



Tempus Project n. 517340-TEMPUS-1-2011-1-IT-TEMPUS-SMGR Documentation for Quality Assurance of Study Programmes (DoQuP)

Example of Documentation for Quality Assurance of Study Programmes according to the DoQuP Model

Bachelor in Physics *Documentation File - Annexes*

March 2015

Year/ Semester	Didactic Unit	ECTS credits	Lecturer(s)
I/1°	Physics 1	6	Bernabeu Guillermo

Curriculum - Academic Year 2013-14

Curriculum - Academic Year 2013-14 Characteristics of the Didactic Units

Nama	Dhusias 1
Name	Physics 1
Year / Semester	1/1°
Lecturer	Bernabeu Guillermo
Specific learning	
outcomes	
Contents	
Schedule	
instructional forms of	Face to face, 60 hours
education	
	Lectures, 35 hours
Teaching techniques	Practical classes, 20 hours
	Laboratory sessions, 5 hours
Assessment	Written and oral
methods	
Assessment criteria	
Assessment metrics	Attribution of a final grade
Criteria of attribution	
of the final grade	
Preparatory didactic	Mathematics1
units	Mainemalics i
Didactic material	Bernabeu G., Physics 1, DoQuP Edition
Name	

Characteristics of the Graduation Exam

Suitability of the curriculum to the achievement of the expected learning outcomes Academic Year 2013-14

Academic Teal 2013-14				
Learning outcomes	Didactic units which contribute to the accomplishment of the learning outcome			
Ability to demonstrate knowledge and understanding of physics fundamentals in: classical mechanics, vibrations and waves, optics and spectroscopy, thermodynamics, electromagnetism, quantum physics. The level of this knowledge of core physics is a basic one, i.e. the level needed for working with established areas of applications but not as high as is needed for research at the frontiers of knowledge.	Physics 1 Physics 2			

Lecturer	Qualification *	Didactic units of the SP **	Didactic units of other SP **
Bernabeu Guillermo	FP	Physic 1 (ID)	Physics 2 (AD)
 Musaio Angelo	PR	Experimental Physics (C)	

Teaching Staff - Academic Year 2013-14

* FP: Full Professor; AP: Associate professor; ...; PR: Professional.

** ID: Institutional Duty; AD: Additional Duty; ...; C: Contract.

BACHELOR IN PHYSICS

Teaching Support Staff - Academic Year 2013-14

Didactic Unit	Support Teacher	Qualification	N. of hours of didactic workload	Task
Mathematics 1	Zich Michele	PhD Student	40	Practical Training
Experimental Physics	Holzer David	Professional	12	Lab Assistance

PHYSICS DEPARTMENT

Classrooms						
Classroom	Number of seats	Audiovisual equipments	Web connection	Surveillance		
PD1	40	Videoprojector	Yes	1 auxiliary (9.00-13.00 14.00-18.00)		

PHYSICS DEPARTMENT

Laboratories					
Laboratory	Equipments	Work places / N. students per work place	Surveillance		
Informatics	30 PC	30/2	1 technician (9.00-13.00 14.00-18.00)		
Metrology	Equipments for the measure of mechanical quantities	6/4	1 technician (9.00-13.00 14.00-18.00)		
			,		

PHYSICS DEPARTMENT

Libraries				
	Library of the Physics Department			
Bibliographical material of interest for the didactic activities of the Bachelor in Physics				
Web Connection				
Services offered				
Opening time and access rules				
Librarian staff available				

PHYSICS DEPARTMENT

Expense Voices	€
Remuneration of the contract teachers	
Remuneration of the support teachers	
Updating of the equipments of the didactic laboratories	
Maintenance of the didactic laboratories	
Didactic material to be distributed to students	

Needs of financial resources for the didactic activities – Academic Year 2013-14

PHYSICS DEPARTMENT

Availability of financial resources for the didactic activities - A.Y. 2013-14

Financer Body € Available for			
Central Administration of the		Remuneration of the contract teachers	
University		Remuneration of the support teachers	
Students' contributes		Updating of the equipments of the didactic laboratories Maintenance of the didactic laboratories Didactic material to be distributed to students	
UBI Bank		Updating of the equipments of the didactic laboratories	

Partnerships for carrying out training periods outside University

Body	N. of students	N. of students	N. of students
	involved	involved	involved
	A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13

BACHELOR IN PHYSICS

Partnerships for carrying out international mobility periods

Institution	N. of students in exit A.Y. 2010/11	N. of students in entrance A.Y. 2010/11	N. of students in exit A.Y. 2011/12	N. of students in entrance A.Y. 2011/12	N. of students in exit A.Y. 2012/13	N. of students in entrance A.Y. 2012/13

Results of the assessment of the mastery of the admission requirements

	A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13
N. of students with an admission grade between and			
N. of students with an admission grade >			

Students enrolled in t	ne first course year		
	A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13
Students enrolled in the firs	course year	·	·
New enrolments			
Provenance from other study programmes			
Students enrolled in the first course year subdivi	ded per geographical	provenance	
Residents in the same province			
Residents in the same region			
Foreign students			
Students enrolled in the first course year subdi	vided per school of pr	ovenance	
Students enrolled in the first course year subdivided per	grade of the school-le	eaving examination	
N. of students with grade of the school-leaving examination between and			
N. of students with grade of the school-leaving examination >			

Students enrolled in the first course year

Results of the tests for the assessment of the students' learning

		A.Y. 2		ſ		A.Y. 2	011/12		•	A.Y. 2	012/13	
Didactic units *	N. of students **	N. of students who have overcome the exam ***	Medium grade	Variance	N. of students **	N. of students who have overcome the exam ***	Medium grade	Variance	N. of students **	N. of students who have overcome the exam ***	Medium grade	Variance
												•••

* In alphabetical order.
 ** Number of students who had the didactic unit in their study plan in the year under consideration.
 *** With reference to the students who had the didactic unit in their study plan in the year under consideration.

