PhD Programme in “Companies, Institutions and Behavioural Science”

Coordinator: Prof.ssa Rosella Tomassoni  
Tel. 0776/2993823  
e-mail: r.tomassoni@unicas.it

Available positions: 12  
Scholarships: 9 of which:  
- 8 with scholarships financed by the University  
- 1 with scholarship supported by INPS in favour of children and orphans of people enlisted in the Unitary Management of credit and social benefits, and of retired subjects enlisted in the Public Employees Management, on the subject “A multidisciplinary approach to emerging environmental contaminants found in sewage: biodegradation, ecotoxicity, and advanced oxidation treatment (for the requisites and the modalities see art 1 of the present call).”

Positions without scholarship: 3

Length of course: 3 years

Curriculum | Research Topics
---|---
1) Institutions and Enterprise
This project centres on the relationship between collective and individual behaviour, on the one hand, and the organisation of institutions and economic activity on the other.  
Activities are characterised by their multidisciplinary nature through the integration of social, economic, business and legal perspectives with respect to themes of behaviour and organisation. The aim is to provide a multidisciplinary and interdisciplinary knowledge of both content and research methods.  
This curriculum allows PhD students to acquire new competences and offers a solid specialisation for professionalism aimed at research and/or professions requiring advanced scientific skills.  
In this specialisation mainly methodologies from the legal, business and management sciences are used to investigate the variety of ways in which businesses can create and defend competitive advantages, also with reference to the theme of quality.

2) Behavioural Economics
This project centres on the relationship between collective and individual behaviour, on the one hand, and the organisation of institutions and economic activity on the other.  
Activities are characterised by their multidisciplinary nature through the integration of social, economic, business and legal perspectives with respect to themes of behaviour and organisation. The aim is to provide a multidisciplinary and interdisciplinary knowledge of both content and research methods.  
This curriculum allows PhD students to acquire new competences and offers a solid specialisation for professionalism aimed at research and/or professions requiring advanced scientific skills.  
In this specialisation there is a prevalence for interest in economic and quantitative analysis of topics linked to behavioural economics, enterprise, the organisation of (national and international) markets and the territory.

3) Behavioural Science
This project centres on the relationship between collective and individual
behaviour, on the one hand, and the organisation of institutions and economic activity on the other. Activities are characterised by their multidisciplinary nature through the integration of social, economic, business and legal perspectives with respect to themes of behaviour and organisation. The aim is to provide a multidisciplinary and interdisciplinary knowledge of both content and research methods.

This curriculum allows PhD students to acquire new competences and offers a solid specialisation for professionalism aimed at research and/or professions requiring advanced scientific skills.

In this specialisation the relationship between human cognition and behaviour motivation is studied both in individuals and in collective and organisational contexts, as well as creative, artistic and emotional processes.

4) Business and Environment

The project focuses on the relations between individual and collective behaviours, on the one hand, and the organization of institutions and economic activities on the other. The project is multidisciplinary, integrating social, economic, business and juridical perspectives on social behaviour and on organization. The goal is to provide a multidisciplinary and transversal knowledge both in contents and in research methods.

The present curriculum allows doctoral students to acquire new skills and offers strong professional specialization oriented towards research and or professions requiring advanced scientific competences.

Within this framework, the behaviour of businesses is studied, using the methods of economic, business and management disciplines. Attention is given to the ways in which businesses can generate and defend competitive advantages, also in reference to the questions of environment and quality.

Entrance Qualifications:

- all lauree specialistiche/magistrali (in the case of qualifications from abroad, an equivalent qualification)

Documentation to be attached to the Application

- curriculum (to be produced following the guidelines attached to the call for candidatures and available on the University website: Attachment “B”);
- certification or self-certification of a laurea specialistica/magistrale (master's/specialist degrees) with the grade obtained
- research project (to be compiled following the requirements set out in the call for applications – “Attachment “C” available on the University website)
- letters of presentation (not less than 1 and no more than 2).

Other assessable Qualifications

- other publications with ISBN or ISSN (published in the last three years, with a max number of 2);
- other qualifications (further qualifications other than the entrance requisites will be considered, such as: degree certificates, Masters’s degree certificates, specialization and/or advanced courses, postgraduate formation courses, documented participation in research projects)

Selection Procedures:

The admission exam consists of two exams: an entry test and an oral examination. The entry test consists of the evaluation of the following:

- certification or self-certification of a laurea specialistica/magistrale
- research project
- other publications with ISBN or ISSN (published in the last three years, with a max number of 2);
- other qualifications
In order to be admitted to the oral exam the candidate has to pass the entry test with a minimum score of 40/60.

