



Erasmus+

# Learning Agreement

## Student Mobility for Studies

Higher Education:  
Learning Agreement form  
Student's name  
Academic Year 20.../20...

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	VIOLA	PIERLUIGI	08/02/1995	ITALY	M	FIRST CYCLE – BACHELOR DEGREE	Mechanical engineering
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	INGEGNERIA MECCANICA	IBARIO5	VIA AMENDOLA 126/B – 70126 BARI	ITA	Prof. Ing. Pietro De Palma pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UPC	EEBE	EBARCELONA03	Campus Diagonal Besòs, Edifici A (EEBE). C. Eduard Maristany, 10-14 08019 Barcelona	Spain	Gemma Fargas International Coordinator mobilitat.eebe@upc.edu ph.+34.934137407/934137351	

### Before the mobility

Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] 09/18 to [month/year] 02/19				
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester (e.g. autumn/spring; term)	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
	820006	Informàtica	AUTUMN	6
	820423	Elasticitat	AUTUMN	6
	820428	Estructures i Construccions Industrials	AUTUMN	6
	820011	Ciència i Tecnologia de Materials	AUTUMN	6
	295504	FENÒMENS DEL TRANSPORT	AUTUMN	6
				<b>Total: 30</b>
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]				
The level of language competence <sup>9</sup> in _____ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>				

Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester (e.g. autumn/spring; term)	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2012	FONDAMENTI DI INFORMATICA	AUTUMN	6
	2013	SCIENZA DELLE COSTRUZIONI	AUTUMN	12
	2466	TECNOLOGIA GENERALE DEI MATERIALI	AUTUMN	6
		ESAME A SCELTA	AUTUMN	6
			<b>Total: 30</b>	
Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]				

Commitment					
By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Beneficiary Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits or equivalent units gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.					
Commitment	Name	Email	Position	Date	Signature
Student	PIERLUIGI VIOLA	Gigiviola02@gmail.com	Student	29/06/2018	
Responsible person <sup>10</sup> at the Sending Institution	Prof. Ing. Pietro De Palma	pietro.depalma@poliba.it	Erasmus departmental coordinator	29/06/2018	
Responsible person at the Receiving Institution <sup>11</sup>					



Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
		ANTONACI	ANDREA	13/05/1997	ITALY	M	1 <sup>st</sup> Cycle
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Mechanical Engineering - DMMM	IBARIO5	Via Amendola, 126/B 70126 BARI	ITA	PIETRO DE PALMA pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA	Mechanical engineering	E LASPAL01	C/ Juan de Quesada, 30 35001 Las Palmas de Gran Canaria	SPA		

## Before the mobility

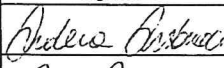

Study Programme at the Receiving Institution				
Planned period of the mobility: from SEPTEMBER/2018 to FEBRUARY/2019				
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
	44524	DISEÑO ASISTIDO EN INGENIERIA MECANICA	AUTUMN	4,5
	44525	FUNDAMENTOS DE DISEÑO DE MAQUINAS	AUTUMN	4,5
	44537	ANTEPROYECTO EN INGENIERIA MECANICA	AUTUMN	3
	42742	GESTION DE LA CALIDAD, DEL MEDIO AMBIENTE Y DE LA PREVENCIÓN DE RIESGOS LABORALES	AUTUMN	6
	44536	INSTALACIONES INDUSTRIALES PARA INGENIERIA MECANICA	AUTUMN	6
	42724	ORGANIZACION DE LA PRODUCCION	AUTUMN	6
				Total: 30

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [www.eiic.ulpgc.es/index.php/estudios/2015-09-03-13-04-41/grado-en-ingenieria-mecanica#plan-de-estudios](http://www.eiic.ulpgc.es/index.php/estudios/2015-09-03-13-04-41/grado-en-ingenieria-mecanica#plan-de-estudios)

The level of language competence<sup>9</sup> in SPANISH [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2076	MECCANICA DEI MATERIALI E PROGETTAZIONE MECCANICA I		12
	2083	IMPIANTI MECCANICI I		6
		ESAME A SCELTA		6
		ESAME A SCELTA		6
				Total: 30

Provisions applying if the student does not complete successfully some educational components: [http://www.poliba.it/it/didattica/corsi-di-laurea?course\\_id=10026&year\\_rule=2018&specialisation\\_id=10000&idCorsoCode=LT31/2015](http://www.poliba.it/it/didattica/corsi-di-laurea?course_id=10026&year_rule=2018&specialisation_id=10000&idCorsoCode=LT31/2015)

