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***DECISION NO 14/42***

Approval of of establishment of the Inter Inter - University Post Graduate Studies Program entitled "Quantum Computing and Quantum Tehnologies" of the Department of Electrical and Computer Engineering (THMMY) School of Engineering of the Democritus University of Thrace (Δ.Π.Θ) in cooperation with the National Center for Scientific Research "DEMOKRITOS" .

**THE SENATE OF THE DEMOCRITUS UNIVERSITY OF THRACE**

Having taken under consideration:

- 1) The provisions of paragraph 2 article 13 Law 4485/2017 "Organization and operation of Higher Education, research dispositions and other provisions" (A' 114) set out in competences of the Senate.

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- 2) The Declaratory Act of the Minister of Education Research and Religions under records 137509/Z1 (ΥΟΔΔ 490/2018) by which it is ascertained that the election of the Rector and Deputy Rectors of the Democritus University of Thrace with four years term from 01/09/2018 through 31.08.2022.
- 3) The provisions of Law 4485/2017 especially articles 30 “General Provisions”, 31 “Administration Agencies of Postgraduate Studies Programs (ΠΜΣ)”, 32 “Establishment of Postgraduate Studies Programs (ΠΜΣ)”, 33 “Attendance of studies duration and credits” 34 “Election, rights and obligations of postgraduate students” 35 “Free attendance of studies - scholarships”, 36 “Teaching Staff” 37 “Resources – funding of Postgraduate Studies Programs (ΠΜΣ)” as well as transitional provisions of article 85 (Α’ 114).
- 4) The Ministerial decision under records 216672/Z1/8.12.2017 (Β’ 4334) Ministerial Decision “Manner to draw up the detailed budget of operation and report of viability of Postgraduate Studies Programs”.
- 5) The provisions of Law 3374/2005 “Securing of quality in higher education. A transfer system and accumulation of credits. – Degree Appendix” (Α’ 189) as amended and in force.
- 6) The provisions of presidential decree 86/2013 (Α 124) “Merger of Departments, establishment – constitution – reformation of Faculties in Democritus University of Thrace (Δ.Π.Θ)”.
- 7) The Minutes’ extract of the Assembly of the Department of Electrical and Computer Engineering (THMMY) School of Engineering of the Democritus University of Thrace (Δ.Π.Θ) (session 5/08.12.2020).
- 8) Minutes’ extract of the Meeting of the Board of Directors of National Center for Scientific Research “DEMOKRITOS” (ΕΚΕΦΕ) (session 664/18.05.2020).

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- 9) The Special Protocol of Cooperation amongst the Departments.
- 10) The No 01/25/14.01.2021 Recommendation of the Committee of Postgraduate Studies of Democritus University of Thrace (Δ.Π.Θ)
- 11) The No 588/12.02.2014 Document of (ADIP) Hellenic Quality Assurance and Accreditation Agency from which it ensues that the exterior valuation of the Department of Electrical and Computer Engineering (THMMY) School of Engineering of the Democritus University of Thrace (Δ.Π.Θ) has been fulfilled.
- 12) The fact that, from the provisions of the decision aforesaid no cost has been charged at the expense of state budget we decide:

We approve from academic year 2021 – 2022 the operation of the Inter University the Inter - University Post Graduate Studies Program (Master's) entitled “Quantum Computing and Quantum Tehnologies” of the Department of Electrical and Computer Engineering (THMMY) School of Engineering of the Democritus University of Thrace (Δ.Π.Θ) in cooperation with the National Center for Scientific Research “DEMOKRITOS” as follows:

## **Article 1**

### **General provisions**

The Department of Electrical and Computer Engineering (THMMY) School of Engineering of the Democritus University of Thrace (Δ.Π.Θ) organizes and operates since academic year 2021 – 2022 an Inter - University Post Graduate Studies Program (Master's) entitled “Quantum Computing and Quantum Tehnologies” pursuant to the provisions of the said decision and the provsions of Law 4485/2017 (A' 114) as amended and in force.

## **Article 2**

### **Postgraduate Titles (Master's)**

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The Inter - University Post Graduate Studies Program awards the Diploma (Degree) of Postgraduate Studies (Δ.Μ.Σ) entitled “Quantum Computing and Quantum Tehnologies”.

### **Article 3**

#### **Gnostic subject**

Gnostic subject of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) shall be : “quantum technologies, quantum circuits and quantum computing construction technologies, quantum metrology, quantum sensors, quantum telecommunications, quantum internet, quantum cryptography and cryptanalysis, quantum computing operating systems development, quantum computing progamming, quantum computation error correcting, quantum algorithms and quantum computing simulators. Applications of quantum computing in subjects of other sciences are included in the gnostic subject of Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) as well, such as, the use of quantum computing in Biology, machine learning, in artificial intelligence, Chemistry, material science, natural languages processing, economy, as well as any other gnostic subject, where the strong computing power is necessary. Gnostic subjcect of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) includes non conventional computing techniques and non e- technologies related to construction, operation, and use of quantum computing and interrrelation of quantum computing with classical computers and high performance digital circuits.

