PËRMBLEDHJE E VEPRIMTARISË KËRKIMORE & SHKENCORE

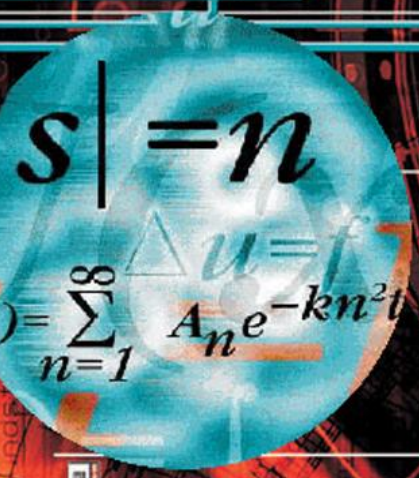
TË FAKULTETIT TË INXHINIERISË MATEMATIKE & INXHINIERISË FIZIKE

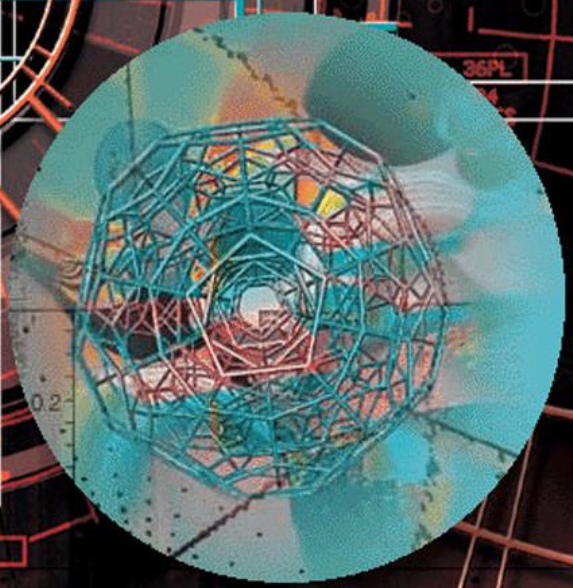
UNIVERSITETI POLITEKNIK I TIRANËS

SUMMARY OF THE SCIENTIFIC & RESEARCH ACTIVITY

OF THE FACULTY OF MATHEMATICAL ENGINEERING & PHYSICAL ENGINEERING

POLYTECHNIC UNIVERSITY OF TIRANA





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"Sado male që të hipni
nga majat e tyre do të sodisni maja të tjera
më të larta, një tjetër gjithësi joshëse
dhe në majën më të lartë kur të arrini
përsëri do të kuptoni se gjendeni
si në fillim poshtë gjithë yjeve".

"No matter how high you climb,
from their peaks, you will gaze upon other,
higher peaks, another alluring universe,
and when you reach the highest summit,
once again, you will realize you are,
as at the start, beneath all the stars".

Kjo përmbledhje u hartua nën kujdesin e

Prof. Dr. Kostaq Hila,	*Dekan*
Prof.asoc. Dhurata Kuqi,	*Zv. Dekane*
Prof.asoc. Teuta Myftiu,	*Zv. Dekane*
Prof.asoc. Alfred Daci,	Përgjegjës i DIM
Prof.asoc. Altin Gjevori,	Përgjegjës i DIF
Prof.asoc. Edlira Baraj,	Përgjegjëse e DIK
Prof. Dr. Fatmir Vrapi,	Përgjegjës i QGJH

This summary was prepared under the supervision of

Prof. Dr. Kostaq Hila,	*Dean*
Assoc. Prof. Dhurata Kuqi,	*Vice Dean*
Assoc. Prof. Teuta Myftiu,	*Vice Dean*
Assoc. Prof. Alfred Daci,	Head of the DME
Assoc. Prof. Altin Gjevori,	Head of the DPE
Assoc. Prof. Edlira Baraj,	Head of the DCE
Prof. Dr. Fatmir Vrapi,	Head of the CFL

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Informacioni i këtij materiali, në dy gjuhë, është bazuar në: (i) të dhënat zyrtare të Departamenteve të Inxhinierisë Matematike, Departamentit të Inxhinierisë Fizike, Departamentit të Inxhinierisë Kimike dhe Qendrës së Gjuhëve të Huaja; (ii) në të dhëna të siguruar nga vetë anëtarët e personelit akademik të Departamenteve si dhe nga burime të tjera informacioni.