Commitment					
By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for students (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational component and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.					
Commitment	Name	Email	Position	Date	Signature
Student	ANDREA ANTONACI	a.antonaci2@studenti.poliba.it	Student	16.07.2018	
Responsible person <sup>10</sup> at the Sending Institution	PIETRO DE PALMA	pietro.depalma@poliba.it	Erasmus Departmental Coordinator	16.07.2018	
Responsible person at the Receiving Institution <sup>11</sup>					



Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	Nitti	Roberto	01/09/1995	Italian	M	2 <sup>nd</sup> cycle	0715
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Facoltà di ingegneria, dipartimento meccanica e management	IBARIO5	Via Amendola,126/B 70126 Bari	ITA	Erasmus Departmental Coordinator: Pietro De Palma pietro.depalma@poliba.it +39 080 596 3226	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	ENSAM	MECHANICAL ENGINEERING	F PARIS62	151 Boulevard de l'Hopital,75013 Paris France	FRA	Ricardo Noguera Ricardo.noguera@ensam.eu 33-(0)1.44.24.37	

### Before the mobility

Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] 09/2018 to [month/year] 09/2019				
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
	5AE01	Fondements de l'Efficacité Energétique	autumn	6
	5AE13	Management stratégique et langue étrangère	autumn	6
	5AE06	Systèmes réactifs, turbulence et transferts, applications à la propulsion terrestre et aéronautique	autumn	6
	5AE11	Systèmes Energétiques Efficacients	autumn	6
	5AE12	Optimisation des Performances des Turbomachines	autumn	6
	5AE50	Stage recherche d'un semestre (1)	spring	30
				<b>Total: 60</b>
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: <a href="http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373">http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373</a>				
The level of language competence <sup>9</sup> in French [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>				

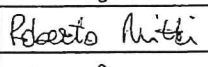

### Recognition at the Sending Institution

Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2320	IMPIANTI MECCANICI II	autumn	6
	2318	DINAMICA E CONTROLLO DELLE MACCHINE	autumn	6
	2947	TECNOLOGIE PER LE ENERGIE RINNOVABILI E LA PRODUZIONE DISTRIBUITA DELL'ENERGIA	spring	12
	2023	TIROCINIO	spring	6
	2948	MOTORI A COMBUSTIONE INTERNA E PROPULSORI IBRIDI	autumn	6
		ESAMI A SCELTA	spring	6
		ESAMI A SCELTA	spring	6
	2024	PROVA FINALE	spring	12
				<b>Total:60</b>

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

### Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student	Roberto Nitti	roberto.nitti.95@gmail.com r.nitti5@studenti.poliba.it	Student		
Responsible person <sup>10</sup> at the Sending Institution	Pietro De Palma	pietro.depalma@poliba.it	Erasmus Departmental Coordinator		
Responsible person at the Receiving Institution <sup>11</sup>	Ricardo Noguera	Ricardo.noguera@ensam.eu			



Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	De Lucia	Giuseppe	25/09/1995	Italian	M	2 <sup>nd</sup> Cycle	0715
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Facoltà di ingegneria, dipartimento meccanica e management	IBARIO5	Via Amendola,126/B 70126 Bari	ITA	Erasmus Departmental Coordinator: Pietro De Palma pietro.depalma@poliba.it +39 080 596 3225	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	ENSAM	MECHANICAL ENGINEERING	F PARIS62	151 Boulevard de l'Hopital,75013 Paris France	FRA	Ricardo Noguera Ricardo.noguera@ensam.eu 33-(0)1.44.24.37	

## Before the mobility

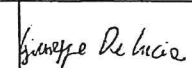
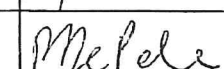
Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] 09/2018 to [month/year] 09/2019				
Table A Before the mobility	Component <sup>5</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
	SAE01	Fondements de l'Efficacité Energétique	autumn	6
	SAE13	Management stratégique et langue étrangère	autumn	6
	SAE06	Systèmes réactifs, turbulence et transferts, applications à la propulsion terrestre et aéronautique	autumn	6
	SAE11	Systèmes Energétiques Efficents	autumn	6
	SAE12	Optimisation des Performances des Turbomachines	autumn	6
	SAE50	Stage recherche d'un semestre (1)	spring	30
				<b>Total: 60</b>
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: <a href="http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373">http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373</a>				
The level of language competence <sup>9</sup> in French [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>				

Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2320	IMPIANTI MECCANICI II	autumn	6
	2318	DINAMICA E CONTROLLO DELLE MACCHINE	autumn	6
	2947	TECNOLOGIE PER LE ENERGIE RINNOVABILI E LA PRODUZIONE DISTRIBUITA DELL'ENERGIA	spring	12
	2023	TIROCINIO	spring	6
	2948	MOTORI A COMBUSTIONE INTERNA E PROPULSORI IBRIDI	autumn	6
		ESAMI A SCELTA	spring	6
		ESAMI A SCELTA	spring	6
	2024	PROVA FINALE	spring	12
				<b>Total:60</b>