Enrolments in the different course years

A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13
	A.Y. 2010/11	A.Y. 2010/11 A.Y. 2011/12

* Cohort: whole of the students enrolled in the first course year in the academic year of reference. ** University students who have failed to complete their course in the prescribed time.

Dropouts								
	A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13					
Dropouts between the 1st and 2 nd course year								
Students who have changed study programme in the same University								
Students who have changed University								
Dropouts between the 2 nd and 3 rd course year								
Students who have changed study programme in the same University								
Students who have changed University								
Dropouts between the 3 rd and 4th course year								
Students who have changed study programme in the same University								
Students who have changed University								

Credits acquired by the students passing from one course year to the successive one

		A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13
	N. of students			
Students enrolled in the 2 nd course	Median of the acquired credits			
year holding to the reference cohort	Medium value of the acquired credits			
	Variance			
	N. of students			
Students enrolled in the 3 rd course	Median of the acquired credits			
year holding to the reference cohort	Medium value of the acquired credits			
	Variance			
	N. of students			
Students enrolled in the 4 th course	Median of the acquired credits			
year holding to the reference cohort	Medium value of the acquired credits			
	Variance			
	N. of students			
Out-of-course students holding to the	Median of the acquired credits			
reference cohort	Medium value of the acquired credits			
	Variance			

Graduates

	A.Y. 2010/11	A.Y. 2011/12	A.Y. 2012/13
N. of graduates			
Graduates holding to the cohort of A.Y. 2009/10	-	-	
Graduates holding to the cohort of A.Y. 2008/09	-		
Graduates holding to the cohort of A.Y. 2007/08			
Graduates with graduation grade $\geq \dots$			

BACHELOR IN PHYSICS Questionnaire for the monitoring of the students' opinion on the didactic units

Identification of the didactic unit

At least: Academic Year / Study Programme / Didactic Unit

Questions

a) Organization of the didactic unit

Timetable of the educational activities

1. Is the timetable of the educational activities (lectures, seminars, exercises, laboratory activities, etc.) compatible with the possibility to attend the lectures of all the other didactic units and, at the same time, with your needs of individual study?

Possible answers: Yes / More yes than no / More no than yes / No

Prior knowledge

2. Was your prior knowledge sufficient to understand the topics covered by the didactic unit? *Possible answers:* Yes / More yes than no / More no than yes / No

Study materials

3. Are the indicated, recommended or provided study materials (textbooks, presentations, etc.) adequate for the study and learning of the topics covered by the didactic unit? *Possible answers:* Yes / More yes than no / More no than yes / No

Examination modalities

4. Have the examination modalities been clearly defined before the beginning of the didactic unit? *Possible answers:* Yes / More yes than no / More no than yes / No

b) Teaching activity

Respect of the timetable of the educational activities

5. Have the educational activities (lectures, seminars, exercises, laboratory activities, etc.) been carried out according to the established timetable? *Possible answers:* Yes / More yes than no / More no than yes / No

Respect of the didactic -unit syllabus

6. Do the topics developed in the didactic unit correspond to the established syllabus? *Possible answers:* Yes / More yes than no / More no than yes / No

Effectiveness of the integrative educational activities1

7. Are the integrative educational activities (seminars, exercises, laboratory activities, etc.) coordinated with the lectures?

Possible answers: There are no integrative educational activities / Yes / More yes than no / More no than yes / No

8. Are the integrative educational activities (seminars, exercises, laboratory activities, etc.) effective for the learning of the discipline covered by the didactic unit?

¹ Integrative educational activities: all the educational activities different from lectures (seminars, exercises, laboratory activities, etc.).

Possible answers: There are no integrative educational activities / Yes / More yes than no / More no than yes / No

Teaching skills of the lecturer

9. Does the lecturer present the topics in a clear and understandable way? *Possible answers:* Yes / More yes than no / More no than yes / No
10. Does the lecturer stimulate the interest/motivate in the discipline covered by the didactic unit? *Possible answers:* Yes / More yes than no / More no than yes / No

Availability of the lecturer for questions and explanations

11. Is the lecturer available for questions and explanations? *Possible answers:* Yes / More yes than no / More no than yes / No

Teaching skills of teaching support staff²

12. Does the teaching support staff present the topics in a clear and understandable way? *Possible answers:* There is no teaching support staff / Yes / More yes than no / More no than yes / No
13. Does the teaching support staff stimulate the interest/motivate in the discipline? *Possible answers:* There is no teaching support staff / Yes / More yes than no / More no than yes / No

<u>Availability of the teaching support staff for questions and explanations</u> 14. Is the teaching support staff available for questions and explanations? *Possible answers:* There is no teaching support staff / Yes / More yes than no / More no than yes / No

c) Facilities used by the didactic unit

Lecture rooms

15. Are the lecture rooms in which the educational activities have been carried out adequate (as for to get seated, to see well, to hear well, to write well)? *Possible answers:* Yes / More yes than no / More no than yes / No

Premises and equipment for the integrative educational activities

16. Are the premises and equipment for the integrative study activities (seminars, tutorials, laboratories, etc.) adequate?