**Oral exam**
The oral exam will examine the candidate's characteristics and his capacities for scientific research in the chosen field, as well as his knowledge of English. The oral examinations can also be in English upon explicit request of the candidate in the application form. Instead of English, foreign candidates will have to demonstrate an adequate knowledge of Italian.

### Assessment criteria:

The candidates will be assessed on two criteria:
1) entry test (maximum 60 points);
2) oral exam (maximum 60 points).

The overall score is therefore maximum 120 points. More specifically:

The overall score is 120. More in detail:

1) The preselection test leads to the oral test and is evaluated by the commission on the basis of the following elements:
   a) Grades obtained at university and other scientific titles (from 0 to 25 points, of which max. 20 points for university degree (laurea);
   b) Research project (from 0 to 27 points).
      The evaluation of the research project will be carried out according to the following criteria:
      - method and originality of the research project
      - compliance with the requirements of the model
      - consistency with the subject of the chosen curriculum.
   c) other publications with ISBN or ISSN (*published in the last three years, with a max number of 2*) (from 0 to 4 points);
   d) presentation letters, at least 1 and not more than 2 (from 0 to 4 points);

**List of titles offering points in the preselection**
The following qualifications will be evaluated for a maximum score of 60 points distributed as follows:

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laurea specialista/magistrale – grade</td>
<td>66 up 99</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>100 to 102</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>103 to 105</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>106 to 110</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>110 cum laude</td>
<td>20</td>
</tr>
<tr>
<td>Other qualifications</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>Max. 25</strong></td>
</tr>
<tr>
<td>Research project</td>
<td></td>
<td><strong>Max. 27</strong></td>
</tr>
<tr>
<td>other publications with ISBN or ISSN (<em>published in the last three years, with a max number of 2</em>)</td>
<td></td>
<td><strong>Max. 4</strong></td>
</tr>
<tr>
<td>Letters of presentation (not less than 1 and no more than 2)</td>
<td></td>
<td><strong>Max. 4</strong></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>Max. 60</strong></td>
</tr>
</tbody>
</table>

With reference to the laurea specialista/magistrale, in case of possession of more than one degree, the relative scores cannot be cumulated: only the qualification with the highest grade will be considered.
In order to be admitted to the oral exam the candidate has to pass the entry test with a minimum score of 40/60.

2) The oral test will be done in presence and evaluated with a score from 0 to 60 points; the minimum score is 40/60.

The following criteria will be used to assess the oral exam:
- possession of basic formation and essential research methodologies for the chosen curriculum
- level of knowledge of the subject;
- clarity
- coherency;
- critical thinking skills of analysis and synthesis.

Knowledge of English language is required and will be subject to verification.

The sum of the marks obtained in the qualification assessment in the entry test and in the oral exam determines the ranking of merit, for a maximum of 120 points divided as follows: entry test max 60 points, oral exam max 60 points.

**Subjects included in the exam**
Economics, Legal andBehavioural disciplines.
The exams aim to assess the candidate’s knowledge and aptitude towards scientific research.

**Location of the entry examinations**
Dipartimento di Economia e Giurisprudenza, Campus Folcara, località Sant’Angelo, 03043 Cassino (FR)

**Date of examinations**

<table>
<thead>
<tr>
<th>Examination Dates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and result of the entry test</td>
<td>22\textsuperscript{nd} September 2020</td>
</tr>
<tr>
<td>Date of the oral examination</td>
<td>24\textsuperscript{th} September 2020, 10:00 to.m.</td>
</tr>
<tr>
<td>Location of oral examination</td>
<td>Dipartimento di Economia e Giurisprudenza, Campus Folcara, località Sant’Angelo, 03043 Cassino (FR)</td>
</tr>
<tr>
<td>Publication of final merit ranking lists</td>
<td>by 10\textsuperscript{th} October 2020</td>
</tr>
</tbody>
</table>

The results and the final ranking list will be published at the following address:


**Information about teaching methods**

**PhD Course in “Literary and Historical Sciences in the Digital Age”**

**Coordinator:**

Prof. Gianluca Lauta  
Tel. 0776/2993877  
e-mail: gianluca.lauta@unicas.it

| Total number of positions available | 5 |
| Scholarship/grants                  | 4 with scholarships financed by the University |
| Positions without a scholarship     | 1 |
| Duration of course:                | 3 years |

**Curriculum**

1) Historical and philological-literary studies on the ancient and medieval world  

The curriculum aims to provide formation in historical and philological-literary research on ancient and medieval texts, the production, writing and decoration of manuscripts and the cataloguing techniques of codices and documents, with reference to the use of the principal technologies of Digital Humanities.