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

## Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student	Giuseppe De Lucia	<a href="mailto:delucia.giuseppe.1995@gmail.com">delucia.giuseppe.1995@gmail.com</a> <a href="mailto:g.delucia5@studenti.poliba.it">g.delucia5@studenti.poliba.it</a>	Student		
Responsible person <sup>10</sup> at the Sending Institution	Pietro De Palma	<a href="mailto:pietro.depalma@poliba.it">pietro.depalma@poliba.it</a>	Erasmus Departmental Coordinator		
Responsible person at the Receiving Institution <sup>11</sup>	Ricardo Noguera	<a href="mailto:Ricardo.noguera@ensam.eu">Ricardo.noguera@ensam.eu</a>			



Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	Boniello	Luca	30/12/95	Italian	M	2nd	Mechanical engineering
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Mechanical Engineering	IBARIO5	Via Amendola, 29 70020 BA	ITALY	Prof. Pietro De Palma pietro.deplama@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UNIVERSIDAD DEL PAIS DE VASCO	Mechanical Engineering	EBILBAO01	70126 BARI	SPAIN	Departmental Coordinator	

Before the mobility

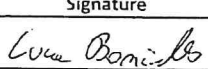
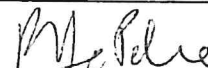
<i>Study Programme at the Receiving Institution</i>					
Planned period of the mobility: from [month/year] September to [month/year] February 2018					
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion	
		Cálculo de Máquinas		1*	6
		Materiales Estructurales: Comportamiento en Servicio y Mecánica de Fractura		1	6
		Tecnología Eléctrica		1*	6
		Organización de Empresas		1*	6
		Automática y Control		1*	6
				Total: 30	

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]

The level of language competence<sup>9</sup> in Spanish [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

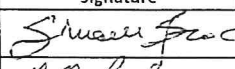
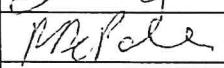
<i>Recognition at the Sending Institution</i>				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2318	Dinamica e controllo delle macchine	1*	6
	2316	Progettazione meccanica 2 e costruzione di macchina	1*	12
		Esame a scelta	1*	12

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

<i>Commitment</i>					
<p>By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.</p>					
Commitment	Name	Email	Position	Date	Signature
Student	Luca Boniello	bonielloluca@gmail.com	Student	18/07/18	
Responsible person <sup>10</sup> at the Sending Institution	Prof. Pietro De Palma	pietro.deplama@poliba.it	Erasmus departemental coordinator	18.07.2018	
Responsible person at the Receiving Institution <sup>11</sup>	Cecilia Fernández	ingenieria.internacional@ehu.es	Erasmus coordinator		

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	Simone	Braccio	20/09/1995	Italian	M	2 <sup>nd</sup> Cycle	0715
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Ingegneria Dipartimento di Meccanica, Matematica e Management	IBARIO5	Via Amendola, 126/B 70126 BARI	ITA	Prof. Pietro De Palma Coordinator Erasmus Departmental pietro.depalma@poliba.it + 39 080 596 3226	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Person name; email; phone	
	ENSAM	Ecole Nationale Supérieure d'Arts et Métiers	F PARIS62	151, Boulevard de l'Hôpital 75013 Paris	FRANCE	Prof. Ricardo Noguera Ricardo.NOGUERA@ensam.eu Téléphone: 33-(0)1.44.24.64.37 FAX: 33-(0)1.44.24.63.98	

