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**EDUCATION**
**2012–2016 PhD in Mathematical Engineering**

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**Title of Dissertation:** CONTRIBUTION TO REPORTS OF SOME ALGEBRAIC STRUCTURES WITH AFFINE PLANE GEOMETRY AND APPLICATIONS.

**Scientific Supervisor:** **Prof.Dr.Kristaq FILIPI**

**2003–2008 Mathematican (Special Course of Mathematics)**

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TRANSFORMATION GEOMETRY  
MATHEMATICAL ANALYSIS 3  
MATHEMATICAL ANALYSIS, LINEAR ALGEBRA AND GEOMETRY
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**SCIENTIFIC ACTIVITY****Conferences**

(Participation in Scientific Conferences)

1. **Orgest Zaka, Arben BAUSHI (2017)**. GEOMETRIC TRANSFORMATIONS IN MULTIVECTORIAL LANGUAGE AND THEIR APPLICATIONS IN ROBOTICS AND ANIMATIONS. International Conference on Applied Sciences and Engineering. ICEAS 2017. Tirana, Albania, 16-17 November 2017.
2. **Orgest Zaka, Arben BAUSHI (2017)**. Generating Fractals using in Multi-vectors. International Conference on Applied Sciences and Engineering. ICEAS 2017. Tirana, Albania, 16-17 November 2017.
3. **Orgest ZAKA, Arben BAUSHI, Olsi XHOXHI**. Some Applications in the Real Affine and Projective Plane. 6th International Conference on Computer Science and Communication Engineering 2017. UBT International Conference 2017. 27-29 October 2017, Durres, Albania.
4. **Arben BAUSHI, Orgest ZAKA, Olsi XHOXHI**. Some property of Beta-expansions. 6<sup>th</sup> International Conference on Information Systems and Security. UBT International Conference 2017. 27-29 October 2017, Durres, Albania.
5. **Orgest ZAKA, Olsi XHOXHI, Arben BAUSHI**. Describes the Process of Visualizing three-Dimensional Objects. International Conference on Integrated Design. UBT International Conference 2017. 27-29 October 2017, Durres, Albania.
6. **Orgest ZAKA, Arben Baushi, Olsi Xhoxhi**. THE QUADRATICS IN AFFINE AND PROJECTIVE SPACE TO CONSTRUCTED OVER AN FIELD F WITH DIFFERENT CHARACTERISTICS FROM TWO. Takimi i Dymbëdhjetë vjetor ndërkombëtar i Institutit Alb-Shkenca *Prishtinë, 01 - 03 shtator 2017*.
7. **Arben BAUSHI, Orgest Zaka (2017)**. Disa vështrime mbi Pisotet dhe lidhsmërine e tilite përfituar nga këta numra. Takimi i Dymbëdhjetë vjetor ndërkombëtar i Institutit Alb-Shkenca, Prishtinë, 01 - 03 shtator 2017.
8. **Orgest Zaka, Kristaq Filipi (2016)**. AN APPLICATION OF FINITE AFFINE PLANE OF ORDER  $n$  IN AN EXPERIMENT PLANNING. 5<sup>th</sup> International Conference On Business, Technology and Innovation (ICBTI 2016), Durrës, 4-5 November 2016.
9. **Orgest ZAKA, Kristaq FILIPI (2015)**. ONE CONSTRUCTION OF AN AFFINE PLANE OVER A CORPS. The 3<sup>Rd</sup> International Conference on "Research and Education Challenges Towards the Future" (ICRAE 2015). University of Shkodra "Luigj Gurakuqi" and University Education for Business and Technology. Shkodër, October 23-24, 2015.
10. **Orgest ZAKA (2015)**. THE CONSTRUCTION OF AN CORPS IN A AFFINE PLANE. International Conference On Computer Science And Communication Engineering. 4<sup>th</sup> International Conference On Business, Technology and Innovation, Durrës, 6-7 November 2015, University Education for Business and Technology. Conference Book of Abstract pp.39.
11. **Orgest ZAKA (2013)**. A NOTE OF GOLBACH'S CONJUCTURE. 1st WESTERN BALKAN CONFERENCE OF MATHEMATICAL SCIENCES ELBASAN 13. Conference Proceedings, page 7. ABSTRACT BOOK OF THE FIRST INTERNATIONAL WESTERN BALKAN CONFERENCE OF MATHEMATICAL SCIENCIES Hold in Elbasan, Albania from May 30th to June first, 2013. pp 17-17.
12. **Orgest ZAKA (2011)**. SOME APPLICATIONS OF GROUP THEORY. "1st INTERNATIONAL SYMPOSIUM ON COMPUTING IN INFORMATICS AND MATHEMATICS (ISCIM 2011)" June 2nd to 4th, 2011. Durrës and Tirana. Proceedings Book (ISCIM 2011) ISBN 978-9928-4044-8-0.
13. **Orgest ZAKA (2010)**. TEOREMA E DEZARGUT DHE TEOREMA E PAPUSIT NË ALGJEBRËN GJEOMETRIKE. Takimi i V (Pestë) Vjetor Ndërkombëtar i Institutit Alb-Shkenca, Organizuar Në Tiranë. Seksioni i Shkencave Të Natyrës. Përmbledhje dhe Punime Shkencore të institutit Alb-Shkenca faqja 381. ISBN 978-9928-4001-7-8.
14. **Orgest ZAKA (2010)**. GJEOMETRIA E RREGULLT NË TRUPAT ALGJEBRIKË. RREGULLI ARKIMEDIAN. Takimi i V (Pestë) Vjetor Ndërkombëtar i Institutit Alb-Shkenca, Organizuar në Tiranë. Seksioni i Shkencave të Natyrës. Përmbledhje dhe Punime Shkencore të institutit Alb-Shkenca faqja 382. ISBN 978-9928-4001-7-8.



