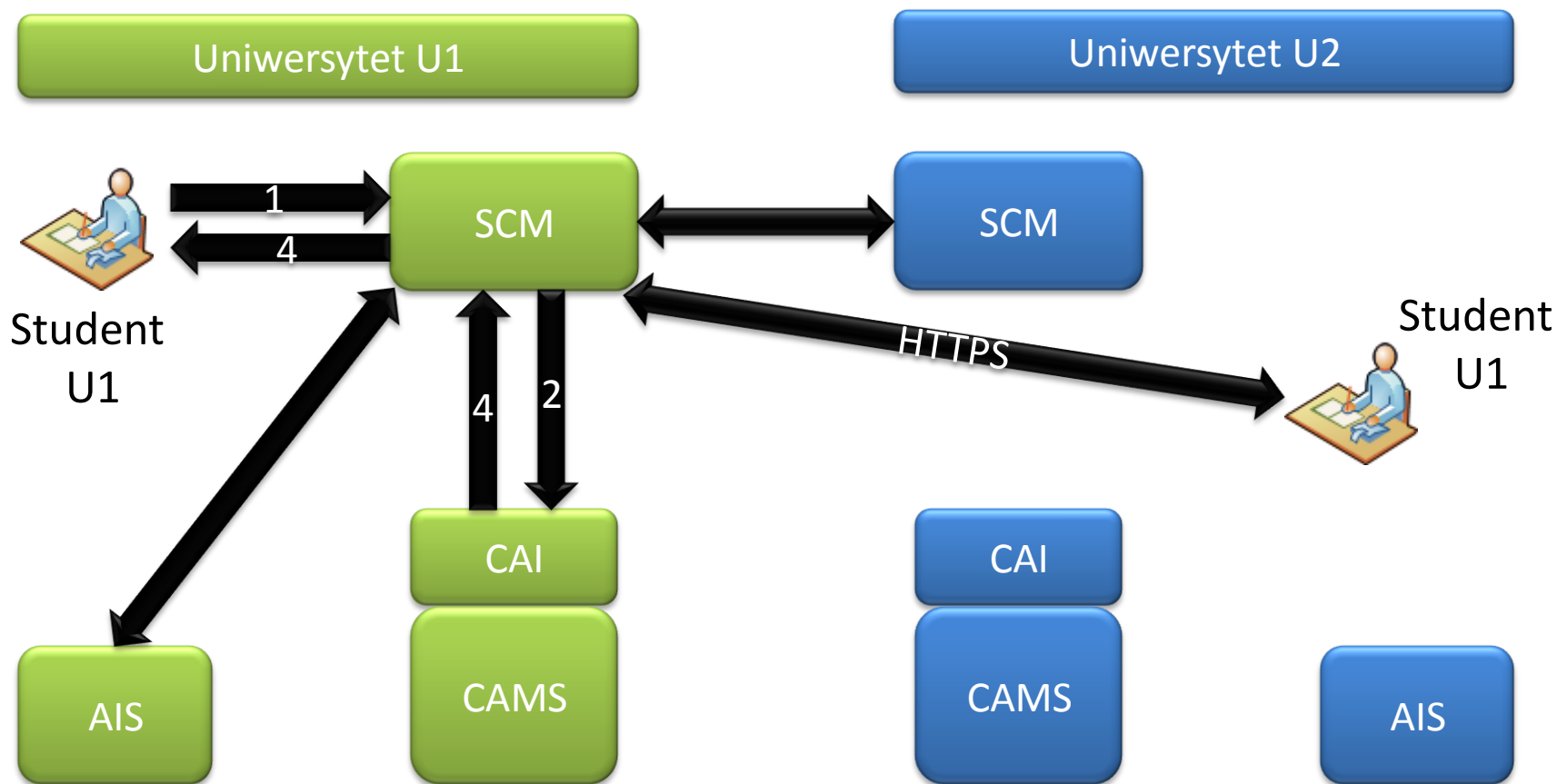


Moduł SCM – procedury (2)