2) Italian and European historical-literary philological and linguistic studies  

The curriculum aims to provide formation in historical-literary, linguistic and philological research in Italian, French, English and Anglo-American literature with intertextual and comparative methodologies and consideration of literary theory and criticism with reference to the use of the principal technologies of Digital Humanities.

3) Historical studies  

The curriculum 'Historical studies' offers training in historical research in modern History, contemporary History, History of international relations, with special attention for historiographic turning points, historical methods, critical use of sources.

**Admission requirements:**

All Specialist/Master degrees (or valid equivalent foreign degrees)

**Mandatory documentation to be attached to the application (failure to do so will result in exclusion)**

- curriculum (to be complied in accordance with the guidelines attached to the call for applications – “Attachment B” available on the University website)
- research project (to be compiled following the requirements set out in the call for applications – “Attachment D” available on the University website)

**Additional eligible qualifications**

- publications (no limit to number)
- other qualifications (further qualifications other than the entrance requisites will be considered, such as: degree certificates, Masters's degree certificates, specialization and/or advanced courses, postgraduate formation courses, documented participation in research projects)

**Selection procedures**

The admission exam consists of a proficiency test and an oral examination.

The judgment of the commission is based on the following elements: curriculum, research project, publications, other scientific titles, and is expressed on a 0-60 / 60 scale. The minimum passing score is 40/60.
The oral examination requires the physical presence of the candidate. It will be assessed with a grade out of 60. The passing grade is 40/60. The sum of the grades of the proficiency test and oral examinations will provide the final grade for a place in the merit ranking list.

The oral exam will be held in Italian and will test the knowledge of the subject of the written paper with reference to the most significant Italian and foreign academic literature and the fundamental historical, literary-historical, philological, linguistic and palaeographic-codicological methodologies according to the chosen curriculum. It will also assess the full competence on the part of the candidate of the themes contained in the research project.

The oral presentation will also establish the knowledge of the foreign language (English or French) indicated by the candidate on the application forms. Instead, foreign students will be required to prove adequate proficiency in the Italian language.

Evaluation criteria:

a) The evaluation of the curriculum and of the research project (60 points); b) oral exam (60 points). The overall score is 120. More in detail:

1) The following criteria will be used to assess the curriculum and research project:
- characteristics and quality of previous learning experiences and research and of any publications consistent with the topics of the chosen curriculum (30 points)
- methodological approach and originality of the research project, adherence to the specific requests in the “Attachment D” form, consistency with the topics of the chosen curriculum (30 points)

2) The following criteria will be used to assess the oral exam:
- possession of basic formation and essential research methodologies for the chosen curriculum and for the specific disciplines connected to the research project submitted (30 points)
- effectiveness of the presentation of the research project (30 points)

Exam topics

Curriculum for Historical and philological-literary studies on the ancient and medieval world
- Latin Language and Literature
- Greek language and Literature
- Transmission of Greek and Latin Classical Texts
- Textual Criticism
- Philological Terminology
- Latin Palaeography
- Greek Palaeography
- Codicology
- Roman History
- History of Miniature
- Musical Palaeography

Curriculum for Italian and European Historical-Literary, Philological and Linguistic Studies*

A) Italian Studies
- Italian Literature
- Italian Linguistics

B) Anglistics
- English Language and Literature
- Anglo-American Language and Literature

C) French Language and Literature
**Curriculum historical studies**
- Modern history
- Contemporary history
- History of international relations

*The candidate may choose one of the three fields for the oral exam*

**Location of the entry examinations**
Dipartimento di Lettere e Filosofia, via Zamosch 43, Cassino

**Exam Calendar**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publication of proficiency test results</td>
<td>14th September 2020</td>
</tr>
<tr>
<td>Date of oral examination</td>
<td>28th Settembre 2020, 10.00 a.m.</td>
</tr>
<tr>
<td>Location of oral examinations</td>
<td>Dipartimento di Lettere e Filosofia, Via Zamosch 43, Cassino</td>
</tr>
<tr>
<td>Publication of final merit ranking list</td>
<td>by 10th October 2020</td>
</tr>
</tbody>
</table>