Në këtë material jemi përpjekur të japim një përmbledhje të të gjithë aktivitetit kërkimor-shkencor të fakultetit në vite.

Theksojmë se në këtë përmbledhje janë përfshirë të dhëna vetëm për personelin aktual akademik që përbën aktualisht sot Fakultetin e Inxhinierisë Matematike dhe Inxhinierisë Fizike, pa marrë parasysh dhe pa përfshirë në të të dhëna mbi aktivitetin e mjaft pedagogëve të këtij Fakulteti të cilët nuk janë pjesë përbërëse e tij.

Kjo është një përpjekje modeste për të pasqyruar dhe për të nxjerrë në pah gjithë aktivitetin kërkimor-shkencor të shumëllojshem të këtij fakulteti.

The information in this material, in two languages, is based on: (i) official data from the Departments of Mathematical Engineering, Physical Engineering, Chemical Engineering, and the Center for Foreign Languages; (ii) data provided by the academic staff members of the Departments themselves, as well as from other sources of information.

In this material, we have attempted to provide a summary of the entire research-scientific activity of the faculty over the years.

We emphasize that this summary includes data only for the current academic staff that currently makes up the Faculty of Mathematical Engineering and Physical Engineering, excluding information about the activity of several professors from this Faculty who are not part of it.

This is a modest effort to reflect and highlight the diverse research-scientific activity of this faculty.

Historiku i krijimit të Fakultetit

Fakulteti i Inxhinierisë Matematike dhe Inxhinierisë Fizike është ndër fakultetet më të rinj të Universitetit Politeknik të Tiranë. Përpjekjet për krijimin e këtij fakulteti datojnë në 4 Tetor të vitit 2004, me Urdhërin e Rektorit Prof. Dr. Përparim Hoxha, Nr. 83 Prot., për "*Ngritjen e Grupit të punës për riorganizimin e Departamenteve pranë Rektoratit në përputhje me objektivat e reformimit të Universitetit sipas parimeve të Deklaratës së Bolonjës*". Në përbërje të grupit të punës u zgjodhën anëtarë të departamenteve pranë Rektoratit, përkatësisht të Departamentit të Matematikës dhe Informatikës, Departamentit të Fizikës dhe Departamentit të Kimisë. Grupi i punës, i cili u kryesua nga Prof. Dr. Shpëtim LEKA dhe ku bënin pjesë, Prof. Dr. Lumturi KAPLLANI, Prof. Dr. Tatjana MULAJ, Prof. Asoc. Engjëllushe LUZI, Prof. Dr. Shpëtim SHEHU, Prof. Dr. Lulzim HANELLI dhe Prof. Asoc. Petrit BERHAMI, bazuar në përvojën e Universiteteve Politeknike të vendeve të ndryshme të botës, veçanërisht të Universitetit Politeknik të Milanos dhe Torinos propozuan hapjen e dy diplomave të reja ndërdisiplinore, përkatësisht: *Inxhinieri Matematike*, pranë Departamentit të Matematikës dhe Informatikës dhe *Inxhinieri Fizike,* pranë Departamentit të Fizikës.

Ky propozim u miratua nga Senati i UPT-së, në Vendimin Nr. 17, datë 04.05.2005 dhe më pas nga Ministri i Arsimit dhe Shkencës, Z. Luan MEMUSHI, në shkresën me Nr. 5354 Prot., e 5355, datë 22.08.2005.

Kështu, *në vitin akademik* 2005-2006, filluan për herë të parë përkatësisht pranë:

- *Departamentit të Matematikës dhe Informatikës,* me 32 pedagogë të brendshëm dhe 26 të jashtëm, *Programi i Studimeve të Ciklit të Parë,* me kohëzgjatje 3-vjeçare, *Inxhnieri Matematike*, me 31 studentë;
- *Departamentit të Fizikës,* me 16 pedagogë të brendshëm dhe 32 të jashtëm, *Programi i Studimeve të Ciklit të Parë,* me kohëzgjatje 3-vjeçare, *Inxhnieri Fizike*, me 30 studentë.

