ADVANCED DATA ANALYTICS

Report on study visit to Roma, 18-20 November 2019

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Abstract	This is the report on study visit of Serbian representatives to University Tor Vergata in Rome, in order to learn about development of master study program in the field of data science and business analytics.

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Day I (18 November 2019):

The very first day of the meeting took place at the representative offices of the University of Rome Tor Vergata in via Lucullo, in the city center. After the registration of the participants, a welcome speech was held by professor Cubadda, dean of the School of Economics and Coordinator of the Master in Big Data in Business at the University of Rome Tor Vergata.

Dr. Damiano Pinnacchio, the person responsible for the International Office at the University of Tor Vergata started the presentation of the Italian public University of Rome founded in 1982. He introduced the participants with the mission and vision, and the goals of the Institution. The University of Rome Tor Vergata aims at increasing innovative and international educational programs and curricula; improving transnational and interdisciplinary research and developing selected Centers of Excellence Afterwards; creating bridges between Institutions, Firms and Society.

He provided an insight on numbers and key facts, especially focusing on International degree courses, joint degrees, dual and multiple degree programs. The University of Tor Vergata foster international cooperation through a variety of bilateral agreements with Partner Universities all over the world, extra-EU and top Universities in the BRICS Area and Erasmus agreements in Europe.

During the coffee break, all meeting participants were introduced and representatives from partner institutions gave some remarks regarding their expectations from the project.

After the break, Prof. Dr. Mirko Savic started the steering committee session providing instructions about financial reporting for the second reporting period (01.07.2019.-30.9.2019.) and preparation for interim report by 14/4/2020.

During the meeting he also opened a discussion about the internationalization of study program through the exchange of teaching staff (Visiting professors from EU). In this regard, Ivana Vujkov, Head of International Relations Office provided a useful presentation (See Steering Committee Meeting Minute).

Serbian partners were involved in sharing updates about their stages of implementation of ADA master degrees.

Prof. Savic concluded the committee meeting proposing a draft of an upcoming action plan and a set of activities in the future period, including the organization of the next study visit.

During the local committee meeting, members of the Universities were able to meet Dr. Damiano Pinnacchio from the International Relations Office of Tor Vergata and Mr. Susanna Petrini from the Erasmus Office and discuss about further opportunities of collaboration.

Day II (19 November 2019):

On the second day, the members of the committee are hosted at the School of Economics of the partner University.

Professor Cubadda introduced the School of Economics, making a presentation of the international teaching staff. The Faculty is committed to excellence in research and teaching. Professors pertain to two main departments: The Department of Economics and Finance and the Department of Management and Law. The School of Economics also hosts several research centers as the CEIS (Center for Economic and International Studies) and the FUET (Foundation Economics Tor Vergata). Degree programs are taught both in English and in Italian and include Bachelor degrees, Master's degrees, PhDs and one-year specialization courses. In addition to teaching activities the School of Economics offers services and facilities to its community: library, computer labs, language laboratory, housing solutions and sport center.

Prof. Cubadda in his role of coordinator also presented the Master in Big Data, with a specific reference on lectures, exams, internships and master thesis. He showed participants the course structure which involves classes in statistics, economics, computer science, engineering and management. Students enrolled in the master program can benefit of scholarships offered by the partner companies and from internship opportunities assigned on the basis of their academic and professional performance. Graduates of the master program are involved in successful careers in companies and institutions in Italy and abroad.

Professor Cubadda then focused on how agreements with company's work: Firms cooperate with the master by offering scholarships for an amount equal to the registration fee.

The main benefits that companies have from collaboration with the master are the following:

❑ Companies select candidates for scholarships offered, through interviews. Selected students will have the opportunity to carry out the master's thesis during a curricular internship carried out in the period between July-December 2020.

❑ Company's logo will be displayed in the "Internships" and "Scholarships" sections of the master's website for the duration of the Master's activities

❑ Experts from partner companies are involved in teaching activities or through seminars, witnessing the activities of the company and addressing issues in the "big data" field.

Prof. Gnan then introduced the management pillar, including course in strategic management, decision making process and designing communication of results. He stressed how important it is, besides the technical profile of a data scientists, to communicate and deliver the results to a company manager or towards clients. Students at the end of the academic path are capable to harness complex data and express themselves providing useful contribution in the decision making process.

Prof. Parisi concluded day II, with a presentation of the statistics pillar, whose aim is to endow students with concepts and methods in both supervised and unsupervised statistical learning and in the analysis of high dimensional dynamic systems, pandemic in almost of any branch of knowledge, including basic sciences, biology medicine, business, engineering, economics, finance, medicine.

All the course in the statistical area are made up of theoretical and practical classes and foresee the use of machines and specific software as MatLab, R, Python, Hadoop, Java, Multichain, C, among others.

At the end of the classes students are involved in projects group assignments aimed at assessing the capabilities of analyzing data, as well as the ability to communicate the relevant findings.

Day III (20 November 2019):

The third day of the meeting is held at the School of Engineering of the University of Rome Tor Vergata. After a presentation of the dean of the Faculty, Prof. Silvello Betti, prof. Zanzotto, head of Artificial Intelligence presents the HitAI network and its activities.

Prof. Salsano introduces the Networking group of researchers and professors and explains how big data are enabled by networking, through virtualization, cloud and fast computing. The scenario illustrates also how networking is supported by big data, through the collection of monitoring data.

Chiara Carusi, PhD, currently employed at the Italian Ministry of Economics and Finance shows the implications of Big Data also in the Public Administration. Prof. Bianchi, teacher of the courses in *Security and Privacy* and *Blockchain Technologies and Applications*, focuses on Cyber-security and related contents.

During the Meeting, Porf. Savic also raised a poll concerning future activities and management of work packages distributed among the partner Universities.

The third day ended with bilateral meeting of partners where additional issues where discussed.