### **Article 4**

#### **Program conducting language**

The Teaching language and elaboration of the Diploma (Degree) thesis is the English language .

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## **Article 5**

### **Studies Attendance time duration**

Time duration for the award of the Post graduate Diploma (Master's Degree) (Δ.Μ.Σ) is defined to three (3) semesters.

## **Article 6**

### **Credits**

Total of credits (ECTS) required in order to attain the Post graduate Diploma (Master's Degree) (Δ.Μ.Σ) rises to ninety (90).

## **Article 7**

### **Duration of Operation**

The duration of operation of the Post Graduate Studies Program (Π.Μ.Σ.) lasts through academic year 2025-2026.

## **Article 8**

### **Operating Cost**

Pursuant to case b' par 4 article 37 Law 4485/2017 thirty per cent (30%) concerns covering of operating costs of the Institution prioritizing needs covering of Post Graduate Studies Programs (Π.Μ.Σ.) operating without any tuition fees.

70% of overall operating cost of Post Graduate Studies Program (Π.Μ.Σ) concerns operating costs.

Pursuant to Ministerial Decision (B' 4334) under records 216772/Z1/8.12.2017, a percentage seventy per cent (70%) of operating costs of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) is divided.

In the following table it is jointly calculated that 30% of students may be released from tuition fees based on the provisions of article 35 Law 4485/2017.



Overall anticipated annual revenues of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) shall be  $30 \times 4500 = 135.000$  euro. 30% (9 out of 30) of students may be released from tuition fees and the relevant cost shall be  $9 \times 4.500 = 40.500$  euro. The amount for distribution shall be :  $135.000 - 40.500 = 94.500$  euro and it is divided pursuant to the table below:

COSTS	AMOUNT IN €
1. Equipment and software costs	2.000
2. Disposables costs	600
3. Teachers commuting costs	7.000
4. Postgraduate students transport costs for educational purposes	2.550
5. Teaching fees for Universities and research centers and institutions regular Staff participating in Postgraduate Studies Program organising	36.000
6. Teaching staff fees of par 5 article 36 Law 4485/217	3.000
7. Administrative and Technical support fees	12.000
8. Other costs, such as especially publicity – projection, translations, educational material purchase, congress organising, projects fees of the field	3.000
<b>PARTIAL TOTAL (70%)</b>	<b>66.150</b>
9. Operating costs of the Institutions (30%)	28.350
Division as follows : ΕΛΚΕ	
<b>TOTAL*</b>	<b>94.500</b>

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\*Overall ceiling of program costs is estimated based on percentage of 30% of students released from tuition fees payment pursuant to par 2 article 35 Law 4485/2017. In case the beneficiaries of tuition fees payment release are less than 30% increases shall occur and ΕΛΚΕ of the Institution may collect additional amounts.

Minimum number of enrolled students for proper operation of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) is ten (10). In case aforesaid overall anticipated annual costs of Δ.Π.Μ.Σ shall be  $10 \times 4.500 = 45.000$  euro. 30% (3 out of 10) of students entitled may be released from tuition fees and the relevant costs shall be  $3 \times 4.500 = 13.500$  euro. The amount to be distributed is  $45.000 - 13.500 = 31.500$  euro. From the said amount 30% that is the amount of 9.450 euro is attributed to ΕΛΚΕ of (ΔΠΘ). From the said amount remaining that is 22.50 euro the amount of 6.000 euro is disposed for administrative and technical support of the Inter - University Post Graduate Studies Program (Δ.Π.Μ.Σ) of (THMMY) of (ΔΠΘ).

Fees of regular teaching, technical and administrative staff of the Institutions concern work exceeding their legal obligations.

Operating cost of ΠΜΣ shall be covered from tuition fees, research programs, grants donations etc.

## **Article 9**

### **Tuition fees**

For the overall of the program, tuition fees rise to 4.500 euro

## **Article 10**

### **Special Provisions**



All issues not regulated by the present decision shall be regulated by the Regulation of Postgraduate Studies as well as from the competent agencies pursuant to legislation in force.

The said decision shall be published in the Official Gazette

KOMOTINI 14 JANUARY 2021

THE RECTOR

ALEXANDROS POLYCHRONIDIS

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I, VICTORIA STENTOUMI A CERTIFIED TRANSLATOR OF THE MINISTRY OF FOREIGN AFFAIRS OF THE HELLENIC REPUBLIC (Register Number: 122), MINISTERIAL DECISION No. Π23MET-34908/19.07.2021 OF THE MINISTER OF FOREIGN AFFAIRS (OFFICIAL JOURNAL B 3149), do hereby certify that the foregoing is a true translation and representation of the contents of the document from Greek into English /without any amendments. The translator assumes no liability for the content of the original document.

ATHENS 22/9/2023

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