**Publications  
(Scientific Article)**

1. **Orgest Zaka.** A description of collineations-groups of an affine plane. *LIBERTAS MATHEMATICA (new series)*. Vol 37, No 2 (2017). 2017 Aveiro, Portugal. American Romanian Academy of Arts and Sciences Publication Department of Mathematics University of Aveiro 3810-193, Aveiro, Portugal . ISSN print: 0278 – 5307, ISSN online: 2182 – 567X.

DOI: <http://dx.doi.org/10.14510%2FIm-ns.v37i2.1351>

**Abstract.** Based on the literature by following very interesting work in the past [2], [3], [4], [9], [12] In this article becomes a description of collineations in the affine plane [10]. We are focusing at the description of translations and dilatations, and we make a detailed description of them. We describe the translation group and dilatation group in affine plane [11]. A detailed description we have given also for traces of a dilatation. We have proved that translation group is a normal subgroup of the group of dilatations, wherein the translation group is a commutative group and the dilatation group is just a group. We think that in this article have brings about an innovation in the treatment of detailed algebraic structures in affine plane.

2. **Dr. Orgest ZAKA, (2018)** Three Vertex and Parallelograms in the Affine Plane: Similarity and Addition Abelian Groups of Similarity  $n$ -vertexes in the Desargues Affine Plane. *Mathematical Modelling and Applications*, Science Publishing Group., Volume 2, Volume 2, Issue 6, December 2017.

<http://www.sciencepublishinggroup.com/j/mma>

**Abstract** In this article will do a concept generalization  $n$ -gon. By renouncing the metrics in much axiomatic geometry, the need arises for a new label to this concept. In this paper will use the meaning of  $n$ -vertexes. As you know in affine and projective plane simply set of points, blocks and incidence relation, which is argued in [1], [2], [3]. In this paper will focus on affine plane. Will describe the meaning of the similarity  $n$ -vertexes. Will determine the addition of similar three-vertexes in Desargues affine plane, which is argued in [1], [2], [3], and show that this set of three-vertexes forms an commutative group associated with additions of three-vertexes. At the end of this paper are making a generalization of the meeting of similarity  $n$ -vertexes in Desargues affine plane, also here it turns out to have a commutative group, associated with additions of similarity  $n$ -vertexes.

