

# Summers school details at

## University of Tor Vergata, Rome, Italy

### Coordinator of the Summer Course

Donato Abruzzese, prof.

[www.linkedin.com/in/donato-abruzzo-71220710/](http://www.linkedin.com/in/donato-abruzzo-71220710/)

### Teachers/Supervisors

1-Donato Abruzzese, prof.

[www.linkedin.com/in/donato-abruzzo-71220710/](http://www.linkedin.com/in/donato-abruzzo-71220710/)

2- Andrea Micheletti, prof.

[www.researchgate.net/profile/Andrea-Micheletti-3](http://www.researchgate.net/profile/Andrea-Micheletti-3)

3 -Alessandro Tiero, prof.

<https://art.torvergata.it/simple-search?query=tiero&needescape=1>

4- Pierluigi Abiuso, Dr. PhD.

[www.linkedin.com/in/pierluigi-abiuso-620266a5/](http://www.linkedin.com/in/pierluigi-abiuso-620266a5/)

5- Daniele Sansoni, Dr. PhD.

[www.linkedin.com/in/daniele-sansoni-1a9641170/](http://www.linkedin.com/in/daniele-sansoni-1a9641170/)

### Daily Assistants/Instructors

1. Sreymom VUTH, MS Civil Engineer

[www.linkedin.com/in/srey-mom-vuth-a5ab1784/recent-activity/](http://www.linkedin.com/in/srey-mom-vuth-a5ab1784/recent-activity/)

2. Davide Bracale, MS Civil Engineer

3. Carlo Marocchini, MS Civil Engineer

### Subjects and lectures

3 lecture by prof. Abruzzese (a)

3 lecture by prof. Micheletti (b)

3 lecture by prof. Tiero (c)

3 lecture by Dr. Abiuso (d)

3 lecture by Dr. Daniele Sansoni (e)

7 sessions of practicing activities (e) by the instructors.

The lectures and the sessions last 2 conventional hours (1h40') each-

Total time for lectures and sessions:44 hours.

## **Lectures scheduling:**

First week:

2 lectures in the morning – Thu Thur Fri -> 12 hours

1 afternoon practicing sessions - Thu Wed Thur ->4 hours

Second week:

2 lectures in the morning – Mon Thu Thur -> 12 hours

1 afternoon practicing sessions - Mon Thu ->4 hours

Third week:

1 lecture in the morning – Mon Thu Thur-> 6 hours

1 afternoon practicing sessions - Mon Thu Thur ->6 hours

Forth week

Project preparation.

Plenary session Presentation of the projects.

Closing ceremony. Certificate distribution.

## **Details of the lectures and didactic activity.**

- (a) Introduction to professional structural design: Seismic Design
- (b) Some topic inside the basic mechanics
- (c) Strength of material and relations with the structural elements
- (d) Introduction to the correct computational methods
- (e) Architectural composition inside the structural safety : Architectural Design

## **Description of the didactic application and practicing**

The student will be in group of 3 or 4, including both students from the architectural and civil engineering curriculum.

The teachers will assign a theme to each group and the students will develop it collaboratively. The instructors will guide the groups in carrying on the project. For this activity more 6 hours by the instructors are foreseen.

## **Other activities scheduling**

First week

Introduction to Italy and Roman history and architecture Mon ->3 hours

Visit to some emblematic monumental architecture of Roman time Wed -> all the morning

Second week

Introduction to Italian modern architectures and structures

Visit to some emblematic modern architecture in Rome Wed -> all the morning

Third week

Visit to Ostia Antica – archaeological area of the city of Rome near the sea. By bus -> all the morning.

Visit to Rome Walls Museum, located in one of the old roman masonry gate of the original city.

*It is expected that the students already have some knowledge related to the architecture subjects and to the structural design. It will be better to receive and give lectures to at least 3<sup>rd</sup> grade completed students.*

*Period of the Summer Course . June 20-July 20*