The 2018/2019 Second Level Master Course in “Protection against CBRNe Events” (Advanced Course) is hereby officially announced. The Master Course is organised by the Industrial Engineering Department and the School of Medicine and Surgery of the University of Rome Tor Vergata.

AIMS
This Master Course – held in English by International subject-matter experts and lecturers – aims at standardising the education and training of “CBRNe Advisors for Decision Makers” – at least in Europe – in the following areas:

- CBRNe (Chemical, Biological, Radiological, Nuclear, explosive-related) risk;
- Analysis of CBRNe Agents;
- Effects of CBRNe Agents;
- Contaminants spreading and dispersion patterns;
- Numerical analysis in planning CBRNe emergency actions;
- CBRNe detection methods, techniques, and equipment;
- CBRNe protection;
- CBRNe decontamination of personnel;
- CBRNe decontamination of environment, equipment, and infrastructure;
- International response system in case of CBRNe events;
- Medical first aid;
- Emergency psychology for CBRNe events;
- Critical infrastructures and CBRNe risk;
- Preventing, countering, repressing, and investigating cases of involuntary and/or voluntary release of CBRNe agents;
- Investigation and communication in case of CBRNe events.

Hence, this Master Course aims at providing participants with technical, theoretical, and operational tools required to take action in the new, 21st Century CBRNe risk scenario.

The Master Course takes place under the formal agreements and with the cooperation of:
- The Prime Minister’s Office;
- The Italian Ministry of Defence;
- The Italian Ministry of the Interior;
- The Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)
- The National Institute for Geophysics and Volcanology;
- The National Health Institute (ISS);
- SOGIN S.p.A.

and with the support of outstanding companies operating in the safety and security fields (for more information, please refer to the website www.mastercbnr.com).

**STRUCTURE**

The Master Course consists of Modules and Internships, for a total duration of one academic year. However, depending on each individual plan, it could last up to three years.

The overall educational and training activities will account for 60 ECTS points, that is, a total of 1,500 hours, 390 hours of which shall consist of classes and lectures.

Moreover, each student shall devote at least:
- 50 hours to operational laboratory activities, supported by teachers of University of Rome Tor Vergata and external experts and tutors;
- 50 hours of workshops, held by University of Rome Tor Vergata and external subject-matter experts.

Furthermore, each student shall carry out a 200 hours internship at one of the supporting organisations and companies, under the supervision of a personal tutor. Besides, all students shall write and defend a Master Thesis.

The lectures are scheduled in 9 didactic modules to be held in one week per month to allow students who work to attend the course more easily. A discretionary orientation module, which will have a duration of three days (24 hours), will be organized in the edition of this announcement. This module is focused on the evolutions of the young people's and international job market, on the new legislative deeds of active policies, on the creation of companies and on auto-employment, on individual placement skills and on continuous formation paths in the field of CBRNe safety & security. A module, compulsory for INPS Master "J" and Master "Exe" scholarship holders and discretionary for the others, of a total duration of 36 hours to provide expertise in writing technical reports and theses and in doing a literature search.

The hours of lessons, laboratory work and stage activities are organized as follows:

<table>
<thead>
<tr>
<th>Modules</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBRNe threats between past and current challenges</td>
<td>4</td>
</tr>
<tr>
<td>International cooperation for crises, emergencies and disasters</td>
<td>5</td>
</tr>
<tr>
<td>preparedness and management</td>
<td></td>
</tr>
<tr>
<td>Management of Chemical releases scenarios</td>
<td>5</td>
</tr>
<tr>
<td>Management of Nuclear events and Radiological scenarios</td>
<td>5</td>
</tr>
<tr>
<td>Management of outbreaks and Biological releases scenarios</td>
<td>5</td>
</tr>
<tr>
<td>Crisis and emergency risk communication</td>
<td>4</td>
</tr>
<tr>
<td>Investigation</td>
<td>4</td>
</tr>
</tbody>
</table>
CBRNe events management 4
Table Top Exercise for crises, emergencies, disasters and CBRNe events management 5
Internship 13
Final Thesis 6
**Total** 60

**ADMISSION CRITERIA**
This Master Course targets people with a MSc Degree or a Bachelor’s Degree in technical-scientific disciplines + 2 years 120 ECTS relevant Master course, or any title considered as equivalent for admission purposes by the Board of Industrial Engineering Department. It also targets people with a 3+2 University education in other disciplines, to be authorised by the Master’s Steering Committee. The Master’s Steering Committee might also recognise other vocational certified training and practical activities carried out by applicants after obtaining the Degree(s) allowing them to participate in the Master Course (including individual courses attended in the framework of wider educational programmes), if they are consistent with the subject matters of the Master Course. Such activities might be attributed a number of ECTS points – up to a maximum of 20 – which the relevant student could use to obtain the final ‘2nd Level Master Course in Protection against CBRNe events (60 ECTS) Degree’.
The CBRNe Master Course shall have a maximum of 40 and a minimum of 16 participants. Applicants that wish to register for this Master Course cannot be simultaneously attending any other university course.
An excellent level of English is required.

**APPLICATIONS**
Candidates shall be admitted based on the assessment of their CVs by the Master Steering Committee, according to the selection criteria reported in Annex A.