Possible answers: Yes / More yes than no / More no than yes / No

d) Interest and usefulness of the didactic unit

Interest of the didactic unit

17. Are the topics covered by the didactic unit of your interest? *Possible answers:* Yes / More yes than no / More no than yes / No

Usefulness of the didactic unit

18. Do you think that the topics covered by the didactic unit will be useful for your future occupation/profession? *Possible answers:* Yes / More yes than no / More no than yes / No

e) Further observations and suggestions

² Teaching support staff: teachers in charge of exercises, teachers in charge of laboratory activities, etc..

Questionnaire for the monitoring of the students' opinion on the training periods outside University

Information on the student

At least: Study Programme / Year of enrolment / Number of credits accumulated before the start of the training period outside University

Information on the training period

At least: Company/Organization where the training period has been carried out / Topic of the training period / Duration of the training period (from ... to ...) / Total number of training hours

Questions

Interest of the topic(s) of the training period 1. Has the topic of the training period been of your interest? *Possible answers:* Yes / More yes than no / More no than yes / No

<u>Correspondence between planned and carried out training activities</u> 2. Was there correspondence between planned and carried out training activities? *Possible answers:* Yes / More yes than no / More no than yes / No

<u>Duration and number of training hours of the training period</u> 3. Have the duration of the training period and the number of training hours been adequate? *Possible answers:* Yes / More yes than no / More no than yes / No

<u>Effectiveness of the training period as for the improvement of the subject-area related competences</u>³ 4. Has the training period improved your subject-area related competences? *Possible answers:* Yes / More yes than no / More no than yes / No

Effectiveness of the training period as for the improvement of the generic competences⁴ 5. Has the training period improved your generic competences? *Possible answers:* Yes / More yes than no / More no than yes / No

<u>Company/organization tutoring</u> 6. Has the company/organization tutoring been adequate? *Possible answers:* Yes / More yes than no / More no than yes / No

<u>Assessment of the hosting company/organization</u> 7. Would you carry out again the training period in the same company/organization?

Possible answers: Yes / More yes than no / More no than yes / No

Further Observations and Suggestions

³ Subject-area related competences: competences specific to a field of study.

⁴ Generic competences: competences common to any study programme.

Questionnaire for the monitoring of the students' opinion on the periods of international mobility

Information on the student

At least: Study Programme / Year of enrolment / Number of credits accumulated before the start of the mobility

Mobility programme

At least: University and Department where the mobility has been carried out / Duration of the mobility (from ... to ...) / Number of credits to be accumulated according to the mobility programme / Number of credits accumulated at the end of the mobility period

Questions

Language knowledge

1. Was your knowledge of the language sufficient to understand the topics covered by the course units? *Possible answers:* Yes / More yes than no / More no than yes / No

Usefulness of the course units

2. Have the course units you followed during the period of mobility been recognized as an integral part of your curriculum?

Possible answers: Yes / More yes than no / More no than yes / No

Organization of the course units

3. What is your assessment of the organization of the course units (timetable of the educational activities, workload required for the achievement of the learning outcomes, availability of study materials, definition of the examination modalities)?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

Teaching activities

4. What is your assessment of the teaching activities (respect of the timetable of the educational activities, respect of the syllabus of the course units, effectiveness of the integrative educational activities⁵, teaching skills of the lecturer and of teaching support staff, availability of the lecturers and of teaching support staff for questions and explanations)?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

Facilities used by the course units

5. What is your assessment of the facilities used by the course units (lecture rooms, premises and equipment for the integrative educational activities, libraries)?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

Examinations organization

6. What is your assessment of the examination organization (appeals, schedules, information, reservations, etc.)?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

⁵ Integrative educational activities: all the educational activities different from lectures (seminars, exercises, laboratory activities, etc.).

Support services

7. What is your assessment of the tutoring service? *Possible answers:* Positive / More positive than negative / More negative than positive / Negative

Positive aspects of the mobility period

8. What have been the positive aspects of your mobility period?

Negative aspects of the mobility period

9. What have been the negative aspects of your mobility period?

Overall assessment of the mobility period

10. What is your overall assessment of the mobility period? *Possible answers:* Positive / More positive than negative / More negative than positive / Negative

Assessment of the hosting University/Department

11. Would you carry out the mobility period in the same University/Department again? *Possible answers:* Yes / More yes than no / More no than yes / No

Further Observations and Suggestions

Questionnaire for the monitoring of the final year students' opinion on the educational process and on the student support services

Information on the graduate

At least: Age / Sex / Residence / Study Programme / Year of enrolment

Information on the carrying out of working activities *Example of question:* Have you worked during the lecture periods? *Possible answers:* Yes, full-time with continuity / Yes, part-time with continuity / Yes, but only occasionally, intermittently, seasonally/ No