3. **Dr. Orgest ZAKA, Arben BAUSHI, Olsi XHOXHI. (2018)** NJË PARAQITJE E KUADRATIKËVE NË,  $Aff_{[\text{Char}F \neq 2]}(n, F)$  DHE  $Proj_{[\text{Char}F \neq 2]}(n, F)$ . *Buletini Shkencor Nr.68.2018. Universiteti i Shkodres "Luigj Gurakuqi"*. ISSN 2221-6847. pp 44-61.

**Abstrakt.** Në këtë punim do të paraqesim një përshkrim të formave kuadratike  $Q_{[\text{Char}F \neq 2]}(*, *)$  dhe bilineare  $B_{[\text{Char}F \neq 2]}(*, *)$  në hapsirat vektoriale mbi fushat me karakteristikë të ndryshme nga dyshi. Do të shohim se si një hapësirë affine  $Aff(n, F)$  mund të përcaktohet nga një hiperplan  $H$  në hapsirën projektive  $Proj(n, F)$ , dhe kuadratikët në hapsirën projektive të cilët përcaktojnë një kuadratik të dhënë në hapsirën affine. Një vënd të rëndësishëm në këtë artikull zënë hapsirat ortogonale  $Ort(n, F)$ . Gjatë këtij punimi do të vëmë në dukje vetitë e gjeometrikë kuadratikeve  $n$  e hapsirat affine  $Aff(n, F)$  dhe projektive  $Proj(n, F)$  të ndërtuara mbi një fushë  $F$ , ku  $\text{Char} F \neq 2$ . ndalemi në kuadratikët affinë dhe projektivë duke treguar që 'Imazhi i njësimit kuadratiku affin është një kuadratiku affin'. Gjithashtu në këtë punim tregohet edhe që 'Imazhi i njësimit kuadratiku projektiv është një pasqyrimi projektiv është përsëri një kuadratiku projektiv'. Ne e vërtetojmë duke treguar që mund të ketë disa kuadratike projektive të ndryshme, të cilët japin të njëjtin kuadratiku affin, gjatë ngushtimit. Gjithashtu arrijmë në përfundimin që: 'Imazhi i njësimit kuadratiku projektiv është një izomorfizmi projektiv është përsëri një kuadratiku projektiv' më të njëjtin gradë, ky rezultat tregon në thelb karkterin gjeometrik të kuadratikeve projektive.

4. **Dr. Orgest ZAKA (2018).** NJË PËRSHKRIM I NDËRSJELLTË MIDIS GJEOMETRISË DHE TEORISË SË GRUPEVE. *Buletini Shkencor Nr.68.2018. Universiteti i Shkodres "Luigj Gurakuqi"*. ISSN 2221-6847. pp 62-78.

**Abstract.** Në këtë artikull po formalizojmë në një mënyrë të thjeshtë, lidhjen ndërmjet gjeometrisë dhe teorisë së grupeve, dhe do të shqyrtojmë disa çështje gjeometrike për atë teorinë e grupeve. Veprimi i një transformimit të grupit mbi një hapësirë është një tjetër thënie e simetrisë. Të thuash se një objekt ka simetri do të thotë që ai ka kaluar në vetvete nga një veprim grupi: simetria e rrotullimit kupton simetri sipas grupit të rrotullimeve përreth një boshti. Në këtë punim do të sjellim një mori shembujsh të cilët ilustrojnë qëllimin tonë.

5. **Orgest ZAKA, Arben Baushi, Olsi Xhoxhi (2018).** SHNDËRIME GJEOMETRIKE NË GJUHËN MULTIVEKTORIALE DHE APLIKIME TË TYRE NË ROBOTIKË DHE ANIMIM. *Buletini i Shkencave Teknike, Universiteti Politeknik i Tiranës*. ISSN 05 62 B 945

**Abstrakt.** Në këtë artikull, fillimisht do të bëjmë një përshkrim të detajuar të multivektorëve dhe të

hapsirave multivektoriale. Do të përshkruajmë: produktin e jashtëm, të brendshëm dhe produktin gjeometrik midis vektorëve si dhe vetitë algjebrike të tyre. Më pas do të shohim shndërimet gjeometrike si inversioni sferik, simetria sipas një plani, zhvendosja paralele, rrotullimi në gjuhën multivektoriale. Gjithashtu gjatë këtij artikulli në gjuhën e multivektorëve, do të përshkruajmë sipërfaqet e rrotullimit, vijat cikloidale, ku dhe do të shohim disa aplikime të tyre në robotikë. Në këtë punim duke përdorur rotorët dhe motorët si shndërimet gjeometrike, arrijmë të sjellim një aplikim interesant mbi animimin.