The person responsible for the procedure is the CBRNe Master Courses Coordinator, Dr. Pasqualino Gaudio – Dept. of Industrial Engineering, University of Rome Tor Vergata, via del Politecnico, 1, 00133 Rome.

Applicants are required to pre-register online by **February 28th, 2019**, by filling in the attached application file and sending it to the mail address: info@mastercbrn.it together with the following records:
- resume;
- Master Degree self certification, showing the marks obtained for each exam and the final grade.

For all foreign students each qualification must be officially accompanied by a “Declaration of value” (Certificate of Equivalence of Qualification), issued by the Italian Embassy in the country where the qualification was awarded.

**The list of admitted applicants** shall be published on **March 8th, 2018**, on the [http://www.uniroma2.it](http://www.uniroma2.it) and [www.mastercbrn.com](http://www.mastercbrn.com) websites together with the instructions for the tuition fee payment.

**FEES AND CHARGES**
The overall tuition fee and charges amount to € 7,146.00, which shall be paid as follows:
- € 3,646.00 upon registration, by March 20th, 2019 (including € 16,00 for tax stamp and € 130,00 for parchment);
- € 3,500.00 by September 20th, 2019.

Students admitted have to register by March 20th, 2019.

Should a student’s personal plan last longer than one academic year, the student under consideration shall pay an additional € 1,016,00 fee (including all charges) for each additional year after the first one.

Auditors can be admitted providing that the number is less than of 20% of all participants, upon a payment of € 5,016,00 tuition fee (including tax stamp) divisible in 2 instalments in the above-mentioned modalities.

Students can attend single modules of the course. The tuition fees for the application to the single module are the following:

<table>
<thead>
<tr>
<th>Modules*</th>
<th>Tuition fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBRNe threats between past and current challenges</td>
<td>1.000 €</td>
</tr>
<tr>
<td>International cooperation for crises, emergencies and disasters preparedness and management</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Management of Chemical releases scenarios</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Management of Nuclear events and Radiological scenarios</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Management of outbreaks and Biological releases scenarios</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Crisis and emergency risk communication</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Investigation</td>
<td>1.000 €</td>
</tr>
<tr>
<td>CBRNe events management</td>
<td>1.000 €</td>
</tr>
<tr>
<td>Course at OPCW</td>
<td>1.600 €</td>
</tr>
</tbody>
</table>

* Modules may undergo some minor changes.

For the application to a single module the deadline is February 28th, 2019

SPECIAL TERMS
Students with at least 66% certified and documented disability shall only pay € 466, that is, 5% of the overall fees and charges.
People who meet the aforesaid requirements, shall include the relevant information in their Applications.
After being communicated their admission, they shall then hand in the records attesting their disability to the Master Course Secretariat.

The Faculty Board may – in compliance with the provisions of the Internal Rules – grant special financial terms to individual students.
Classes of the Master Course in Protection against CBRNe Events shall start on March 18th, 2019.

ATTENDANCE AND FINAL DEGREE
Students shall attend at least 80% of all classes, lectures and activities. The final Degree shall only be obtained by students who have attended at 80% of all classes, lectures and activities and passed the Module-related and final exams. At the end of the Master Course, all students who have attended at least 80% of all classes, lectures and activities, have passed the Module-related exams as well as the final exam (with Thesis and dissertation), and have duly paid all fees and charges, shall obtain the educational qualification “2nd level University Master Course in Protection against CBRNe Events (60 ECTS)” (Master Universitario di II livello in Protezione da Eventi CBRNe under the Italian Law). All students shall defend the Thesis within the last session of the first Academic Year following the latest registration year. After that, it will not be possible to obtain the Degree.

TIMELINE
To download the timeline of the course, please click [here](#).

INFORMATION
For information, please contact:

- Master Course Secretariat: [info@mastercbrn.it](mailto:info@mastercbrn.it). Telephone: +39 0672597201 (Monday through Friday from 9:00 a.m. to 1:00 p.m.)

Rome, January 30th, 2019
ANNEX A

Admission Criteria

The criteria for the admission to the 2\textsuperscript{nd} Level Master Course in Protection against CBRNe events (a.y. 2017/2018) include the assessment of qualifications focusing on the following aspects:

- Assessment of resume and qualifications awarded;
- Assessment of the real interest towards the main topics of the course through the analysis of the work experience.

Mainly, assessment will be based on the following indicators:

<table>
<thead>
<tr>
<th>INDICATORS</th>
<th>SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark of degree (up to 110)</td>
<td></td>
</tr>
<tr>
<td>110 with honours</td>
<td>40</td>
</tr>
<tr>
<td>106-110</td>
<td>36</td>
</tr>
<tr>
<td>101-105</td>
<td>32</td>
</tr>
<tr>
<td>104-100</td>
<td>28</td>
</tr>
<tr>
<td>99-80</td>
<td>24</td>
</tr>
<tr>
<td>80-66</td>
<td>20</td>
</tr>
<tr>
<td>English Language Level of knowledge</td>
<td>0-10</td>
</tr>
<tr>
<td>Further qualifications concerning the main subjects of the Master Course</td>
<td>0-25</td>
</tr>
<tr>
<td>Work experience</td>
<td>0-25</td>
</tr>
</tbody>
</table>

In case of equal score, priority is given to the youngest candidate.