Në përputhje me strategjinë e UPT-së, që përfshin mësimdhënien dhe kërkimin shkencor, sigurimin e shërbimeve si dhe plotësimin e nevojave të studentëve të UPT-së, si dhe në kuadër të implemetimit të Deklaratës së Bolonjes, krahas përgatitjeve që synonin organizime të reja bashkëkohore të kurrikulave, ishte më se e domosdoshme edhe riorganizimi i fakulteteve të vetë UPT-së.

Në vitin 2006, grupi i zgjeruar i punës, që tashmë kishte në përbërje edhe drejtuesit e fakulteteve të Inxhinierisë Mekanike, Inxhinierisë Elektrike, Inxhinierisë së Gjeologji-Minierave, Inxhinierisë së Ndërtimit, si dhe kancelaren e UPT, propozoi:

Hapjen e Fakultetit të Inxhinierisë Matematike dhe Inxhinierisë Fizike në Universitetin Politeknik të Tiranës.

me mision:

- përgatitjen në këto dy fusha të inxhinierëve cilësorë, të aftë për t'u integruar në tregun specifik të punës (të brendshëm dhe të jashtëm);

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- mbulimin e ngarkesës mësimore në të gjitha disiplinat matematike dhe fizike për Universitetin Politeknik.

Ky propozim u miratua nga Senati i UPT-së, me Vendimin Nr. 6, datë 03.03.2006.

Në Vendimin e Këshillit të Ministrave Nr. 824, datë 05.12.2007, "*Për Krijimin e disa njësive kryesore, fakultete në Universitetin Politeknik të Tiranës*", miratohet krijimi i *Fakultetit të Formimit të Përgjithshëm*, si fakultet i asociuar, në përbërje të të cilit përfshihen:

Departamenti i Fizikës dhe Kimisë; Departamenti i Matematikës, si dhe Qendra e Gjuhëve të Huaja,

duke konsideruar diplomat e Inxhinierisë Matematike dhe Inxhinierisë Fizike si diploma ndërdisipinore.

Dekane e parë e këtij Fakulteti emërohet *Prof. Dr.* Tatjana MULAJ.

Por emërtimi, *Fakultet i Formimit të Përgjithshëm,* dhe statusi i dhënë këtij fakulteti nuk përputheshim me vizionin e grupit të punës dhe misionin për të cilin u propozua krijimi i *Fakultetit të Inxhinierisë Matematike dhe Inxhinierisë Fizike.*

Dekanati, Këshilli dhe stafi akademik i Fakultetit, të mbështetur nga studentët, si dhe nga Rektorati i UPT-së, gjatë periudhës janar 2008 – prill 2009, me shkresa zyrtare si dhe takime të vazhdueshme edhe në instancat më të larta shtetërore, duke argumentuar se FFP, si fakultet i asociuar, e kishte të pamundur të realizonte misionin e përgatitjes të inxhinierëve cilësorë në fushat e inxhinierisë matematike dhe inxhinierisë fizike, të aftë për t'u integruar në tregun specifik të punës (të brendshëm dhe të jashtëm), ka kërkuar:

Të ndryshojë statusi dhe emërtimi i Fakultetit të Formimit të Përgjithshëm.

Përpjekjet këmbëngulëse, të vazhdueshme, të drejta dhe argumentuese të Dekanatit, Këshillit dhe stafit akademik të Fakultetit, u kurorëzuan me daljen e Vendimit të Këshillit të Ministrave Nr. 345, datë 08.04.2009 ku miratohet ***Krijimi i Fakultetit të Inxhinierisë Matematike dhe Inxhinierisë Fizike***, që ka në përbërje:

i. *Departamentin e Inxhinierisë Matematike;*
ii. *Departamentin e Inxhiniersië Fizike;*
iii. *Departamentin e Kimisë;*
iv. *Qendrën e Gjuhëve të Huaja*

me dy diploma në *Inxhinieri Matematike* dhe *Inxhinieri Fizike.*

Dekan i Fakultetit të Inxhinierisë Matematike dhe Inxhinierisë Fizike zgjidhet Prof. Dr. Shpëtim LEKA.