**6. Dr. Orgest ZAKA, Prof. Dr. Kristaq FILIPI, (2017)** "An Application of Finite Affine Plane of Order  $n$ , in an Experiment Planning". International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391. <http://www.ijsrpublications.com/ijsr.net/archive/v6i6/v6i6.php>, Volume 6 Issue 6, June 2017, 1744 - 1747,

[DOI: 10.21275/ART20174592](https://doi.org/10.21275/ART20174592)

**Abstract:** In this paper we present an application possibility of the affine plane of order  $n$ , in the planning experiment, taking samples as his point. In this case are needed  $n^2$  samples. The usefulness of the support of experimental planning in a finite affine plane consists in avoiding the partial repetition combinations within a proof. Reviewed when planning cannot directly drawn over an affine plane. In this case indicated how the problem can be completed, and when completed can he, with intent to drawn on an affine plane.

**7. Orgest ZAKA (2017).** 3D Matrix Ring with a "Common" Multiplication. Open Access Library Journal 2017, Volume 4, e3593 ISSN Online: 2333-9721 ISSN Print: 2333-9705.

<https://doi.org/10.4236/oalib.1103593>

**Abstract:** In this article, starting from geometrical considerations, he was born with the idea of 3D matrices, which have developed in this article. A problem here was the definition of multiplication, which we have given in analogy with the usual 2D matrices. The goal here is 3D matrices to be a generalization of 2D matrices. Work initially we started with  $3 \times 3 \times 3$  matrix, and then we extended to  $m \times n \times p$  matrices. In this article, we give the meaning of 3D matrices. We also defined two actions in this set. As a result, in this article, we have reached to present 3-dimensional unitary ring matrices with elements from a field  $F$ .

**8. Orgest Zaka, Kristaq Filipi (2016).** THE TRANSFORM OF A LINE OF DESARGUES AFFINE PLANE IN AN ADDITIVE GROUP OF ITS POINTS. International Journal of Current Research, ISSN:0975-833X. Vol.8, Issue, 07. July. pp.34983-34990

<https://arxiv.org/abs/1609.01155>

**Abstract.** In this paper we present a set transformation of points in a line of the Desargues affine plane in a additive group [2], [3]. For this, the first stop on the meaning of the Desargues affine plane, formulating first axiom of his that show proposition D1. Afterwards we show that little Pappus theorem, which we use in the construction of group proofs in additions of points on a line on desargues plane, also applies in the Desargues affine plane.

**9. Orgest ZAKA, Kristaq FILIPI (2016).** ONE CONSTRUCTION OF AN AFFINE PLANE OVER A CORPS. Journal of Advances in Mathematics. Volume 12 Number 5. ISSN 23 47-19 21. Council for Innovative Research. pp.6200-6206

<https://cirworld.com/index.php/jam/article/view/12-5-215>

**Abstract.** In this paper, based on several meanings and statements discussed in the literature, we intend construction a affine plane about a of whatsoever corps  $(K, \oplus, \odot)$ . His points conceive as ordered pairs  $(\alpha, \beta)$ , where  $\alpha$  and  $\beta$  are elements of corps  $(K, \oplus, \odot)$ . Whereas straight-line in corps, the conceptualize by equations of the type  $x \odot a \oplus y \odot b = c$ ,  $a \neq 0_K$  or  $b \neq 0_K$  the variables and coefficients are elements of that body. To achieve this construction we prove some theorems which show that the incidence structure  $A = (P, L, I)$ , connected to the corps  $K$  satisfies axioms A1, A2, A3 definition of affine plane. In all proofs rely on the sense of the corps as his ring and properties derived from that definition.