**Before the mobility**

Study Programme at the Receiving Institution					
Planned period of the mobility: from September 2018 to July 2019					
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion	
	SAE01	Fondements de l'efficacité Énergétiques	Autumn	6	
	SAE06	Systèmes réactifs turbulence et transferts et transferts, applications à la propulsion terrestre et aéronautique	Autumn	6	
	SAE11	Systèmes énergétiques efficients	Autumn	6	
	SAE12	Optimisation des performances des turbomachines	Autumn	6	
	SAE13	Management stratégique et langue étrangère	Autumn	6	
	SOE50	Stage recherché d'un semestre	Spring	30	
				<b>Total: 60</b>	
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: <a href="http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373">http://dynfluid.ensam.eu/ingenierie-des-machines-de-conversion-d-energie-104835.kjsp?RH=1415871365373</a>					
The level of language competence <sup>9</sup> in French that the student already has or agrees to acquire by the start of the study period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input checked="" type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>					
Recognition at the Sending Institution					
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring;]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution	
	Cod. 2947	TECNOLOGIE PER LE ENERGIE RINNOVABILI E LA PRODUZIONE DISTRIBUITA DELL'ENERGIA	Autumn	12	
	Cod. 2948	MOTORI A COMBUSTIONE INTERNA E PROPULSORI IBRIDI	Autumn	6	
	Cod. 2318	DINAMICA E CONTROLLO DELLE MACCHINE	Autumn	6	
	Cod. 2320	IMPIANTI 2	Autumn	6	
	Cod. 2023	TIROCINIO	Spring	6	
	Cod. 2024	PROVA FINALE	Spring	12	
		ESAME A SCELTA	Spring	6	
		ESAME A SCELTA	Spring	6	
				<b>Total: 60</b>	
Provisions applying if the student does not complete successfully some educational components: <a href="http://climeg.poliba.it/file.php/1/ParisTech/BandoDDParisTech18-19.pdf">http://climeg.poliba.it/file.php/1/ParisTech/BandoDDParisTech18-19.pdf</a>					
Commitment					
By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.					
Commitment	Name	Email	Position	Date	Signature
Student	Simone Braccio	<a href="mailto:simonebraccio@yahoo.it">simonebraccio@yahoo.it</a>	Student	17.07.2018	
Responsible person <sup>10</sup> at the Sending Institution	Pietro De Palma	<a href="mailto:Pietro.depalma@poliba.it">Pietro.depalma@poliba.it</a>	Erasmus departmental Coordinator	17.07.2018	
Responsible person at the Receiving Institution <sup>11</sup>					

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	EPIFANIA	FEDELE	21/03/1993	ITALIAN	M	MAGISTRALE	MECCANICA - DMMM
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	ING. MECCANICA (DMMM)	IBARIO5	Via Amendola, 126/B 70126 BARI	ITA	PIETRO DE PALAMA pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UNIVERSITATEA TEHNICA DIN CLUJ-NAPOCA	FUCULTY OF ROAD VEHICLES, MECHATRONICS AND MECHANICAL ENGINEERING	RO CLUJNAP01	BD. MUNCHI NR. 103-105	ROM		

### Before the mobility

#### Study Programme at the Receiving Institution

Planned period of the mobility: from SEPTEMBER 2018 to FEBRUARY 2019

**Table A  
Before the mobility**

Component code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>6</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
55.00	MATERIALE METALICE	AUTUMN	5
57.00	MATERIALE CERAMICE SI VITROASE	AUTUMN	4
59.00	MATERIALE POLIMERICE	AUTUMN	3
15.00	MATERIALE COMPOSITE SI TEHNOLOGII DE FABRICATIE	AUTUMN	5
	DINAMICA AUTOVEHICULELOR I	AUTUMN	5
	DINAMICA AUTOVEHICULELOR I	AUTUMN	4
	SISTEME ALTERNATIVE DE PROPULSIE PENTRU AUTOMOBILE	AUTUMN	4
		<b>TOTAL</b>	<b>30</b>

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]

The level of language competence<sup>9</sup> in \_\_\_\_\_ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

**Table B  
Before the mobility**

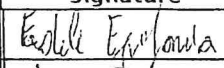

#### Recognition at the Sending Institution

Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
2317	TECNOLOGIA MECCANICA II	SPRING	9
2625	LAVORAZIONI DI MATERIALI AERONAUTICI	SPRING	6
2661	PROGETTAZIONE CON MATERIALI INNOVATIVI E SPERIMENTAZIONE PER AEROMOBILI	SPRING	12
		<b>TOTAL</b>	<b>27</b>

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

#### Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student	FEDELE EPIFANIA	f.epifania@studenti.poliba.it	Student	3.7.2018	
Responsible person <sup>10</sup> at the Sending Institution	Prof. PIETRO DE PALMA	pietro.depalma@poliba.it	Erasmus Departmental Coordinator	3.7.2018	
Responsible person at the Receiving Institution <sup>11</sup>					



# Higher Education Erasmus+ Learning Agreement for Studies

*Student's name*  
*Academic Year 2018/2019*

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	FERRI	GIANMATTEO	15/12/1994	ITALIANA	M	MASTER	Industrial engineering
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	MECHANICAL ENGINEERING/DMMM	IBARI05	Via Amendola, 126/B 70126 BARI	ITA	Erasmus Departmental Coordinator: Pietro De Palma; pietro.depalma@poliba.it; +39 080 596 3226	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	Universitatea Tehnica Din Cluji-Napoca	Facultatea Constructii de Masini /Facultatea de mecanica	ROCLUJNAP05	Boulevardul muncii 115 ,40000 CLUJ-NAPOCA,ROMANIA	RO	Corina Barleanu ; Corina.Barleanu@omt.utcluj.ro	