The results and the final ranking list will be published at the following address:

**Information on didactic activities**
**Ph D Programme in "Methods, Models and Technologies for Engineering"**

**Co-ordinator:**
Prof. Wilma Polini  
Tel. 0776-2993679  
e-mail: polini@unicas.it

**Total number of positions available:**
14

**Positions with scholarships:**
11 of which:
- 8 with scholarships financed by the University, of which 1 on a topic inherent to the field of "Intelligent distributed systems"
- 2 with scholarships financed by the Project of Excellence of Electrical and Information Engineering "Maurizio Scarano" Department on topics inherent to the field of "Intelligent distributed systems"
- 1 with scholarship supported by INPS in favour of children and orphans of people enlisted in the Unitary Management of credit and social benefits, and of retired subjects enlisted in the Public Employees Management, on the subject "Perspectives on the use of LNG in the end-use chain in Southern Latium and Sardinia" *(for the requisites and the modalities see art 1 of the present call)*.

**Positions without scholarships:**
3

**Length of the course:**
3 years

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Research Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Civil and Environmental Engineering</td>
<td>The course aims to train highly qualified technical and scientific experts in the topics of basic and applied research of interest for Civil and Environmental Engineering. It is intended to train researchers who are capable of independently setting up and managing processes of technological innovation in the field of construction and infrastructure, in guided design and in the management and maintenance of the works and the territory, both in private practice, in public administrations and with contractors and service companies.</td>
</tr>
<tr>
<td>2) Information Engineering:</td>
<td>The course aims to train highly qualified technical and scientific experts in the topics of basic and applied research of interest for Information Engineering. It is intended to train researchers who are capable of independently setting up and managing processes of technological innovation in the field of technologies and methods of elaboration, process and transmission of information, combining systemistic skills with the knowledge of basic physical phenomena involved in the different technologies as well as with the testing and experimental validation of the reliability of models.</td>
</tr>
<tr>
<td>3) Electrical Engineering</td>
<td>The course aims to train highly qualified technical and scientific experts in the topics of basic and applied research of interest for Electrical Engineering. It is intended to train researchers who are capable of independently setting up and managing processes of innovation in the field of analysis methodologies, measurement, control and machine design, systems and electrical devices.</td>
</tr>
<tr>
<td>4) Mechanical and Management Engineering</td>
<td>The course aims to train highly qualified technical and scientific experts in the topics of basic and applied research of interest for Mechanical and Management Engineering. It is intended to train researchers who are capable of independently setting up and managing processes of innovation in the field of configuration and system programming at highly automated content, the planning and control of processes and production systems, the</td>
</tr>
</tbody>
</table>
The course aims to train highly qualified technical and scientific experts in the topics of basic and applied research of interest for Environments and Technologies for Motor Activity and Health. It is intended to train researchers who are capable of independently setting up and managing processes of innovation in the field of anatomical and biochemical awareness with the intent of understanding the basic functions of the human body in movement as well as the psychological aspects that can motivate attention to the body and the propensity to sport and motor activity.

Qualification requisites for admission:
The following laurea specialistica/magistrale (master's/specialist degrees), or equivalent titles, in case of a qualification obtained abroad:
LM-4 Architecture and Construction and Architectural Engineering
LM-4 c.u. Architecture and Construction and Architectural Engineering (5 years)
LM-17 Physics
LM-18 Computer Science
LM-20 Aerospace Engineering and Astronautics
LM-21 Biomedical Engineering
LM-22 Chemical Engineering
LM-23 Civil Engineering
LM-24 Engineering Building Systems
LM-25 Automation Engineering
LM-26 Safety Engineering
LM-27 Telecommunications Engineering
LM-28 Electrical Engineering
LM-29 Electronic Engineering
LM-30 Energy and Nuclear Engineering
LM-31 Management Engineering
LM-32 Computer Engineering
LM-33 Mechanical Engineering
LM-34 Marine Engineering
LM-35 Environmental and Territorial Engineering
LM-40 Mathematics
LM-51 Psychology
LM-53 Science and Material Science Engineering
LM-55 Cognitive Sciences
LM-67 Sciences and Techniques of Preventative and Adapted Physical Activities
LM-68 Science and Sport Techniques
LM-74 Geological Sciences and Technologies
LM-79 Geological Sciences
20/S (specialist in Physics)
23/S (specialist in Computer Science)
25/S (specialist in Aerospace Engineering and Astronautics)
26/S (specialist in Biochemical Engineering)
27/S (specialist in Chemical Engineering)
28/S (specialist in Civil Engineering)
29/S (specialist in Automation Engineering)
30/S (specialist in Telecommunications Engineering)
31/S (specialist in Electrical Engineering)
The following degrees are admissible only for access to curriculum 5) Environments and technologies for motor activity and health:
LM-51-Psychology
LM-55-Cognitive Sciences
LM-67-Sciences and Techniques of Physical and Adapted Activities
LM-68-Science and Sport Techniques
76/S (specialist in Sciences and Techniques of Physical and Adaptive Activities)