**10. Orgest ZAKA (2011).** SOME APPLICATIONS OF GROUP THEORY. PROCEEDINGS BOOK (ISCIM 2011) ISBN 978-9928-4044-8-0.

**Përshkrimi.** Në këtë punim japim disa aplikime të teorisë së grupeve. Aplikimi i parë shfrytëzon faktin që njehsimi i  $Z$  mund të zëvendësohet me njehësimin e  $Z_n$ , për  $n$  sado të madhe.  $Z_n$  mund të zbërthehet në prodhim të drejtë grupesh me fuqi të rendit numër të thjeshtë, pra mund të bëhen

njehsime në paralel në komponente më të vogla. Teoria e grupeve ka aplikime interesante në projektimin e programeve kompjuterike, ato rezultojnë në teknikat të cilat përshejtojnë llogaritje të konsiderueshme dhe një shembull i tillë është paraqitur në këtë punim. Teoria e grupeve është aparati kryesor në studimin e simetrisë, rotullimit dhe shumë zhvendosjeve gjeometrike, kjo do të paraqitet në këtë punim dhe për më tepër do të tregojmë aplikime interesante të teorisë së grupeve në kimi.

**11. Orgest ZAKA (2011).** IMAGE UNDERSTANDING AND APPLICATIONS OF SYMMETRY GROUPS. *Jurnal of Algebra and Computational Applications*. ISSN 2217-6764.

**Përshkrimi.** Në këtë punim kam paraqitur disa aplikimet e teorisë së grupeve. Së pari trajtojmë disa probleme; ne do të shohim kur një vëzhgim i aparatit fotografik dërgon informacione në një kompjuter, si kompjuteri mund ti shpjegojë ato, për raste të ndryshme. Për më tepër shohim se si mund të nxjerrim informacion për skemën 3D nga imazhi 2D. Ne shohim se teoria e grupeve është mjete ideale për të studiuar simetrinë. Ne do të quajmë "objekt" çdo nënhapsirë të  $R^2$  ose  $R^3$ . Këtu ne do të krijojmë funksione ortogonale të  $R^2$  në  $R^3$  ose të  $R^3$  në  $R^3$  dhe nga algjebra lineare ne dimë që këto janë rotullime, apo shëmbëllime, apo rotullim-shëmbëllime. "Objektet" që ne paraqesim në aplikimet e Kimisë dhe kristalografisë, janë Molekulat. Ne kemi shpjeguar një shembull të "Algoritmi për të gjetur grupin e simetrisë të një molekule (objekti)", e cila është dhënë nga Stenberg në vitin 1994. Ne jemi duke u përpjekur, gjithashtu, për të sjellë disa shembuj ku aplikimet e grupeve simetrike janë shumë interesante dhe të dobishme.

**12. Orgest ZAKA, Gjergji Capollari (2011).** HAPSIRAT AFINE MBI NJË K-HAPSIRE VEKTORIALE. *BULETINI SHKENCOR TË UNIVERSITETIT F.S. NOLI KORCË*. 2011. ISSN 2078-7111

**Përshkrimi.** Në këtë artikull nocionet bazë të një hapsire affine mbi një hapësirë lineare, që zakonisht quhet hapësirë affine mbi një fushë, janë përgjithësuar në hapësirë affine mbi një K-Hapsirë Vektoriale (ku K është Trup). Janë studiuar disa veti të funksionit afin në hapësirën affine mbi një modul. Gjithashtu jepet lidhja e izomorfizmit të hapësirës affine të lidhur me një K-Hapsirë Vektoriale.

**13. Orgest ZAKA, Gjergji Capollari (2011).** SISTEMET KOORDINATIVE AFINE NË HAPSIRAT AFINE MBI K-HAPSIRE VEKTORIALE. *BULETINI SHKENCOR TË UNIVERSITETIT F.S. NOLI KORCË*. 2011. ISSN 2078-7111

**Përshkrimi.** Në këtë artikull janë shqyrtuar disa veti dhe cilësi të sistemeve koordinative affine të hapsirës affine sipas një K-Hapsire Vektoriale. Koncepti i një hapsire affine mbi një modul jep një rregull të përgjithshëm të hapsirës affine mbi një hapësirë lineare, që zakonisht quhet hapësirë affine mbi një fushë. Në artikull tregohet që një sistem koordinativ afin në tërësi është një përtues i disa nën-K-Hapsirash Vektoriale. Gjithashtu jepet edhe lidhja midis sistemeve koordinative afinë të dy K-Hapsirave Vektoriale izomorfe.