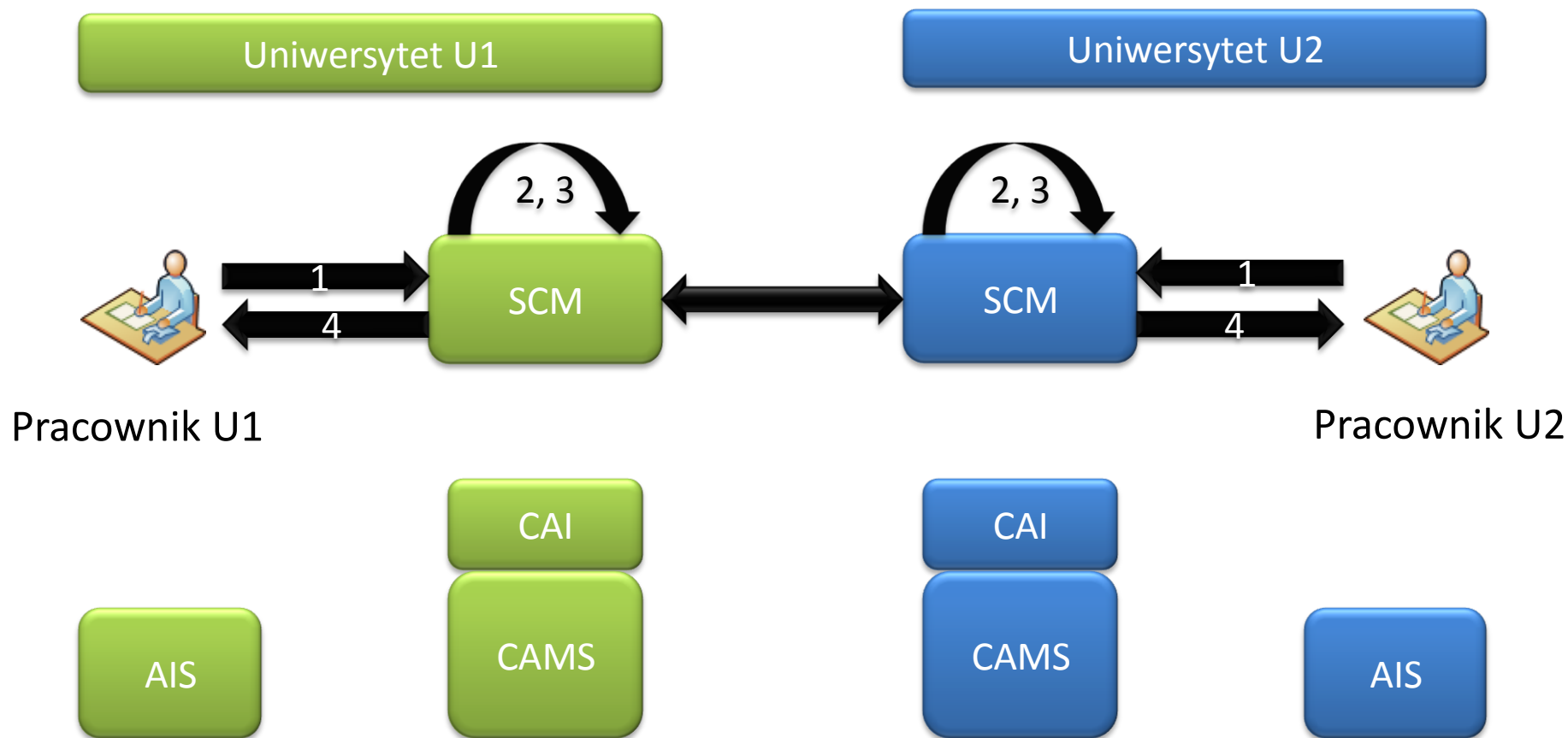
- Wymiana dokumentów między uczelniami partnerskimi
- Uznawanie osiągnięć studenta z okresu studiów w uczelni partnerskiej
- Generowanie protokołów oraz elektronicznych wersji dokumentów

SCM – autoryzacja studentów

Założenie: Student U1 wyjeżdża do U2



SCM – autoryzacja pracowników





PREZENTACJA MODUŁU SCM



Wprowadzanie informacji o pracownikach, przypisywanie ról

Logged As: Joe Mahopa Bilamba - Administrator ([change](#))
Logout Language: English

Add Record

Department: I-12 - Instytut Elektrotechniki Teoretycznej, Metrologii i Materiałoznawstwa

Name:

2nd Name:

Surname:

2nd Surname:

Username:

Password:

Is University Coordinator: Yes ☐

Is Student Supervisor: Yes ☐

Sex: Male ☐

Postal Code:

City:

Street Name:

Street No.:

Flat No.:

Country: AFGHANISTAN

Phone No.1:

Phone No.2:

E-mail:

University Coordinator	Is Student Supervisor	Is Agreement Coordinator
No	No	No
Yes	Yes	Yes
No	No	No
No	No	No

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Zarządzanie słownikami

SCM - Politechnika Łódzka Logged As: Joe Mahopa Bilamba - Administrator ([change](#))

Home Dictionaries ▾ Staff Student Cards Change Password Logout Language: English ▾

Dictionary - Activity

Code	ActivityTarget	Name	Description	Status
SM	Student	student mobility	student mobility - studies and placements	Enabled
SMS	Student	student mobility	student mobility for studies	Enabled
SMP	Student	student mobility	student mobility for placement	Enabled
ST	Staff	staff mobility	staff mobility - teaching	Enabled
STA	Staff	staff mobility	staff mobility - teaching assignments	Enabled
STT	Staff	staff mobility	staff mobility - training	Enabled
OM		organisation of mobility	organisation of mobility	Enabled

[+](#) [-](#) [↺](#) [↻](#) Page 1 of 1 [10](#) [View 1 - 7 of 7](#)

SCM - Politechnika Łódzka Logged As: Joe Mahopa Bilamba - Administrator ([change](#))

Change Password Logout Language: English ▾

Edit Record

Code:

ActivityTarget:

Name:

Description:

Status:

[Submit](#) [Cancel](#)

Fields marked with (*) are required

Name	Description	Status
mobility	student mobility - studies and placements	Enabled
mobility	student mobility for studies	Enabled
mobility	student mobility for placement	Enabled
mobility	staff mobility - teaching	Enabled
mobility	staff mobility - teaching assignments	Enabled
mobility	staff mobility - training	Enabled
mobility	organisation of mobility	Enabled

[+](#) [-](#) [↺](#) [↻](#) Page 1 of 1 [10](#) [View 1 - 7 of 7](#)



Wprowadzanie danych do umów dwustronnych

SCM - Politechnika Łódzka

Logged As: Joe Mahopa Bilamba - Educational Programmes Coordinator (change)

Home Bilateral Agreements Application For Mobility Grants Change Password Logout Language: English

List of Bilateral Agreements

University	Exchange Programme	Agreement Code	Begin Academic Year	End Academic Year	CurrentAgreementCo	Exchange Coordinator	Status	Exchange Direction
+	IRLWATERFO01 - Waterf	Irl	2007/08	2007/08	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
+	IRLWATERFO01 - Waterf	WAT01	2010/11	2011/12	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
+	PL ELBLAG01 - Paristwo	yhg	2009/10	2012/13	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
+	IRLWATERFO01 - Waterf LLP - Erasmus	AGR12/2010	2010/11	2010/11	W2 - Szczepbrzeszyński, W2 - Szczepbrzeszyński		Enabled	Receive & Send
+	B GENT01 - UNIVERSITE LLP - Erasmus	Gent01	2010/11	2012/13	I-16 - Strzelecki Michal	W2 - Mahopa Bilamba Joe	Enabled	Receive & Send

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SCM Add Record (change)

Home

University * ...

Agreement Code *

Begin Date * dd/mm/yyyy

Begin Academic Year * ...

CurrentAgreementCoordinator *

Status * Enabled

Host AC Title

Host AC Given Name

Host AC Surname

Host AC Department Name

Host AC Zip Code

Host AC City

Host AC Street

Host AC Street No

Host AC Room No

Host AC Country AFGHANISTAN

Host AC Phone No

Host AC Fax No

Host AC eMail

Host AC WWW

Exchange Programme * ...

Signed On * dd/mm/yyyy

End Date * dd/mm/yyyy

End Academic Year * ...

Home EPC *

Exchange Direction * ...