Questions

a) Organization of the study programme

Individual learning and teaching path

1. Had you the possibility / have you been encouraged to design an individual learning and teaching path? *Possible answers:* Yes / More yes than no / More no then yes / No

Organization of the didactic units

2. Has the overall organization of the didactic units (sequence of the course units in the syllabus, coordination among the course units, timetable of the educational activities) been satisfactory? *Possible answers:* Yes / More yes than no / More no then yes / No

Required workload

3. Was the overall workload required by the didactic units for the achievement of the learning outcomes sustainable and appropriate to the duration of the SP? *Possible answers:* Yes / More yes than no / More no then yes / No

Examination organization

4. Has the overall organization of examinations (appeals, schedules, information, reservations, etc.) been satisfactory?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

Correspondence between the examination results and the student's preparation 5. Have the results of the examinations reflected your actual preparation? *Possible answers:* Yes / More yes than no / More no then yes / No

Assistance to the preparation of the graduation exam

6. Has the assistance received during the preparation of the graduation exam been satisfactory? *Possible answers:* Yes / More yes than no / More no then yes / No

b) Facilities used by the study programme

Logistic of the facilities used by the SP

7. What is your overall assessment of the logistic of facilities (lecture rooms, premises available for individual study, laboratories, including computer rooms) used by the SP? *Possible answers:* Positive / More positive than negative / More negative than positive / Negative

Library services

8. What is your overall assessment of the library services (in particular: opening hours, access to lending and consultation, access to databases, availability and professionalism of the staff)? *Possible answers:* Positive / More positive than negative / More negative than positive / Negative

c) Student support services

Service offered by the student administrative office6

9. What is your overall assessment of the service offered by the student administrative office/dean's office (in particular, access times, clarity of forms, availability and professionalism of the staff)? *Possible answers:* I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Orienteering service for students in entrance/service offered by the Admission Office

10. What is your overall assessment of the orienteering service for students in entrance/service offered by the Admission Office?

Possible answers: I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Tutoring service

11. What is your overall assessment of the tutoring service?

Possible answers: I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Service for carrying out training periods outside University7

12. What is your overall assessment of the service for carrying out training periods outside University? *Possible answers:* I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Service for students' mobility8

13. What is your overall assessment of the service for students' mobility? *Possible answers:* I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Job placement service

14. What is your overall assessment of the job placement service?

Possible answers: It was not present / I have not used this service / Positive / More positive than negative / More negative than positive / Negative

Website of the University/Department/SP

15. What is your overall assessment of the University/Department/SP website (in particular as for ease of navigation, completeness and update of information on the study programme, etc.)? *Possible answers:* I have not used the website / Positive / More positive than negative / More negative than positive / Negative

d) Overall assessments

⁶ Student administrative office: Office that manage the students' career (enrolments in the different course years, management of the administrative practices, etc.).

⁷ Training periods in national and/or international public and/or private bodies.

⁸ Mobility periods in national and/or international Higher Education Institutions.

Assessment of the SP

16. Are you satisfied of the SP you attended? *Possible answers:* Yes / More yes than no / More no than yes / No

Assessment of the University experience

17. If you could go back in time, would you enrol in University again?

Possible answers: Yes, in the same SP of this university / Yes, but in another SP of this university / Yes, in the same SP but in another university / Yes, but in another SP in another university / No, I would not enrol in university

Questionnaire for the monitoring of the graduates' job placement and of the employed graduates' opinions on the education received

Information on the employed graduate

Name and Surname / Age / Sex / Residence / Study Programme / Year of enrolment / Year of graduation

Questions

Graduate's current position/occupation

1. Which is your current position/occupation?

Possible answers: I am working in an area consistent with my qualification / I am working in a sector other than that of my qualification / I am looking for job / I am continuing or I intend to continue my studies / I am not looking for job and I do not intend to continue my studies / Other (military service, maternity leave, etc.)

Necessity of an educational qualification

2. Does your current position require an educational qualification equivalent to yours? *Possible answers:* Yes, it is a requirement by law / It is not a requirement by law, but it is necessary / It is not a requirement by law, but it is still useful / It is not a requirement by law and is not useful

Utilization of the competences acquired at University

3. Are you using/Have you used the competences acquired at University in the activities you are carrying out/have carried out?

Possible answers: Yes / More yes than no / More no than yes / No

Time to full operativeness / profitability

4. How much time was needed to become fully operative / profitable? *Possible answers:* Up to 3 months / Up to 6 months / Up to 1 year / More than 1 year

Usefulness of the training periods outside University9

5. Have the training periods carried out outside University helped you to enter the work environment? *Possible answers:* I have not carried out any training period outside University /Yes / More yes than no / More no than yes / No

Usefulness of the mobility periods¹⁰

6. Have the carried out mobility periods helped you to enter the work environment? *Possible answers:* I have not carried out any mobility period /Yes / More yes than no / More no than yes / No

Usefulness of the job placement service

7. Has the job placement service offered by the University been useful for finding a job? *Possible answers:* A job placement service was not provided / I did not use the job placement service / Yes / More yes than no / More no than yes / No

Satisfaction on the acquired subject-area related competences¹¹

⁹ Training periods in national and/or international public and/or private bodies.

