

Πρόγραμμα Μεταπτυχιακών Σπουδών Εξειδίκευσης του Τμήματος Ελληνικής Φιλολογίας  
του Δημοκριτείου Πανεπιστημίου Θράκης σε συνεργασία με το ΕΚΕΦΕ Δημόκριτος –  
Ινστιτούτο Πληροφορικής και Επικοινωνιών με τίτλο: «Εξειδίκευση στις Τ.Π.Ε. και Ειδική  
Αγωγή – Ψυχοπαιδαγωγική της ένταξης»

**ΘΕΩΡΙΕΣ ΤΑΞΙΝΟΜΙΑΣ ΤΗΣ ΜΑΘΗΜΑΤΙΚΗΣ ΙΚΑΝΟΤΗΤΑΣ ΚΑΙ Η ΧΡΗΣΗ ΤΟΥΣ ΣΤΗΝ  
ΑΞΙΟΛΟΓΗΣΗ ΤΩΝ ΕΙΔΙΚΩΝ ΜΑΘΗΣΙΑΚΩΝ ΔΥΣΚΟΛΙΩΝ ΣΤΑ ΜΑΘΗΜΑΤΙΚΑ ΚΑΙ Ο  
ΡΟΛΟΣ ΤΩΝ Τ.Π.Ε.**

**TAXONOMY THEORIES OF MATHEMATICAL ABILITIES AND THEIR USE IN THE  
EVALUATION OF SPECIFIC LEARNING DISABILITIES IN MATHEMATICS AND ICTs ROLE**

της

Γκαλίτσκογια Βικτώρια

Μεταπτυχιακή διατριβή που υποβάλλεται  
στην τριμελή επιτροπή για την απόκτηση του μεταπτυχιακού τίτλου του  
Προγράμματος Μεταπτυχιακών Σπουδών Εξειδίκευσης  
του Τ.Ε.Φ-Δ.Π.Θ. σε συνεργασία με το Ε.Κ.Ε.Φ.Ε. Δημόκριτος – Ινστιτούτο  
Πληροφορικής και Επικοινωνιών  
με τίτλο: «Εξειδίκευση στις Τ.Π.Ε. και Ειδική Αγωγή – Ψυχοπαιδαγωγική της ένταξης»

Εγκεκριμένο από την τριμελή επιτροπή:

1ος Επιβλέπων: Δρ. Δρίγκας Αθανάσιος, Ερευνητής Α' βαθμίδας, Ι.Π.Τ. Ε.Κ.Ε.Φ.Ε. "ΔΗΜΟΚΡΙΤΟΣ"

2ος Επιβλέπων: Δρ. Βερδής Αθανάσιος, Επίκουρος Καθηγητής Φ.Π.Ψ. -Ε.Κ.Π.Α

3ος Επιβλέπων: Δρ. Ρίζος Σπυρίδων, Συνεργαζόμενος Ερευνητής Ι.Π.Τ. Ε.Κ.Ε.Φ.Ε. "ΔΗΜΟΚΡΙΤΟΣ"

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## ΠΕΡΙΛΗΨΗ

Τα μαθηματικά είναι μια επιστήμη που απαιτεί σύνθετη σκέψη. Η μαθηματική σκέψη μελετήθηκε κατά καιρούς από πολλούς ερευνητές, οι οποίοι προσπάθησαν να την ταξινομήσουν σε επίπεδα. Η παρούσα εργασία επιχειρεί, μεταξύ άλλων, να παρουσιάσει αρκετές από αυτές τις ταξινομήσεις και να αναδείξει ορισμένες επεκτάσεις τους στις Τ.Π.Ε.

Τα τελευταία χρόνια, η επίγνωση γύρω από τους μαθητές με ειδικές μαθησιακές δυσκολίες έχει αυξηθεί και η αντιμετώπιση τους έχει αλλάξει τόσο σε επιστημονικό όσο και σε κοινωνικό επίπεδο. Οι μαθητές αυτοί μπορεί να εμφανίζουν δυσκολία στην ανάγνωση, τη γραφή, την ορθογραφία και τα μαθηματικά. Έχει πραγματοποιηθεί πληθώρα μελετών που κύριο στόχο έχουν να προσεγγίσουν το θέμα από όσες περισσότερες πλευρές μπορούν, για να διαμορφώσουν μια σαφέστερη εικόνα όχι μόνο για το τι είναι οι ειδικές μαθησιακές δυσκολίες, αλλά κυρίως με ποιόν τρόπο μπορούμε να βοηθήσουμε αυτούς τους μαθητές. Η παρούσα διπλωματική εργασία αποτελεί μια βιβλιογραφική ανασκόπηση που επικεντρώνεται στους μαθητές που παρουσιάζουν μαθησιακή δυσκολία στα μαθηματικά και είναι επιστημονικά γνωστή ως «δυσαριθμησία». Εκτός αυτού ασχολείται και με την μαθησιακή δυσκολία που αντιμετωπίζουν οι μαθητές στη γεωμετρία, η οποία πρόσφατα άρχισε να μελετάται από τους ερευνητές και ονομάζεται «αγεωμετρία ή ageometria». Παρουσιάζονται τεκμηριωμένα επιστημονικά δεδομένα από τον ελληνικό και διεθνή χώρο για τους δυο προαναφερόμενους όρους, και ειδικότερα περιγράφονται: (α) οι εγκεφαλικές λειτουργίες των μαθητών με «δυσαριθμησία και αγεωμετρία», (β) οι παράγοντες που επηρεάζουν τη μάθηση των Μαθηματικών, (γ) οι τρόποι ανίχνευσης της δυσαριθμησίας με τη χρήση Τ.Π.Ε. και (δ) οι τρόποι παρέμβασης με τη χρήση Τ.Π.Ε.

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## Ιστοσελίδες

Additude. Ανακτήθηκε στις 10/5/2020 από <https://www.additudemag.com/screener-dyscalculia-symptoms-test-children/?src=test>

CogniFit. Ανακτήθηκε στις 9/5/2020 από <https://www.cognifit.com>

Dynamo Math. Ανακτήθηκε στις 10/5/2020 από <https://dynamomath.com/training/>

Dyscalculia. Ανακτήθηκε στις 2/5/2020 από <https://www.dyscalculia.org/>

Dyscalculia. Ανακτήθηκε στις 10/5/2020 από <https://www.dyscalculia.me/dyscalculia-questionnaire>

Learning Success System Ανακτήθηκε στις 9/5/2020 από <https://www.learningsuccesssystem.com/dyscalculia-screener>

Learning Upgrade. Ανακτήθηκε στις 2/5/2020 από <https://web.learningupgrade.com/courses/>

Math and Dyscalculia Testing. Ανακτήθηκε στις 2/5/2020 από <https://dyscalculiatesting.com/test.php>.

Number Dyslexia. Ανακτήθηκε στις 9/5/2020 από <http://numberdyslexia.com>

Math is Fun. Ανακτήθηκε στις 2/5/2020 από <https://www.mathsisfun.com/>

Table Fables Ανακτήθηκε στις 10/5/2020 από <https://www.tablefables.net/Index>