Documentation to be attached mandatorily to application (failure to produce said documentation will result in exclusion).

The applicant is required to apply and submit on-line, under penalty of exclusion from admission, the following documentation:

- curriculum (to be produced following the guidelines attached to the call for candidatures and available on the University website: Attachment “B”);
- an appropriate certification that includes an official academic transcript of the entire university course study, with a list of university exams and grades, the final grade of graduation of both the first and second level degrees, or the Vecchio Ordinamento degree or the equivalent university degrees for foreign students;
- research project (to be prepared as requested in the form available on the University website: Attachment “E”);
- letters of presentation (not less than 2 and no more than 4).

Additional assessable qualifications

Additional assessable qualifications:
- publications (maximum 5).

Procedure for the selection process of candidates:

The admission exam consists of two exams: an entry test and an oral examination.

The entry test consists of the evaluation of the following:
- curriculum;
- publications (maximum 5);
- other scientific qualifications (qualifications on the curriculum that might be useful for the assessment of the curriculum, among which must mandatorily include appropriate certification regarding the grades received in the examinations in the entire university course study, including, the final grade of graduation of both the first and second level degrees, or the Vecchio Ordinamento degree, or the equivalent university degrees for foreign students);
- research project;
- presentation letters (not less than 2 and no more than 4).

The oral examination evaluates the candidate's predisposition for carrying out research in one of reference disciplinary sectors of the PhD programme and the candidate's knowledge of the English language.

On request of the candidate and in the presence of adequate reasons, including the candidate's residence in a foreign country, the oral examination can also be done online. The procedure chosen
must be specified by the candidate in the application form. The oral examinations can also be in English upon explicit request of the candidate in the application form. In the application form, candidates must necessarily provide an e-mail address which will be used by the University to inform the candidate about his/her evaluation of qualification, and for those who have chosen the online oral examination, to receive instructions for the oral examination.

Evaluation criteria:
The entry test will be evaluated from 0 to 60 points, taking into consideration the following aspects:
- Curriculum vitae, grades obtained in the university course and any other scientific qualifications (from 0 to 25 points);
- Publications, max 5 (from 0 to 5 points);
- Research project (from 0 to 25 points);
- Letters of presentation (from 0 to 5 points).
In order to be admitted to the oral exam the candidate has to pass the entry test with a minimum score of 40/60.
The oral exam will be evaluated from 0 to 60 points, taking into consideration the following aspects:
- The candidate's aptitude for carrying out research activities, even in an autonomous form (from 0 to 20 points);
- Ability to speak properly (from 0 to 20 points);
- Ability to analyze and summarize (from 0 to 20 points).
Knowledge of English language is required and will be subject to verification. The minimum score to pass the oral exam is 40/60.
The merit ranking is determined by the sum of the scores obtained in the entry test and the oral test.

Exam Topics
Exam topics cover the degree courses listed previously in "Qualification requisites for admission".

Location of the Admission Test
Area didattica di Ingegneria - Sala del Consiglio – Via G. Di Biasio, 43 - Cassino

Examination Dates
Date and result of the entry test: 22nd September 2020
Date of the oral examination: 29th September 2020, 10:00 a.m.
Location of oral examination: Area didattica di Ingegneria – Sala del Consiglio – Via G. Di Biasio, 43 – Cassino
Publication of final merit ranking lists: by 10th October 2020
The results and the final ranking list will be published at the following address:

Information on teaching activities