### Before the mobility

<i>Study Programme at the Receiving Institution</i>				
Planned period of the mobility: from [month/year] ..... to [month/year] .....				
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
	44.00	MARKETING	AUTUMN	4
	60.00	HUMAN RESOURSE MANAGEMENT	AUTUMN	3
	58.00	PRODUCTION SYSTEM ENGINEERING	AUTUMN	6
	57.20	FABRICATIA ASISTATA DE CALCULATOR	AUTUMN	3
	36.00	ORGANE DE MASINI 2	AUTUMN	5
	40.00	METODA ELEMENTULUI FINIT	AUTUMN	3
	52.00	MOTOARE CU ARDERE INTERNA	AUTUMN	6
				<b>Total: 30</b>
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]				

The level of language competence<sup>9</sup> in \_ENGLISH\_\_\_\_\_ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

*Me*



# Higher Education Learning Agreement for Studies



Erasmus+

GIUSEPPE FORNELLI  
Academic Year 2018 /2019

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	FORNELLI	GIUSEPPE	11/05/1993	ITALIAN	M	MAGISTRALE	MECCANICA - DMMM
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	ING. MECCANICA (DMMM)	IBAR105	Via Amendola, 126/B 70126 BARI	ITA	PIETRO DE PALMA pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UNIVERSITATEA TEHNICA DIN CLUJ-NAPOCA	FACULTY OF ROAD VEHICLES, MECHATRONICS AND MECHANICAL ENGINEERING	RO CLUJNAP01	BD. MUNCII NR. 103-105	ROM		

### Before the mobility

#### Study Programme at the Receiving Institution

Planned period of the mobility: from SEPTEMBER 2018 to FEBRUARY 2019

Table A Before the mobility	Component code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>1</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
		55,00	MATERIALE METALICE	AUTUMN
	57,00	MATERIALE CERAMICE SI VITROASE	AUTUMN	4
	59,00	MATERIALE POLIMERICE	AUTUMN	3
	15,00	MATERIALE COMPOZITE SI TEHNOLOGII DE FABRICATIE	AUTUMN	5
		DINAMICA AUTOVEHICULELOR I	AUTUMN	5
		DINAMICA AUTOVEHICULELOR I	AUTUMN	4
		SISTEME ALTERNATIVE DE PROPULSIE PENTRU AUTOMOBILE	AUTUMN	4
		<b>TOTAL</b>		<b>30</b>

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]

The level of language competence<sup>9</sup> in \_\_\_\_\_ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

Table B Before the mobility	Recognition at the Sending Institution			
	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2317	TECNOLOGIA MECCANICA II	SPRING	9
	2625	LAVORAZIONI DI MATERIALI AERONAUTICI	SPRING	6
	2661	PROGETTAZIONE CON MATERIALI INNOVATIVI E SPERIMENTAZIONE PER AEROMOBILI	SPRING	12
		<b>TOTAL</b>		<b>27</b>

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

#### Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student	FORNELLI GIUSEPPE	g.fornelli@studenti.poliba.it	Student	3.7.2018	
Responsible person <sup>10</sup> at the Sending Institution	Prof. PIETRO DE PALMA	pietro.depalma@poliba.it	Erasmus Departmental Coordinator	3.7.2018	
Responsible person at the Receiving Institution <sup>11</sup>					



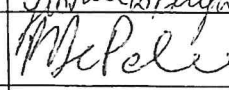
Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	LA FORGIA	GIOVANNI	08/10/1995	ITALIAN	M	EQF LEVEL 7	MECHANICAL ENGINEERING
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	DMMM	IBARIO5	Via Amendola, 126/B 70126 BARI	ITA	Erasmus Departmental Coordinator: Prof. Pietro De Palma 0805963226 pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	RWTH AACHEN UNIVERSITY	Faculty of Mechanical Engineering	D AACHEN01	Templergraben 55, 52062 Aachen, Germania	DE	Erasmus Departmental Coordinator: Dipl.-Übers. Antje Zimmermann +49 241 80 98356 zimmermann@fb4.rwth-aachen.de	

## Before the mobility

Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] 09/2018 to [month/year] 01/2019				
Table A Before the mobility	Component <sup>6</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>3</sup> to be awarded by the Receiving Institution upon successful completion
		CONTROL ENGINEERING	WINTER	5
		INTERNAL COMBUSTION II	WINTER	6
		COMBUSTION I	WINTER	5
		INTERNAL COMBUSTION ENGINE FUNDAMENTALS	WINTER	4
		INDUSTRIELLE UMWELTECHNIK UND LUFTREINHALTUNG	WINTER	5
		INDUSTRIAL ENGINEERING	WINTER	6
				Total: 31
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]				