¹⁰ Mobility periods in national and/or international Higher Education Institutions.

¹¹ Subject-area related competences: competences specific to a field of study.

8. According to your working experience, what is your assessment of the education received by the attended SP as for the acquired subject-area related competences?

Possible answers: Positive / More positive than negative / More negative than positive / Negative

Missing subject-area related competences

9. If your assessment is not 'Positive', please list the main subject-area related competences that would have served you according to your working experience and that you have not acquired during your studies.

Satisfaction on the acquired generic competences¹²

10. According to your working experience, what is your assessment of the education received by the attended SP as for the acquired generic (making judgment, communication, team-working/leadership, lifelong learning) competences?

Possible answers: Yes / More yes than no / More no than yes / No

Missing generic competences

11. If your assessment is not 'Positive', please list the main generic competences that would have served you according to your working experience and that you have not acquired during your studies.

Main strengths of the attended SP

12. List the main strengths of the attended SP according to your opinion

Main weaknesses of the attended SP

13. List the main weakness of the attended SP according to your opinion

Overall assessment of the University experience

14. If you could go back in time, would you enrol in University again?

Possible answers: Yes, in the same SP of this University / Yes, but in another SP of this University / Yes, in the same SP but in another University / Yes, but in another SP in another University / No, I would not enrol in University

¹² Generic competences: competences common to any study programme.

Processes for the SP management and responsibilities for their management

	Pi	ocesses for the a	SP management and	responsibilities for		
Standards	Quality Requirements (Note: this column is not present in the example of compilation on the Kion website)	Fundamental Processes	Sub-processes	Position/s of responsibility/ies in charge of the processes / sub- processes	Position/s of responsibility/ies collaborating at the processes / sub-processes management (optional)	Documentation *
		A1 -	Definition of the organisations representative of labour market to be consulted	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics
	A1 - Educational needs of the labour market	Identification of the educational needs of the labour market	Definition of the methods and schedule of the consultation	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics
)bjectives			Identification of the educational needs of the labour market	University / Labour Market Committee of the Bachelor in Physics		Minutes of the University / Labour Market Committee of the Bachelor in Physics
A - Needs and Objectives	A2 - Educational objectives	A2 - Definition of the educational objectives		Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics / Student's Guide
	۵3 - Learning	3 - Learning utcomes A3 - Definition of the learning outcomes	Definition of the learning outcomes	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics / Student's Guide
	A3 - Learning outcomes		Comparison with the learning outcomes of other study programmes of the same typology	European Network of Physics Institutions		ENPI Report "Characteristics of European Bachelors in Physics"
l process	B1 - Admission	B1 - Definition	Definition of qualifications and requirements for the admission to the SP	Ministry of Education, University and Research		Ministerial Decree 22 February 2011, n. 45
- Educational process	qualifications and requirements	admission qualifications and requirements	Assessment of the mastery of the admission requirements	Ministry of Education, University and Research		Ministerial Decree 22 February 2011, n. 45
Å			Definition of the criteria of admission	Ministry of Education, University and		Ministerial Decree 22 February 2011, n. 45

				Research		
			Definition of the curriculum	Council of the Bachelor in Physics	Design and Revision Commission of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics / Student's Guide
			Definition of the characteristics of the didactic units	Council of the Bachelor in Physics	Didactic Commission of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics / Student's Guide
	B2 - Design and planning	B2 - Design and planning	Definition of the characteristics of the graduation exam	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics/ Student's Guide
	of the educational process	of the educational process	Documentation of the suitability of the curriculum to the achievement of the expected learning outcomes	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics
			Definition of the criteria for students' progression in their studies	Council of the Bachelor in Physics		Minutes of the Council of Bachelor in Physics/ Student's Guide
			Definition of calendar and timetable of didactic units and exams	Council of the Physics Department		Minutes of the Council of the Physics Department
	B3 - Realization of	B3 - Realization of	Control of the correspondence of the development of the educational process with the designed and planned development	President of the Council of the Bachelor in Physics / Quality Presidium		Minutes of the Council of Bachelor in Physics / Web Site of the Bachelor in Physics
	the educational process	the educational process	Control of the adequacy of the assessment tests to the learning outcomes and of the correctness of the evaluation of the students' learning	-		-
sou	C1 - Teaching staff	C1 - Identification	Identification of the needs of teaching	Council of the Bachelor in		Minutes of the Council of

	and put at disposal of the	staff	Physics	Bachelor in Physics
	teaching staff	Put at disposal of the teaching staff	Council of the Physics Department	Minutes of the Council of the Physics Department
		Identification of the needs of teaching support staff	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
		Put at disposal of the teaching support staff	Council of the Physics Department	Minutes of the Council of the Physics Department
		Identification of the needs of classrooms	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
	C2 - Identification and put at disposal of facilities (in particular: lesson rooms, laboratories, libraries)	Put at disposal of classrooms	Council of the Physics Department	Minutes of the Council of the Physics Department
		Identification of the needs of rooms for individual study	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
		Put at disposal of rooms for individual study	Council of the Physics Department	Minutes of the Council of the Physics Department
C2 - Facilities		Identification of the needs of laboratories	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
		Put at disposal of laboratories	Council of the Physics Department	Minutes of the Council of the Physics Department
		Identification of the needs of libraries	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
		Put at disposal of libraries	Council of the Physics Department	Minutes of the Council of the Physics Department
C3 - Financial resources (optional)	s and put at	Identification of the needs of financial resources	Council of the Bachelor in Physics	Minutes of the Council of Bachelor in Physics
	financial	Put at disposal of	Council of the	Minutes of the