Host EPC Title

Host EPC Given Name

Host EPC Surname

Host EPC Department Name

Host EPC ZipCode

Host EPC City

Host EPC Street

Host EPC Street No

Host EPC Room No

Host EPC Country AFGHANISTAN

Host EPC Phone No

Host EPC Fax No

Host EPC eMail

Host EPC WWW

Submit Cancel



Wprowadzanie danych do umów dwustronnych

SCM Development Version

SCM - POLITECHNIKA ŁÓDZKA

Logged As: Joe Mahopa Bilamba - Educational Programmes Coordinator ([change](#))

Home Bilateral Agreements Applications For Mobility Grant Logout Language: English

List of Bilateral Agreements

	University	Exchange Programme	Agreement Code	Begin Academic Year	End Academic Year	CurrentAgreementCoordinator	Home EPC	Status	Exchange Direction
+	IRLWATERFO01 - Waterford Institute		Irl	2007/08	2007/08	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
+	IRLWATERFO01 - Waterford Institute		WAT01	2010/11	2011/12	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
+	PL ELBLAG01 - Państwowa Wyższa Szkoła		yhg	2009/10	2012/13	W2 - Mahopa Bilamba Joe		Enabled	Receive & Send
-	IRLWATERFO01 - Waterford Institute LLP - Erasmus		AGR12/2010	2010/11	2010/11	W2 - Mahopa Bilamba Joe	W2 - Szczepreszyński Jędrzej	Enabled	Receive & Send

Staff Activities

Student Activities

	Activity	Subject Area	Study Level	From	To	No of students	No of months	Date start	Date end
+	staff mobility	Electrical Engineering	2 - MSc student	PL LODZ02 - POLITECHNIKA LC	IRLWATERFO01 - Waterford In 15	60		01/03/2011	31/08/2012
+	staff mobility	Electrical Engineering	2 - MSc student	IRLWATERFO01 - Waterford In	PL LODZ02 - POLITECHNIKA LC 15	60		01/03/2011	31/08/2012

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+	B GENT01 - UNIVERSITEIT GENT	LLP - Erasmus	Gent01	2010/11	2012/13	W2 - Mahopa Bilamba Joe	W2 - Mahopa Bilamba Joe	Enabled	Receive & Send
+	N BERGEN 01 - UNIVERSITETET I BERG	LLP - Erasmus	Bergen_PL	2010/11	2010/11	I-12 - Kuczyński Andrzej	W2 - Mahopa Bilamba Joe	Enabled	Receive & Send

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„Application for exchange”

Student wypełnia podanie o wyjazd

SCM - Politechnika Łódzka Logged As: - Student
Home Logout Language: English

Applications For Mobility Grant
[Fill New Application For Mobility Grant](#)

Exchange Programme Receiving University Begin End

SCM - Politechnika Łódzka Logged As: - Student
Home Logout Language: English

Application For Mobility Grant

Student's personal data:

Surname: Baranowski
2nd Name: Cezary Piotr
Nationality: Polska
Student Id: DA152093
Registered for the academic year: ... Choose ... *
Registered for study period: ... Choose ... *
Student Registration: ... Choose ... *

Exchange programme data:

Exchange programme: ... Choose ... *
Receiving university: ... Choose Exchange Programme ... *
Bilateral agreement code: ... Choose Receiving University ... *
Subject area: ... Choose ... *
Previous participation?: ... Choose ... *
Begin academic year: ... Choose ... *
Begin period of study: ... Choose ... *
End academic year: ... Choose ... *
End period of study: ... Choose ... *
Stay duration (in months): *

Back to list Save Submit



„Transcript of Records”

Student wypełnia wykaz zaliczeń

SCM - Politechnika Łódzka

Home Logout Language: English

Logged As: Student

Transcript of Records

Available Courses

	Course code	Course name	ECTS credits	Contact hours
1	01 0172	Analiza matematyczna 1	6	40
2	01 0196	Wstęp do analizy matematycznej	2	18
3	01 0197	Algebra liniowa	4	18
4	02 0371	Fizyka 1	3	18
5	02 0372	Fizyka 1	2	10
6	03 0343	Podstawy Informatyki	5	40
7	09 0200	Wprowadzenie do współpracy	2	16
8	21 0201	Obwody elektryczne	1	9
9	93 0207	Metodyka studiowania i autodiagnozy	1	12
10	95 0214	Prawo inżynierskie i ochrona	1	9
11	01 0199	Analiza matematyczna 2	6	36
12	03 0209	Technologia Informatyczna	2	18
13	03 0211	Podstawy programowania	4	27
14	05 0203	Wstęp do elektroniki	3	18
15	12 0205	Laboratorium inżynierii materiałowej	2	9
16	13 0208	Metrologia elektryczna i elektroniki	2	18
17	21 0202	Obwody elektryczne	3	18
18	91 2535	Język obcy m. 2, 6	1	20
19	93 0212	Zarządzanie zasobami ludzkimi	2	18
20	94 0213	Ergonomia i zasady bezpieczeństwa	1	9
21	04 0538	Metody numeryczne	3	27
22	09 0534	Podstawy rynku technicznego	4	27
23	12 3019	Fizyka i inżynieria materiałowa	2	30
24	13 0535	Metrologia elektryczna i elektroniki	3	18
25	14 0536	Technologia informatyczna	5	40