Pesoneli akademik i FIMIF, duke u bazuar në përvojën e Universiteteve Politeknike të vendeve të tjera, veçanërisht të Universitetit Politeknik të Milanos e

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Torinos, si dhe në përvojën dhe kuafikimin e anëtarëve të stafit akademik, është anagazhuar gjatë viteve në vijim për plotësimin e misionit të këtij fakulteti për *përgatitjen e inxhinierëve cilësorë në të dy fushat e saj të Inxhinierisë Matematike dhe Inxhinierisë Fizike, të aftë për t'u integruar në tregun specifik të punës.*

Për realizimin e këtij misioni ishte i domosdoshëm thellimi i njohurive të fituara në ciklin e parë, nëpërmjet programeve të studimit të Ciklit të Dytë *Master i Shkencave* dhe të Ciklit të Tretë *Doktoraturë*. Këto prgrame synonin përgatitjen e inxhinierëve cilësorë me formim ndërdisiplinor, të aftë për t'u përballur me probleme që përdorin metodologji dhe mjete të ofruara nga sektorë të ndryshëm të Matematikës së Aplikuar si dhe të gatshëm për të përballuar futjen e teknologjive të reja dhe komplekse, duke shfrytëzuar në mënyrë inxhinierike metodologjitë që ofrojnë sektorët e ndryshëm të Fizikës së Zbatuar.

Kështu, bazuar në VKM-në, Nr. 910, datë 26.08.2009, "*Për hapjen e programeve të Studimit të Ciklit të Dytë, në Universitetin Politeknik të Tiranës*", nisi *në vitin akademik* 2009-2010 rrugëtimi i programeve të Studimit të Ciklit të Dytë:

- *Master i Shkencave në Inxhinieri Matematike*, me 21 studentë
- *Master i Shkencave në Inxhinieri Fizike*, me 18 studentë.

Në zbatim të Urdhërit, të Ministrit të Arsimit dhe Shkencës, Z. Myqerem Tafaj, Nr. 605, datë 29.12.2010, filluan në vitin akademik 2010-2011, Programet e Studimit të Ciklit të Tretë, të hartuara sipas Ligjit Nr.9741, datë 21.5.2007 "*Për Arsimin e Lartë në Republikën e Shqipërisë, i ndryshuar*":

- *Doktoraturë në Inxhinieri Matematike* (në dy drejtime; *Analizë Numerike dhe Ekuacione diferenciale* / *Kërkime Operacionale dhe Statistikë*), me 17 studentë.
- *Doktoraturë Inxhinieri Fizike* (në dy drejtime; *Optikë e zbatuar* / *Fizika e Materialeve*), me 11 studentë.

Studimet e Ciklit të tretë synonin përgatitjen e mëtejshme nga ana shkencore në fushën e Analizës numerike dhe Ekuacioneve Diferenciale, të Kërkimeve Operacionale dhe Statistikë, si dhe në fushën e Optikës së Zbatuar dhe të Fizikës së Materialeve.

Duke patur parasysh nevojat e reja të tregut të punës si dhe mungesën e profesionistëve, të aftë të përballen me koncepte bashkëkohore, si dhe me zgjidhjen e problemeve që lidhen, ndër të tjera, me menaxhimin e sistemeve komplekse; trajtimet klinike dhe kontrollin e cilësisë së pajisjeve mjekësore; analizën e pasojave financiare të riskut, nëpërmjet matematikës, statistikës dhe teorive financiare, u hartuan programet e Studimit të Ciklit të Dytë *Master Profesional* në:

- *Inxhinieri Matematike në Analiza Sistemesh*
- *Inxhinieri Fizike në Mjekësi*
- *Inxhinieri Matematike Profili Aktuaristikë*

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Bazuar në Urdhërin e Ministrit të Arsimit dhe Shkencës, Z. Myqerem Tafaj, Nr. 597, datë 09.12.2011, "*Për hapjen e programeve të Studimit të Ciklit të Dytë Master Profesional, të Universitetit Politeknik të Tiranës*", në vitin akademik 2012-2013, filluan Programet e Studimit të Ciklit të Dytë, të hartuara sipas Ligjit Nr. 9741, datë 21.5.2007 "*Për Arsimin e Lartë në Republikën e Shqipërisë, i ndryshuar*"**:**