The level of language competence <sup>9</sup> in english [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input checked="" type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>
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Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2318	DINAMICA E CONTROLLO DELLE MACCHINE	WINTER	6
	2948	MOTORI A COMBUSTIONE INTERNA E PROPULSORI IBRIDI	WINTER	6
	2320	IMPIANTI MECCANICI II	WINTER	6
		ESAME A SCELTA		6
		ESAME A SCELTA		6
				Total: 30
Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]				

Commitment					
By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.					
Commitment	Name	Email	Position	Date	Signature
Student	GIOVANNI LA FORGIA	glaforgia95@gmail.com	Student	16/07/18	
Responsible person <sup>10</sup> at the Sending Institution	PIETRO DE PALMA	Pietro.depalma@poliba.it	Erasmus Departmental Coordinator	16/07/18	
Responsible person at the Receiving Institution <sup>11</sup>	ANTJE ZIMMERMANN	zimmermann@fb4.rwth-aachen.de	Erasmus Departmental Coordinator		



# Learning Agreement

## Student Mobility for Traineeships

Higher Education:  
Learning Agreement form  
*Student's name*  
*Academic Year 2017/2018*

Trainee	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex (M/F)	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
		PARISI	GIORGIO	11/03/1990	ITA	M	EQF7
Sending Institution	Name	Faculty/ Department		Address	Country	Contact person name <sup>4</sup> ; email; phone	
	POLITECNICO DI BARI	Ing.Meccanica / DMMM		Via Amendola, 126/B – 70126 Bari	ITALY	Erasmus Departmental Coordinator : Pietro De Palma pietro.depalma@poliba.it +39 080 5963226	
Receiving Organisation /Enterprise	Name	Department	Address; website	Country	Size	Contact person <sup>5</sup> name; position; e-mail; phone	Mentor <sup>6</sup> name; position; e-mail; phone
	Budapest University of Technology and Economics	Department of Applied Mechanics	1111 Budapest, Műgyetem rkp. 5, Ungheria; https://www.bme.hu/?language=en	Hungary	<input type="checkbox"/> < 250 employees <input checked="" type="checkbox"/> > 250 employees	Giuseppe Habib; associate researcher; habib@mm.bme.hu; +3614633678	Giuseppe Habib; associate researcher; habib@mm.bme.hu; +3614633678

### Before the mobility

Table A - Traineeship Programme at the Receiving Organisation/Enterprise	
Planned period of the mobility: from [gg-mm-aaaa] 24 August 2018 to [gg-mm-aaaa] 31 October 2018	
Traineeship title: Smart implementation of nonlinearity for friction-induced vibration control.	Number of working hours per week: 40
Detailed programme of the traineeship: The trainee will deal with a mechanical system consisting of a lumped mass subject to friction-induced vibrations. The problem will be initially studied numerically, with the objective of understanding the general phenomenology. Additional nonlinear components (elastic and damping elements) will be successively included in the system to control the onset of vibrations. Analytical techniques (perturbation methods) will be implemented for improving the understanding of the dynamics.	
Knowledge, skills and competences to be acquired by the end of the traineeship (expected Learning Outcomes): The trainee will learn how to perform numerical simulations for few-degrees-of-freedom mechanical systems. He will understand basic concepts of nonlinear dynamics and bifurcation theory for the case of friction-induced vibrations. He will be able to handle standard perturbation techniques for bifurcation analysis. He will learn the phenomenology leading to friction-induced vibrations.	
Monitoring plan: The mentor will have weekly meeting with the trainee to monitor and address the progression of the research.	
Evaluation plan: At the end of the training period, the mentor will evaluate the traineeship based on the scientific outcome of the research and on a final report prepared by the trainee. The report will be later implemented in the master thesis of the trainee.	
The level of language competence <sup>7</sup> in English [indicate here the main language of work] that the trainee already has or agrees to acquire by the start of the mobility period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input checked="" type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/>	

Table B - Sending Institution	
Please use only one of the following three boxes: <sup>8</sup>	
1. The traineeship is <b>embedded in the curriculum</b> and upon satisfactory completion of the traineeship, the institution undertakes to:	
Award 6 ECTS credits (or equivalent) <sup>9</sup>	Give a grade based on: Traineeship certificate <input checked="" type="checkbox"/> Final report <input type="checkbox"/> Interview <input type="checkbox"/>
Record the traineeship in the trainee's Transcript of Records and Diploma Supplement (or equivalent).	
Record the traineeship in the trainee's Europass Mobility Document: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
2. The traineeship is <b>voluntary</b> and, upon satisfactory completion of the traineeship, the institution undertakes to:	
Award ECTS credits (or equivalent): Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, please indicate the number of credits: ....
Give a grade: Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, please indicate if this will be based on: Traineeship certificate <input type="checkbox"/> Final report <input type="checkbox"/> Interview <input type="checkbox"/>
Record the traineeship in the trainee's Transcript of Records: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Record the traineeship in the trainee's Diploma Supplement (or equivalent).	
Record the traineeship in the trainee's Europass Mobility Document: Yes <input type="checkbox"/> No <input type="checkbox"/>	



Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	PAZIENZA	PAOLO	12/10/1995	ITALIAN	M	EQF LEVEL 7	MECHANICAL ENGINEERING
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	DMMM	IBARIO5	Via Amendola, 126/B 70126 BARI	ITA	Erasmus Departmental Coordinator: Prof. Pietro De Palma 0805963226 pietro.depalma@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	RWTH AACHEN UNIVERSITY	Faculty of Mechanical Engineering	D AACHEN01	Templergraben 55, 52062 Aachen, Germania	DE	Erasmus Departmental Coordinator: Dipl.-Übers. Antje Zimmermann +49 241 80 98356 zimmermann@fb4.rwth-aachen.de	

## Before the mobility

Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] 09/2018 to [month/year] 01/2019				
Table A Before the mobility	Component <sup>5</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester (e.g. autumn/spring; term)	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
		CONTROL ENGINEERING	WINTER	5
		INTERNAL COMBUSTION II	WINTER	6
		COMBUSTION I	WINTER	5
		INTERNAL COMBUSTION ENGINE FUNDAMENTALS	WINTER	4
		INDUSTRIELLE UMWELTECHNIK UND LUFTREINHALTUNG	WINTER	5
		INDUSTRIAL ENGINEERING	WINTER	6
Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]				

The level of language competence<sup>9</sup> in english [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester (e.g. autumn/spring; term)	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2318	DINAMICA E CONRTROLLO DELLE MACCHINE	WINTER	6
	2948	MOTORI A COMBUSTIONE INTERNA E PROPULSORI IBRIDI	WINTER	6
	2320	IMPIANTI MECCANICI II	WINTER	6
		ESAME A SCELTA		6
		ESAME A SCELTA		6
Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]				

## Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student	PAOLO PAZIENZA	paziENZA.p95@gmail.com	Student	16/07/18	<i>Paolo PaziENZA</i>
Responsible person <sup>10</sup> at the Sending Institution	PIETRO DE PALMA	pietro.depalma@poliba.it	Erasmus Departmental Coordinator	16/07/18	<i>Mc.Pala</i>
Responsible person at the Receiving Institution <sup>11</sup>	ANTJE ZIMMERMANN	zimmermann@fb4.rwth-aachen.de	Erasmus Departmental Coordinator		

Student	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	Rubini	Davide	30/01/95	Italian	M	2nd	Mechanical engineering
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Mechanical Engineering	IBARIO5	Via Amendola, 29 70020 BA	ITALY	Prof. Pietro De Palma pietro.deplama@poliba.it	
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	
	UNIVERSIDAD DEL PAIS DE VASCO	Mechanical Engineering	EBILBAO01	70126 BARI	SPAIN	Departmental Coordinator	

Before the mobility

Study Programme at the Receiving Institution				
Planned period of the mobility: from [month/year] September 2018 to [month/year] February 2019				
Table A Before the mobility	Component <sup>5</sup> code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue <sup>7</sup> )	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) <sup>8</sup> to be awarded by the Receiving Institution upon successful completion
		Cálculo de Máquinas	1*	6
		Materiales Estructurales: Comportamiento en Servicio y Mecánica de Fractura	1	6
		Tecnología Eléctrica	1*	6
		Organización de Empresas	1*	6
		Automática y Control	1*	6
				Total: 30

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]

The level of language competence<sup>9</sup> in Spanish \_\_\_\_\_ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1  A2  B1  B2  C1  C2  Native speaker

Recognition at the Sending Institution				
Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester [e.g. autumn/spring; term]	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
	2318	Dinamica e controllo delle macchine	1*	6
	2315	Progettazione meccanica 2 e costruzione di macchina	1*	12
		Esame a scelta	1*	12
				Total: 30

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

Commitment					
By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Sending Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.					
Commitment	Name	Email	Position	Date	Signature
Student	Davide Rubini	daviderubini1@gmail.com	Student	18.07.18	Davide Rubini
Responsible person <sup>10</sup> at the Sending Institution	Prof. Pietro De Palma	pietro.deplama@poliba.it	Erasmus departmental coordinator	18.07.2018	P. De Palma
Responsible person at the Receiving Institution <sup>11</sup>	Cecilia Fernández	ingenieria.internacional@ehu.eus	Erasmus coordinator		