	resources	financial resources	Physics Department	Council of the Physics Department
		Organisation and management of student administrative office	Student Administrative Office of the University – Sector School of MPN Science	Web Site of the Student Administrative Office of the University
		Organisation and management of orienteering service for students in entrance	Orienteering Service for Students in entrance of the School of MFN Sciences	Web Site of the Orienteering Service for Students in entrance of the School of MFN Sciences
C4 - Student	C4 - Organisation and management	Organisation and management of tutoring service	Tutoring Service of the Physics Department	Web Site of the Tutoring Service or the Physics Department
support services	of student support (orienteering, tutoring and assistance) services	Organisation and management of service for the carrying out of training periods outside University	Service for the carrying out of training periods outside University of the School of MFNSciences	Web Site of the Service for the carrying out of training periods outside University of the School of MFNSciences
		Organisation and management of service for the students' international mobility	Service for the students' international mobility of the School of MFNSciences	Web Site of the Service for the students' international mobility of the School of MFNSciences
		Organisation and management of job placement service	Job Placement Service of the School of MFNSciences	Web Site of the Job Placement Service of the School of MFNSciences
	C5 - Establishment of partnerships with national and	Definition of the partnerships for carrying out training periods outside University	Council of the Physics Department	Minutes of the Council of the Physics Department / Student's Guide
C5 - Partnerships	international businesses, research institutions and other Higher Education Institutions for	Definition of the partnerships for carrying out international mobility periods	Council of the School of MFNSciences	Minutes of the Council of the School of MFNSciences / Student's Guide

	1	La			1	1
		the development of students' external education and mobility				
	D1 - Entrance students	D1 - Monitoring of the entrance students	Monitoring of the assessment of the mastery of the admission requirements (only for first cycle and integrated programmes)	Quality Presidium		Web Site of the Quality Presidium
			Monitoring of the enrolments in the first course year	Quality Presidium		Web Site of the Quality Presidium
	D2 - Students' learning	D2 - Monitoring of the students' learning		Quality Presidium		Web Site of the Quality Presidium
D - Monitoring and Results	D3 - Students' progression in their studies	D3 - Monitoring of the students' progression in their studies		Quality Presidium		Web Site of the Quality Presidium
	D4 - Students' opinion on the educational process	tudents' n on the is s	Monitoring of the students' opinion on the didactic units	Quality Presidium		Web Site of the Quality Presidium
			Monitoring of the students' opinion on the training periods outside University	Quality Presidium		Web Site of the Quality Presidium
			Monitoring of the students' opinion on the periods of international mobility	Quality Presidium		Web Site of the Quality Presidium
			Monitoring of the opinion of the final year students on the educational process and on the student support services	Quality Presidium		Web Site of the Quality Presidium
	D5 - Graduates'	D5 - Monitoring of the graduates'	Monitoring of the graduates' job placement	Quality Presidium		Web Site of the Quality Presidium
	placement	placement	Monitoring of the	Student		Web Site of the

			prosecution of the studies in the second cycle programmes (only for first cycle programmes)	Administrative Office of the University – Sector School MPNSciences		Student Administrative Office of the University
			Monitoring of the employed graduates' opinions on the education received	Quality Presidium		Web Site of the Quality Presidium
			Monitoring of the employers' opinion on the graduates' education (optional)	Quality Presidium	-	-
E - Management System for Quality	E1 - Policy and organization for quality assurance	E1- Definition of the policy and organization for quality assurance		Academic Senate		Document "Policy of the DoQuP University for the quality assurance of the study programmes" of the Academic Senate / Web Site of the Quality Presidium
	E2 - Management system of the study programme	E2- Definition of the management system of the study programme		Academic Senate / Quality Presidium		Web site of the Quality Presidium
	E3 - Revision	E3 - Revision		Council of the Bachelor in Physics	Design and Revision Commission of the Bachelor in Physics	Revision Report
	E4 - Publicity of information	E4 - Publicizing of information on the study programme		Council of the Bachelor in Physics	Didactic Comission of the Bachelor in Physics	Web Site of the Bachelor in Physics

* Indicate in which document the activities and/or the results of the process under consideration are registered.

—	Positions of responsibility	
Positions of responsibility *	Appointment **	Composition ***
Ministry of Education, University	_	
and Research		
Academic Senate	Statute, art. 15	See Staute, art. 15
Quality Presidium		
Evaluation Committee		
European Network of Physics Institutions		
Council of the School of MFN Sciences		
Council of the Physics Department		
President of the Council of the		
Bachelor in Physics		
Council of the Bachelor in Physics		
University / Labour Market		
Committee of the Bachelor in		
Physics		
Design and Revision Commission		
of the Bachelor in Physics		
Didactic Commission of the		
Bachelor in Physics		
Student Administrative Office of the		
University - Sector School of MPN		
Science		
Orienteering Service for Students in		
entrance of the School of MFN		
Sciences		
Tutoring Service of the Physics		
Department		
Service for the development of		
training periods outside University		
of the School of MFN Sciences		
Service for the students'		
international mobility of the School		
of MFN Sciences		
Job Placement Service of the		
School of MFN Sciences		

Positions of responsibility

* List all the positions of responsibility for the management of the SP.