- *Master Profesional në Inxhinieri Matematike në Analiza Sistemesh* me 14 studentë.
- *Master Profesional në Inxhinieri Fizike në Mjekësi* me 12 studentë.

ndërsa në vitin akademik 2015-2016, në zbatim të Urdhërit të Ministrit të Arsimit dhe Sportit, Znj. Lindita Nikolla, Nr. 274, datë 20.07.2015, "*Për hapjen e programit të Studimit të Ciklit të Dytë Master Profesional në Inxhinieri Matematike me Profil Aktuaristikë, në Universitetin Politeknik të Tiranës*", filloi Programi i Studimit të Ciklit të Dytë,

- *Master Profesional në Inxhinieri Matematike, Profili Aktuaristikë* me 28 studentë.

Bazuar në Urdhërin e Ministrit të Arsimit dhe Shkencës, Znj. Evis Kushi, Nr. 334, datë 04.07.2023, "*Për hapjen e programeve të Studimit të Ciklit të Parë "Bachelor" Në Inxhinieri Kimike", në Universitetin Politeknik të Tiranës*", në vitin akademik 2023-2024, filloi Programi i Studimit të Ciklit të Parë, i hartuar sipas Ligjit Nr. 80/2015, datë 22.07.2015 "*Për Arsimin e Lartë dhe kërkimin shkencor në institucionet e arsimit të lartë në Republikën e Shqipërisë":*

- "*Bachelor" në Inxhinieri Kimike.*

Gjatë këtyre viteve personeli akademik ka punuar me përkushtim për transmetimin tek studentët të një informacioni sa më cilësor e bashkëkohor në të gjitha disiplinat mësimore e lëndët me karakter të theksuar praktik, duke realizuar ciklin *informacion-njohuri-dije-aftësi*.

Krahas mësimdhënies, një prej dimensioneve të rëndësishme në FIMIF është kërkimi shkencor në përputhje me filozofinë dhe misionin e UPT-së, në përputhje me interesat e universitetit, të personelit akademik dhe të studentëve. Synimi kryesor i veprimtarisë kërkimore shkencore ka qenë dhe mbetet përmirësimi i vazhdueshëm i përmbajtjes së procesit mësimor, si edhe ngritjes së vazhdueshme të standardeve akademike në FIMIF. Mbështetur në objektivat dhe qëllimet e veprimtarisë kërkimore shkencore, si dhe në parimin e lirisë së ushtrimit të veprimtarisë shkencore dhe mësimdhënies akademike, personeli akademik i FIMIF ka realizuar një punë hulumtuese sistematike për kërkimin dhe zhvillimin e njohurive të reja, shfrytëzimin dhe zbatimin e tyre në praktikë. Gjithashtu vëmendje i është kushtuar edhe transferimit të dijeve nëpërmjet publikimit të rezultateve në revista shkencore dhe pjesëmarrjes në konferenca kombëtar dhe ndërkombëtare. Publikimi i rezultateve të punës kërkimore në revistave shkencore dhe pjesëmarrjes në konferenca kombëtare dhe ndërkombëtare, të vlerësuara nga personeli akademik si nxitje e debatit shkencor jo vetëm mes komunitetit akademik të fakultetit, por edhe dhe atij shqiptar e të huaj, është shoqëruar me një numër të

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konsiderueshëm prezantimesh dhe botimesh cilësore, duke ndikuar në kualifikimin e vazhdueshëm shkencor të personelit akademik.

Veprimtaria mësimore dhe kërkimore në fakultet është realizuar si nëpërmjet bashkëpunimit me Institucionet e Arsimit të Lartë brenda dhe jashtë vendit, me institucionet e tjera shtetërore, organizata profesionale dhe komunitetin e biznesit, ashtu edhe nëpërmjet projekteve kombëtare dhe ndërkombëtare

Sot personeli akademik i fakultetit përbëhet nga ***45 anëtarë*** që i përkasin kategorisë ***Profesorë*** (me tituj akademik *Profesor*, *Profesor i Asociuar*), ***18 anëtarë*** të kategorisë ***Lektor*** (me gradë shkencor *Doktor*), ***7 anëtarë*** të kategorisë ***Asistent - Lektor*** (me diplomë *Master i Shkencave*).