**Publications**  
(Projects and Preprint)

**Note (PR) - in Process, (P) - completed. Some are under revision.**

*The General Linear Group of 3D Matrices. (P)*

*The order in the Desargues affine plane and the weak ordered corps (P)*

*Some properties and numerical applications in the finite Incidence Structures (PR)*

*An additive group of Endomorphisms of dilatations in the Desargues affine plane (P)*

*The construction of corps (skew-field) of Endomorphisms-trace preserving in the afin Desargues plane. (P)*

*Open Problem Solution: The affine plane over  $F_{11}$  is Desarguesian (PR)*

*Reports of affine geometry and Ternary Rings. (Pr)*

*Commutative property in the parallel geometry. (Pr)*

*The projective plane in geometric algebra. (Pr)*

*The fundamental theorem of projective geometry in the geometric algebra (Pr)*

*Coordinative affine systems in spaces over an skew-field. (P)*

*The harmonic points in the geometric algebra. (P)*

*Measurement of quadratic affinity sectors. (P).*

*Etc....*

**PUBLISHED BOOKS**  
 (BOOKS in Albanian Langue)

1. **Orgest ZAKA . GJEOMETRIA ANALITIKE.** *Tiranë 2018. BOTIMET VLLAMASI,* ISBN: 978-9928-257-23-9.
2. **Orgest ZAKA . ALGJEBRA ABSTRAKTE (Unazat, Idealet, Hapsirat Vektoriale dhe Modulet).** *Tiranë 2011. BOTIMET VLLAMASI* ISBN 978-99956-94-96-8
3. **Orgest ZAKA. USHTRIME TË ZGJIDHURA TË ALGJEBRËS ABSTRAKTE.** *Tiranë 2011. BOTIMET VLLAMASI* ISBN 978-99956-94-97-5
4. **Orgest ZAKA . USHTRIME TË ZGJIDHURA NË MATEMATIKË (2222 USHTRIME)** *Tiranë 2013. BOTIMET VLLAMASI* ISBN 978-99956-94-95-1
5. **Orgest ZAKA. KOMBINATORIKA (TEORI DHE USHTRIME).** *Tiranë 2012. BOTIMET VLLAMASI.* ISBN 978-99956-94-98-2
6. **Orgest ZAKA . GJEOMETRIA I.( GJEOMETRIA ANALITIKE DHE E LEVIZJES).** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN: 978-9928-140-94-4
7. **Orgest ZAKA . ALGJEBER ABSTRAKTE I (TEORIA E GRUPEVE).** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN 978-9928-140-97-5
8. **Orgest ZAKA . ALGJEBER ABSTRAKTE II (UNAZAT DHE MODULET).** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN 978-9928-140-95-1
9. **Orgest ZAKA . ALGJEBER ABSTRAKTE III (FUSHAT DHE TEORIA GALUA).** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN 978-9928-140-96-8
10. **Orgest ZAKA . ALGJEBRA LINEARE I.** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN 978-99956-94-96-8
11. **Orgest ZAKA . ALGJEBRA LINEARE II (ALGJEBER LINEARE E AVANCUAR).** *Tiranë 2013. BOTIMET VLLAMASI,* ISBN 978-99956-95-96-8

**Project of PUBLISHED BOOKS**
**BOOKS IN ALBANIAN LANGUE**

GEOMETRY II: (TRANSFORMATION GEOMETRY)  
 GEOMETRY III: (HYPERBOLIC GEOMETRY)  
 GEOMETRY IV : (PROJECTIVE GEOMETRY)  
 ALGEBRA AND GEOMETRY OF QUATERNIONS. (Theoretical and Applications)  
 INTRODUCTION TO TOPOLOGY AND FUNCTIONAL ANALYSIS  
 HISTORY OF MATHEMATICS  
 DIFFERENTIAL EQUATIONS AND APPLICATIONS  
 PROJECTIVE GEOMETRY OVER THE FINITE FIELDS  
 INTRODUCTION TO THE GROUP THEORY  
 DIFFERENTIAL GEOMETRY  
 INTRODUCTION IN HOMOLOGICAL ALGEBRA  
 LINEAR AND MULTI-LINEAR ALGEBRA  
 PROJECTIVE GEOMETRY OVER LIE-ALGEBRAS  
 INTRODUCTION TO GEOMETRIC ALGEBRA  
 COMPLEX ANALYSIS WITH APPLICATIONS