Selected Courses

	Course code	Course name	ECTS credits	Contact hours	Grade	ECTS grade
1	01 0112	Wstęp do analizy matematycznej	2	30	3,5	D
2	01 0113	Algebra liniowa	4	30	3,5	D
3	01 0114	Analiza matematyczna	6	60	3,5	D
4	02 0116	Fizyka 1	5	45	3,0	E
5	03 0053	Technologia informatyczna	2	30	3,0	E
6	03 0123	Podstawy informatyki	5	60	4,5	B
7	09 0049	Wprowadzenie do współpracy	2	30	3,5	D
8	21 0119	Obwody elektryczne	1	15	3,0	E
9	93 0052	Metodyka studiowania	1	30	5,0	A
10	95 0058	Prawo inżynierskie	1	15	4,5	B
11	01 0115	Analiza matematyczna	6	60	4,0	C
12	03 0122	Podstawy programowania	4	45	3,5	D
13	05 0118	Wstęp do elektroniki	3	30	5,0	A
14	07 0092	Mechanika i wytrzymałość	4	45	3,0	E
15	11 0091	Techniki tworzenia	2	30	4,5	B
16	12 0117	Laboratorium inżynierii materiałowej	2	15	3,5	D
17	13 0121	Metrologia elektryczna i elektroniki	2	30	4,0	C
18	21 0120	Obwody elektryczne	3	30	3,5	D
19	91 2528	Język obcy m. 2, 1	1	30	3,5	D
20	92 2542	Wychowanie fizyczne	0	30	2	
21	93 0278	Podstawy psychologii	2	30	3,0	E
22	94 0057	Ergonomia i zasady bezpieczeństwa	1	15	3,5	D
23	02 0482	Fizyka współczesna	2	20	3,0	E
24	04 0480	Metody numeryczne	3	30	3,0	E
25	13 0489	Technologia informatyczna	5	60	3,0	E

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„Learning Agreement”

Student wypełnia porozumienie o programie zajęć

SCM - Politechnika Łódzka

Home Logout Language: English

Logged As: - Student

Learning Agreement

Available Courses

	Course Code	Course Name	ECTS Credits	Contact Hours
1	Test	Test	1	2
2	123	Astrology	3	15

Selected Courses

	Course Code	Course Name	ECTS Credits	Contact Hours
1	123	Astrology	3	15
2	E234PL98	Testing IT Systems	3	30
3	E44%PL88	Software Engineering	3	45
4	EE21PL94	Java Programming	6	75

Back to list Save Submit

Logged As: - Student

Logout Language: English

Add Record

Course Code	EE21PL94	ECTS Credits	Contact Hours
Course Name	Java Programming	15	30
ECTS Credits		45	
Contact Hours			

Submit Cancel



Przetwarzanie podania

- Pracownicy uczelni wprowadzają średnią ocenę studiów i wyniki egzaminów z języków obcych.
- Koordynator umowy opiniuje podanie.
- Koordynator uczelni zatwierdza podanie.



Wyniki egzaminów z języka obcego

SCM - POLITECHNIKA ŁÓDZKA Logged As: Joe Mahopa Bilamba - Educational Programmes Coordinator (change)

Home Bilateral Agreements Applications For Mobility Grant Logout Language: English