## Higher Education Learning Agreement for Traineeships

*Student's name*  
*Academic Year 2017/2018*



Trainee	Last name(s)	First name(s)	Date of birth	Nationality <sup>1</sup>	Sex [M/F]	Study cycle <sup>2</sup>	Field of education <sup>3</sup>
	LONGOBARDI	VINCENZO	04/05/1989	ITA	M	EQF7	0788
Sending Institution	Name	Faculty/Department	Erasmus code <sup>4</sup> (if applicable)	Address	Country	Contact person name <sup>5</sup> ; email; phone	
	POLITECNICO DI BARI	Ing.Meccanica / DMMM	IBARIO5	Via Amendola 126b 70126 Bari	ITA	Erasmus Departmental Coordinator : Pietro De Palma pietro.depalma@poliba.it +39 080 5963226	
Receiving Organisation /Enterprise	Name	Department	Address; website	Country	Size Erasmus code <sup>6</sup> (if applicable) PIC (if applicable)	Contact person <sup>7</sup> name; position; e-mail; phone	Mentor <sup>8</sup> name; position; e-mail; phone
	Budapest University of Technology and Economics	Department of Applied Mechanics	1111 Budapest, Műegyetem rkp. 5, Ungheria; <a href="https://www.bme.hu/?language=en">https://www.bme.hu/?language=en</a>	Hungary	<input type="checkbox"/> < 250 employees <input checked="" type="checkbox"/> > 250 employees	Giuseppe Habib; associate researcher; <a href="mailto:habib@mm.bme.hu">habib@mm.bme.hu</a> ; +3614633678	Giuseppe Habib; associate researcher; <a href="mailto:habib@mm.bme.hu">habib@mm.bme.hu</a> ; +3614633678

### Before the mobility

<i>Table A - Traineeship Programme at the Receiving Organisation/Enterprise</i>	
Planned period of the mobility: from [month/year] 24 August 2018 to [month/year] 31 October 2018	
Traineeship title: Smart implementation of nonlinearity for friction-induced vibration control.	Number of working hours per week: 40
<p><b>Detailed programme of the traineeship:</b> The trainee will deal with a mechanical system consisting of a lumped mass subject to friction-induced vibrations. The problem will be initially studied numerically, with the objective of understanding the general phenomenology. Additional nonlinear components (elastic and damping elements) will be successively included in the system to control the onset of vibrations. Analytical techniques (perturbation methods) will be implemented for improving the understanding of the dynamics.</p>	
<p><b>Knowledge, skills and competences to be acquired by the end of the traineeship (expected Learning Outcomes):</b> The trainee will learn how to perform numerical simulations for few-degrees-of-freedom mechanical systems. He will understand basic concepts of nonlinear dynamics and bifurcation theory for the case of friction-induced vibrations. He will be able to handle standard perturbation techniques for bifurcation analysis. He will learn the phenomenology leading to friction-induced vibrations.</p>	
<p><b>Monitoring plan:</b> The mentor will have weekly meeting with the trainee to monitor and address the progression of the research.</p>	
<p><b>Evaluation plan:</b> at the end of the training period, the mentor will evaluate the traineeship based on the scientific outcome of the research and on a final report prepared by the trainee. The report will be later implemented in the master thesis of the trainee.</p>	
<p>The level of language competence<sup>9</sup> in English [indicate here the main language of work] that the trainee already has or agrees to acquire by the start of the mobility period is: A1 <input type="checkbox"/> A2 <input type="checkbox"/> B1 <input type="checkbox"/> B2 <input checked="" type="checkbox"/> C1 <input type="checkbox"/> C2 <input type="checkbox"/> Native speaker <input type="checkbox"/></p>	

<i>Table B - Sending Institution</i>	
Please use only one of the following three boxes: <sup>10</sup>	
1. The traineeship is embedded in the curriculum and upon satisfactory completion of the traineeship, the institution undertakes to:	
Award ..... ECTS credits (or equivalent) <sup>11</sup>	Give a grade based on: Traineeship certificate <input type="checkbox"/> Final report <input type="checkbox"/> Interview <input type="checkbox"/>
Record the traineeship in the trainee's Transcript of Records and Diploma Supplement (or equivalent).	
Record the traineeship in the trainee's Europass Mobility Document: Yes <input type="checkbox"/> No <input type="checkbox"/>	
2. The traineeship is voluntary and, upon satisfactory completion of the traineeship, the institution undertakes to:	
Award ECTS credits (or equivalent): Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, please indicate the number of credits: 6
Give a grade: Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, please indicate if this will be based on: Traineeship certificate <input type="checkbox"/> Final report <input type="checkbox"/> Interview <input type="checkbox"/>
Record the traineeship in the trainee's Transcript of Records: Yes <input type="checkbox"/> No <input type="checkbox"/>	