**Supervisory of Bachelor Thesis**
**Supervisor of Bachelor Thesis (Title of thesis in Albanian Language)**

1. DISA APLIKIME TE ALGJEBRES LINEARE
2. KATEGORITE DHE FUNKTORET
3. VETITE LOKALE DHE GLOBALE TE VIJAVE DHE SIPERFAQEVE
4. KURBATURA E SIPËRFAQEVE DHE VIJAT GJEODEZIKE.
5. STUDIMI I FORMAVE KUADRATIKE (I DHE II), APLIKIME TE TYRE
6. TEOREMA E SHKELQYER E GAUSIT DHE SIPERFAQET MINIMALE
7. FUSHAT PLANE DHE PG(R,F). KOORDINATIZIMI I NJE PLANI PROJEKTIV.
8. TRANSFORMIMET PROJECTIVE.
9. KONIKET DHE KUADRATIKET NE GJEOMETRINE PROJECTIVE TE FUNDME.
10. APLIKIME TE GJEOMETRISE ANALITIKE.
11. GJEOMETRIA E HAPSIRAVE VEKTORIALE.



12. HAPSIRAT E BANAHUT DHE OPERTATORET NE TO.
13. TRANSFORMIMET LINEARE.
14. GJEOMETRIA ABSOLUTE DHE E LOBACEVSKIT
15. PLANET JO-DEZARGIANE NE GJEOMETRINE PROJECTIVE TE FUNDME
16. SISTEMET DINAMIKË ABSTRAKTË.
17. DISA FUNKSIONE SPECIALE DHE ZBATIME TE TYRE.
18. DISA ZBATIME TE TRANSFORMIMIT TE LAPLASIT.
19. NENGRUPET DHE GRUPET.
20. PERKEMBIMET, KLASAT E EKVIVALENCES.
21. HOMOMORFIZMAT DHE GRUPET FAKTORE.
22. APLIKIME TE GJEOMETRISË NË ROBOTIKË.
23. DIZENJIMI I ALGORITMEVE TE VIZIONIT ROBOTIK.
24. APLIKIME TE ALGJEBRES GJEOMETRIKE NË GRAFIKEN KOMPJUTERIKE.
25. *GRUPET E LIRA DHE TE KOKSTERIT.*
26. *GRUPET DHE TEOREMAT E SILLIOWT.*
27. *ZINXHIRET EGZAKTE.*
28. *PERCAKTORET.*
29. *TRANSFORMIMET LINEARE.*
30. *MATRICAT POLINOMIALE.*
31. ALGJEBRA E KUATERNJONEVE.
32. TRANSFORMIMI I RROTULLIMIT ME NDIHMËN E KUATERNJONEVE.
33. DISA TEOREMA TË RËNDËSISHME TË ANALIZËS FUNKSIONALE.
34. SISTEMET DHE SINJALET ZBATIME TË EKVACIONEVE DIFERENCIALË.
35. ZBATIME TË GJEOMETRISË HIPERBOLIKE
36. FUNKTORET DHE KATEGORITE
37. TEOREMA KLASIKE NGA GJEOMETRIA PROJEKTIVE
38. LIE-ALGJEBRAT NEN KENDVESHTRIMIN E GJEOMETRISE PROJEKTIVE
39. DISA KATEGORI KRYESORE
40. HAPSIRAT VEKTORIALE MBI UNAZAT ME PJEJTIM
41. MATSHMERITE NE GJEOMETRINE PROJEKTIVE
42. FUNKSIONET TRIGONOMETRIKE DHE HIPERBOLIKE.
43. GJEOMETRIA FRAKTALE ME ZBATIME NE INXHINERI  
ETC...