** Indicate the document where the position of responsibility under consideration is appointed. *** Provide the composition of the position of responsibility under consideration (only in case of Commissions, Committees, Working Groups, etc.).

Revision Report - Year 2013		
Standard A - Needs and Objectives		
	ucational needs of the labour market	
Are the consulted	Strength and weakness points	
organisations representative		
of the production, services	Improvement actions	
and professions world and		
the methods and schedule of		
consultation adequate in		
order to identify the		
educational needs of the		
labour market?		
Have the educational needs	Strength and weakness points	
of the labour market of		
reference been identified in a	Improvement actions	
way useful to the definition of		
the educational objectives		
and of the learning outcomes		
of the SP, i.e. in terms of		
professional profiles and/or		
functions/roles/activities		
expected for the graduates		
and of the associated		
required competences?	usetienel shiestives	
Quality Requirement A2 - Edu		
Have the educational	Strength and weakness points	
objectives of the SP been		
established in terms of	Improvement actions	
professional profiles of the		
graduates and/or		
roles/activities students are		
to be prepared for and		
associated competences to		
be developed and obtained		
by the students during the		
learning process?		
Are the educational	Strength and weakness points	
objectives of the SP		
consistent with the mission of	Improvement actions	
the institution the SP belongs		
to and the educational needs		
of the labour market of		
reference?		
Quality Requirement A3 - Learning outcomes		
Have the learning outcomes	Strength and weakness points	
of the SP been established in		
terms of what students are	Improvement actions	
expected to know,	•	
understand and/or be able to		
demonstrate after completion		

of the advectional presson?	
of the educational process?	
Are the learning outcomes of the SP consistent with the	Strength and weakness points
established educational objectives?	Improvement actions
Are the learning outcomes of the SP comparable with the	Strength and weakness points
learning outcomes of other SPs of the same typology?	Improvement actions
	Standard B - Educational process
Quality Requirement B1 - Ad	mission qualifications and requirements
Are the qualifications and requirements for the	Strength and weakness points
admission to the SP	Improvement actions
adequate for a profitable	
participation of the students	
to the established	
educational activities, in	
particular of the first course	
year? Do the methods of	Strongth and weakness points
assessment allow to check	Strength and weakness points
the effective mastery of the	 Improvement actions
admission requirements by	Improvement actions
the students?	
	sign and planning of the educational process
Are the curriculum and the	Strength and weakness points
characteristics of the didactic	
units and of the graduation	Improvement actions
exam consistent with the	
established learning	
outcomes?	
Do the assessment methods	Strength and weakness points
and criteria provide evidence	
of their capacity to check the	Improvement actions
effective achievement of the	· · · ·
intended learning outcomes	
by the students and ensure	
trust that the level of	
achievement by the students	
is assessed in a credible	
way?	
Has the SP established	Strength and weakness points
appropriate criteria for the	
students' progression in their	Improvement actions
studies?	

Has the development of the	Strength and weakness points
educational process been	
planned in such a way that	
students are able to achieve	Improvement actions
the SP learning outcomes in	
the expected time, according	
to a gradual process and	
activities coherent and	
coordinated with each other?	
	alization of the educational process
Has the SP developed the	Strength and weakness points
educational process	
coherently with the designed	Improvement actions
and planned development?	
Does the SP control the	Strength and weakness points
development of the	
educational process, in order	Improvement actions
to check its correspondence	
with the designed and	
planned development?	Strongth and weakness points
Does the SP control the	Strength and weakness points
adequacy of the assessment	
tests to the learning	Improvement actions
outcomes and the	
correctness of the evaluation	
of the students' learning?	Standard C - Resources
Quality Requirement C1 - Tea	
Are the lecturers appointed	Strength and weakness points
according to pre-definite	Strength and weakness points
criteria of choice or	 Improvement actions
selection?	Improvement actions
Is the teaching staff	Strength and weakness points
quantitatively and	ouengui anu weakness points
qualitatively adequate for the	Improvement actions
achievement of the	•
established learning	
outcomes?	
Do the SP or the structure	Strength and weakness points
the SP belongs to offer the	ouchgur and weakness points
teaching staff the opportunity	Improvement actions
to improve their teaching	•
skills and reach acceptable	
standards?	
Is the teaching support staff	Strength and weakness points
qualitatively adequate for the	
achievement of the	Improvement actions
established learning	•
outcomes?	
Quality Requirement C2 - Fac	ilities