Applications for Mobility Grant -

Student Id	Student Name	Exchange program	Receiving universi	Registered for acad	Registered for stud	Student Status	Status
DA155483	Piotr Krzysztof Pofit	LLP - Erasmus	B GENT01 - UNIVERSI	2010/11	Semester 1	absolwent	Waiting for Agreeer
DA155483	Piotr Krzysztof Pofit	LLP - Erasmus	IRLWATERFOO1 - Wat	2010/11	Semester 1		Accepted
DA159935	Krzysztof Michał Woc	LLP - Erasmus	IRLWATERFOO1 - Wat	2007/08	Trimester 1	dyplomant	Submitted
DA152093	Cezary Piotr Baranow	LLP - Erasmus	IRLWATERFOO1 - Wat	2010/11	Semester 1	rejestracja pełna	Accepted
DA155483	Piotr Krzysztof Pofit	LLP - Erasmus	IRLWATERFOO1 - Wat	2013/14	Semester 2	urlop zdrowotny	Accepted
DA155483	Piotr Krzysztof Pofit	LLP - Erasmus	B GENT01 - UNIVERSI	2010/11	Semester 1	rejestracja pełna	Accepted
DA155483	Piotr Krzysztof Pofit	LLP - Erasmus	IRLWATERFOO1 - Wat	2010/11	Trimester 1		Submitted
DA159935	Krzysztof Michał Woc	LLP - Erasmus	IRLWATERFOO1 - Wat	2008/09	Trimester 3		Submitted

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Selected

Detailed Data Application For Exchange Transcript Of Records Learning Agreement Learning Agreement Changes Host Transcript Of Records Grant Assignment

Student Id DA155483
Registered for academic year 2010/11
Exchange programme LLP - Erasmus
Student Status absolwent
Mother Tongue Polish
Language Irish
Begin Academic Year 2010/11
End Academic Year 2012/13
Receiving university B GENT01 - UNIVERSITEIT GENT
Interview score
Agreement Coordinator Decision
Agreement Coordinator Comment
Educational Programmes Coordinator Decision
Educational Programmes Coordinator Comment

Student Name Piotr Krzysztof Pofit
Registered for study period Semester 1
Previous participation ? Yes
Average mark of study 4,5
Subject area Mathematics
Language level A1
Begin Period Of Study Semester 2
End Period Of Study Trimester 2
Stay duration (in months) 12
Total score
Agreement Coordinator
Exchange Coordinator

Fill Language Correct

Logged As: Joe Mahopa Bilamba - Educational Programmes Coordinator (change)

Logout Language: English

Registered for acad	Registered for stud	Student Status	Status
ERSI 2010/11	Semester 1	absolwent	Waiting for Agreeer
Wat 2010/11	Semester 1		Accepted
Wat 2007/08	Trimester 1	dyplomant	Submitted
Wat 2010/11	Semester 1	rejestracja pełna	Accepted
Wat 2013/14	Semester 2	urlop zdrowotny	Accepted
ERSI 2010/11	Semester 1	rejestracja pełna	Accepted
Wat 2010/11	Trimester 1		Submitted
Wat 2008/09	Trimester 3		Submitted

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Learning Agreement Learning Agreement Changes Host Transcript Of Records Grant Assignment

Student Name Piotr Krzysztof Pofit
Registered for study period Semester 1
Previous participation ? Yes
Average mark of study 4,5
Subject area Mathematics
Language level A1
Begin Period Of Study Semester 2
End Period Of Study Trimester 2
Stay duration (in months) 12
Total score
Agreement Coordinator
Exchange Coordinator

Cancel Submit

Średnia ocena z toku studiów

Logged As: Joe Mahopa Bilamba - Dean's Officer @ W2 - Wydział Elektrotechniki, Elektroniki, Informatyki i Automatyki (change)

Logout Language: English

Edit Record

Registered for academic year: 2010/11
 Registered for study period: Semester 1
 Student Status: rejestracja pełna
 Average mark of study:

Fields marked with (*) are required

Submit Cancel

University	Registered for academic year	Registered for study period	Student Status		
EIT GENT	2010/11	Semester 1	absolwent		
Waterford Institute	2007/08	Trimester 1	dyplomant		
Waterford Institute	2010/11	Semester 1	rejestracja pełna		
LLP - Erasmus	DA155483	IRLWATERFO01 - Waterford Institute	2010/11	Trimester 1	
LLP - Erasmus	DA159935	IRLWATERFO01 - Waterford Institute	2008/09	Trimester 3	

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Opinia koordynatora

Logged As: Joe Mahopa Bilamba - Bilateral Agreement Coordinator - AGR12/2010 @ POLITECHNIKA ŁÓDZKA (change)

Logout Language: English

Edit Record

Interview score: 5
 Total score: 12.03
 Agreement Coordinator Decision: Accepted
 Agreement Coordinator Comment: Strongly recommended