**Supervisory of  
Master Thesis****Supervisor of Master Thesis (Title of thesis in Albanian Language)**

1. PLANI PROJEKTIV NË RAPORT ME STRUKTURAT ALGJEBRIKE
2. SHUMËFAQSHAT DHE TRANSFORMIMET GJEOMETRIKE
3. NJË STUKTURË LLOGARITJESH PËR ZBATIMET GJEOMETRIKE
4. APLIKIME TË ALGJEBRËS GJEOMETRIKE.
5. GJEOMETRIA AFINE ZBATIME.
6. GJEOMETRIA SIMPLEKSE DHE ZBATIME TË SAJ.
7. ZBATIME TË EKVACIONEVE DIFERENCIALË ME MATLAB.
8. ZBATIME TË PËRCAKTORËVE.
9. MATRICAT POLINOMIALE DHE ZBATIME TË TYRE.
10. GJEOMETRIA PROJEKTIVE, ZBATIME.
11. ZBATIME TË ALGJEBRËS GJEOMETRIKE NË FIZIKË.
12. TRANSFORMIMET AFINE DHE SIPËRFAQET E RROTULLIMIT.
13. FUNKSIONET HIPERBOLIKE KOMPLEKSE
14. VIJAT NE GJUHEN E GJEOMETRISE DIFERENCIALE
15. ZGJIDHJE TE EDP DHE EDZ ME MATLAB
16. GJEOMETRIA ANALITIKE ME APLIKIME NE INXHINERI.  
ETC,..

**PERSONAL SKILLS**

Mother tongue(s)	Albanian				
Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
BULATS (C2) CAMBRIDGE ENGLISH					
Russian	A2	A2	A2	A2	B2
Italian	B1	B1	A2	A2	A2
French	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

**Communication skills** I am a correct, serious, practical person, I have good communication skills. I am a good listener and I try to give clearer and more logical answers to Logic.

**Organisational / managerial skills** I have good organizational skills. I take responsibility, do not overlook the problems and try to find the best possible solution for any problem. It fulfills all the commitments with utmost dedication. I like group work and confrontation of ideas in the good work. I like Teaching and Discourse, Mathematics Research and its most recent research: I know and possess the Internet very well and this makes it easier to research.

**Digital skills**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

**Digital skills - Self-assessment grid**

Microsoft Windos XP, Microsoft Windos Vista, Microsoft Windos 7, Microsoft Word XP, Microsoft Excel XP, Microsoft PowerPoint XP, Internet&E-Mail; Microsoft Office 2003, Microsoft Office 2007, Microsoft Office 2010 (version jo bazë dhe bazë), Matlab, Calculcal, Scientific Word 5.5, LaTeX, BaKoMaTeX, Vizjo, Autocat, CLUVizSetup, Minitab (Program statistikor), Minitab13, SmartDraw 7, MathType\_6.0c, Scientific WorkPlace 5.5, Geogebra4.2 and Geogebra 5.0, Matlab, PASKAL, U.M.Solver, Latex, Adobe Acr6& 9 Professional, Geometry v2.7, SetupGraph.exe, Design. Science.MathType.v6.5b.Incl. Keymaker- CORE, cabri3D, MathMagic. Pro.Edition.For.Adobe.I nDesign.v4.11.81. Geometry\_Expressions\_v1[1], ProTeXt. LOGO CREATER.

**Links** [https://www.researchgate.net/profile/Orgest\\_Zaka](https://www.researchgate.net/profile/Orgest_Zaka)  
<https://orcid.org/0000-0001-8431-8347>  
<https://sites.google.com/site/orgestzaka/>

**Driving licence** **B**

**References**

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Prof. Dr. Parashqevi RAPO	Prof. Dr. Llukan PUKA.
Prof. Dr. Mina NAQO.	Prof. Dr. Rexhep ÇUKO.
Prof.Asoc. Kristaq GJINO.	Prof.Asoc. Ilir VARDHAMI.

**Curriculum Vitae**

**Dr. Orgest ZAKA**