Are the facilities at disposal	Strength and weakness points	
of the SP, with the		
associated equipment,	Improvement actions	
quantitatively and		
qualitatively adequate for the		
development of the		
established educational		
activities with the established		
didactic methods?		
Quality Requirement C3 - Fin	ancial resources (optional)	
Are the financial resources at	Strength and weakness points	
disposal of the SP adequate		
for the development of the	Improvement actions	
educational process	····	
according to the designed		
and planned activities?		
Quality Requirement C4 - Stu	Ident support services	
Has the SP at disposal	Strength and weakness points	
student support (orienteering,		
tutoring and assistance)	Improvement actions	
services relevant to the		
educational process and able		
to make students' learning		
and studies progression		
easier?		
Quality Requirement C5 - Par	tnershins	
Are the partnerships with	Strength and weakness points	
public and/or private bodies		
for the carrying out of training	Improvement actions	
periods outside University	•	
adequate quantitatively and		
qualitatively to the		
achievement of the intended		
learning outcomes?		
Are the partnerships with	Strength and weakness points	
foreign Universities or other	ou ongan and weakness points	
Higher Education Institutions		
for the international mobility	Improvement actions	
adequate quantitatively and		
qualitatively to the		
achievement of the intended		
learning outcomes?		
	Standard D - Monitoring and Results	
Quality Requirement D1 - Entrance students		
Does the SP monitor the	Strength and weakness points	
entrance students in order to		
check their mastery of the	Improvement actions	
admission requirements?		
(only for the first cycle and		
integrated programmes)		
Do the results of the	Strength and weakness points	
	ouenyui anu weaniess pullis	

manifering of the entroped	
monitoring of the entrance	
students provide evidence of	Improvement actions
the SP attractiveness?	
Quality Requirement D2 - Stu	
Does the SP monitor the	Strength and weakness points
students' learning in order to	
check the effectiveness of	Improvement actions
the didactic units?	
Do the results of the	Strength and weakness points
monitoring of the students'	
learning in provide evidence	Improvement actions
of the effectiveness of the	
didactic units?	
Quality Requirement D3 - Stu	idents' progression in their studies
Does the SP monitor the	Strength and weakness points
students' progression in their	
studies (in particular:	Improvement actions
enrolments in the different	-
course years and dropouts,	
number of credits acquired at	
the end of each course year,	
time to graduation) in order to	
check the effectiveness of	
the educational process?	Other with an diversity of a sinte
Do the results of the	Strength and weakness points
monitoring of the students'	
progression in their studies	Improvement actions
provide evidence of the	
effectiveness of the	
educational process?	
	Idents' opinions on the educational process
Does the SP monitor the	Strength and weakness points
students' opinion on the	
educational process (in	Improvement actions
particular: students' opinion	
on the didactic units, on the	
training periods outside	
University, on the periods of	
international mobility; final	
year students' opinion on the	
educational process and on	
the student support services)	
in order to check the	
perceived adequacy and	
effectiveness?	
Do the results of the	Strength and weakness points
monitoring of the students'	
opinion on the educational	Improvement actions
process provide evidence of	
the adequacy and	

effectiveness of the	
educational process and of	
the student support services?	
	aduataa' alaaamaat
Quality Requirement D5 - Gra Does the SP monitor the	Strength and weakness points
	Strength and weakness points
graduates' placement (in	
particular: graduates' job	Improvement actions
placement, prosecution of the	
studies in the second cycle	
programmes by first cycle	
graduates (only for first cycle	
programmes), employed	
graduates' opinions on the	
education received,	
employers' opinion on the	
graduates' education	
(optional)) in order to check	
the qualification spendability,	
the correspondence of the	
SP educational objectives to	
and the adequacy of the SP	
learning outcomes for the	
educational needs of the	
labour market?	
Do the results of the	Strength and weakness points
monitoring of the graduates	· · · · · · · · · · · · · · · · · · ·
monitoring of the graduates placement provide evidence	Strength and weakness points Improvement actions
monitoring of the graduates placement provide evidence of the qualification	· · · · · · · · · · · · · · · · · · ·
monitoring of the graduates placement provide evidence of the qualification spendability, of the	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the	Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market?	Improvement actions Standard E - Management system for quality
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol	Improvement actions Standard E - Management system for quality icy and organization for quality assurance
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study	Improvement actions Standard E - Management system for quality
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance	Improvement actions Standard E - Management system for quality icy and organization for quality assurance
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective organization for the quality	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective organization for the quality assurance of study	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective organization for the quality assurance of study programmes?	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points Improvement actions
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective organization for the quality assurance of study programmes? Quality Requirement E2 - Ma	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points Improvement actions magement system of the study programme
monitoring of the graduates placement provide evidence of the qualification spendability, of the correspondence of the SP educational objectives to and of the adequacy of the SP learning outcomes for the educational needs of the labour market? Quality Requirement E1 - Pol Has the institution the study programmes belongs to a public quality assurance policy and an effective organization for the quality assurance of study programmes?	Improvement actions Standard E - Management system for quality icy and organization for quality assurance Strength and weakness points Improvement actions

management system,	Improvement actions	
through the identification of		
the processes for a		
management for quality of		
the SP and the definition of		
an adequate organisational		
structure?		
Quality Requirement E3 - Rev	vision	
Does the SP periodically	Strength and weakness points	
revise needs and objectives,		
educational process,	Improvement actions	
resources, results and	····	
management system, in		
order to guarantee their		
constant adequacy and		
effectiveness and promote		
the improvement of the		
effectiveness of the		
processes for the SP		
management and of the		
associated results?		
Quality Requirement E4 - Publicity of information		
Does the SP make public full,	Strength and weakness points	
up to date, easily acquired		
information, both quantitative	Improvement actions	
and qualitative, on SP		
objectives, educational		
process, resources, results		
and management system?		