Fields marked with (*) are required

Submit Cancel

University	Registered for academic year	Registered for study period	Student Status		
Waterford Institute	2010/11	Semester 1			
Waterford Institute	2007/08	Trimester 1	dyplomant		
Waterford Institute	2010/11	Semester 1	rejestracja pełna		
LLP - Erasmus	DA155483	IRLWATERFO01 - Waterford Institute	2013/14	Semester 2	urlop zdrowotny
LLP - Erasmus	DA155483	IRLWATERFO01 - Waterford Institute	2010/11	Trimester 1	
LLP - Erasmus	DA159935	IRLWATERFO01 - Waterford Institute	2008/09	Trimester 3	

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Przetwarzanie podania

Decyzja

SCM - Politechnika Łódzka

Home Bilateral Agreements Application For Mobility Grants

Applications for Mobility Grants - W2 - Wydział Elektrotechniki, Elektroniki, Informatyki i Automatyki

Student Id	Exchange programme	Receiving university	Registered for academic year	Registered for study period	Student Status	Status
DA155483	LLP - Erasmus	B - GENT01 - UNIVERSITEIT GENT	2010/11	Semester 1	absolwent	Waiting for Agreement Coordina
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Semester 1		Accepted
DA159935	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2007/08	Trimester 1	dyplomant	Submitted
DA152093	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Semester 1	rejestracja pełna	Waiting for Exchange Program
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2013/14	Semester 2	urlop zdrowotny	Accepted
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Trimester 1		Submitted
DA159935	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2008/09	Trimester 3		Submitted

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Selected

Detailed Data

Student Id: DA152093
Exchange programme: LLP - Erasmus
Registered for academic year: 2010/11
Student Status: rejestracja pełna
Mother Tongue: Swedish
Language: English
Begin Academic Year: 2011/12
End Academic Year: 2011/12
Stay duration (in months): 9
Interview score: 5
Agreement Coordinator Decision: Accepted
Agreement Coordinator Comment: Strongly recommended
Educational Programmes Coordinator Decision: Accepted
Educational Programmes Coordinator Comment: EPC Comment

Exchange Coordinator

Cancel Submit

SCM - Politechnika Łódzka

Logged As: Joe Mahopa Bilamba - Educational Programmes Coordinator (change)

Home Bilateral Agreements Application For Mobility Grants Logout Language: English

Applications for Mobility Grants - W2 - Wydział Elektrotechniki, Elektroniki, Informatyki i Automatyki

Student Id	Exchange programme	Receiving university	Registered for academic year	Registered for study period	Student Status	Status
DA155483	LLP - Erasmus	B - GENT01 - UNIVERSITEIT GENT	2010/11	Semester 1	absolwent	Waiting for Agreement Coordina
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Semester 1		Accepted
DA159935	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2007/08	Trimester 1	dyplomant	Submitted
DA152093	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Semester 1	rejestracja pełna	Waiting for Exchange Program
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2013/14	Semester 2	urlop zdrowotny	Accepted
DA155483	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2010/11	Trimester 1		Submitted
DA159935	LLP - Erasmus	IRLWATERFO01 - Waterford Inst	2008/09	Trimester 3		Submitted

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Selected

Detailed Data

Student Id: DA152093
Exchange programme: LLP - Erasmus
Registered for academic year: 2010/11
Student Status: rejestracja pełna
Mother Tongue: Swedish
Language: English
Begin Academic Year: 2011/12
End Academic Year: 2011/12
Stay duration (in months): 9
Interview score: 5
Agreement Coordinator Decision: Accepted
Agreement Coordinator Comment: Strongly recommended
Educational Programmes Coordinator Decision: Accepted
Educational Programmes Coordinator Comment: EPC Comment

Receiving university: IRLWATERFO01 - Waterford Institute of Technology
Previous participation?: No
Registered for study period: Semester 1
Average mark of study: 4.03
Subject area: Civil Engineering
Language level: A1
Begin Period Of Study: Semester 1
End Period Of Study: Semester 2
Status: Waiting for Exchange Programme Coordinator Decision
Total score: W2 - Mahopa Bilamba Joe
Agreement Coordinator: W2 - Mahopa Bilamba Joe
Exchange Coordinator: W2 - Mahopa Bilamba Joe

Fill Language Fill Decision Correct



Podsumowanie

- Projekt EECS znajduje się w fazie końcowej
- Działanie modułu SCM zostało zweryfikowane
- System EECS jest przygotowywany do komercjalizacji