Gjatë këtyre 17 viteve funksionim të fakultetit, përveç personelit akademik aktual, kanë dhënë kontributin e tyre të çmuar edhe mjaft profesorë të njohur si psh.: Prof. Dr. Shpëtim Leka, Prof. Dr. Jorgo Malita, Prof. Dr. Avdyl Haxhimusai, Prof. Dr. Vladimir Jorgji, Prof. Dr. Viktor Kabili, Prof. Dr. Kristaq Filipi, Prof. Dr. Shpëtim Bozdo, Prof. Dr. Margarita Qirko, Prof. Dr. Shpëtim Shehu, Prof. Asoc. Luigj Gjoka, Prof. Asoc. Ligor Nikolla, Prof. Dr. Agron Tato, Prof. Dr. Tatiana Mulaj, Prof. Dr. Pëllumb Berberi, Prof. Dr. Afërdita Veveçka, Prof. Asoc. Ilir Vullkaj, Prof. Asoc. Petrit Berhami, Prof. Asoc. Elenica Angjeli, Prof. Asoc. Engjëllushe Luzi, Prof. Asoc. Edlira Mulla, Dr. Edmond Frashëri, Prof. Vasil Zejno, Koço Zhuka, Vladimir Suljoti, Dr. Syti Hysko, Prof. Dr. Elton Pasku.

FIMIF gjatë këtyre viteve është drejtuar nga Dekani i Fakultetit, i mbështetur nga zëvendës dekanët si dhe drejtuesit e departamenteve:

- ***Dekani Fakultetit***

Prof. Dr. Tatjana MULAJ	2007 - 2009
Prof. Dr.Shpëtim LEKA	2009 - 2014
Prof. Asoc. Ligor NIKOLLA	2014 – 2020
Prof. Dr. Shkëlqim KUKA	2020-2024
Prof. Dr. Kostaq HILA	2024-në vazhdim

- **Zëvendës Dekan i Fakultetit**

Prof. Asoc. Ligor NIKOLLA	2007 – 2009
Prof. Dr. Tatjana MULAJ	2009 – 2014
Prof. Asoc. Dhurata KUQI	2014 në vazhdim
Prof. Asoc. Valbona LAME (MUDA)	2020-2024
Prof. Asoc. Teuta MYFTIU (BUDLLA)	2024- në vazhdim

- ***Drejtues i Departamentit të Matematikës/Inxhinierisë Matematike***:

Prof. Dr.Shpëtim LEKA	2008 – 2009
Prof. Asoc. Ligor NIKOLLA	2009 – 2014

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Dr. Adrian NAÇO	2014 - 2016
Prof. Dr. Shkëlqim KUKA	2016 – 2020
Prof. Dr. Luela PRIFTI	2020-2024
Prof. Asoc. Alfred DACI	2024-në vazhdim

- ***Drejtues i Departamentit të Fizikës dhe Kimisë***

Prof. Dr. Pëllumb BERBERI	2008 - 2009
Prof. Asoc. Petrit BERHAMI	2009

- ***Drejtues i Departamentit të Inxhinierisë Fizike***

Prof. Asoc. Petrit BERHAMI	2009
Prof. Asoc. Dhurata KUQI	2009 – 2013
Prof. Dr. Partizan MALKAJ	2013 – 2020
Prof. Asoc. Altin GJEVORI	2020 në vazhdim

- ***Drejtues i Departamentit të Kimisë/ Inxhinierisë Kimike***

Prof. Asoc. Rajmonda LILO	2009 - 2020
Prof. Asoc. Edlira BARAJ	2020 në vazhdim

- ***Drejtues i Qendrës së Gjuhëve të Huaja***

Prof. Dr. Fatmir VRAPI	2008 në vazhdim

History of the Faculty's Establishment

The Faculty of Mathematical Engineering and Physical Engineering is one of the most recent faculties in the academic structure of the Polytechnic University of Tirana (PUT). The efforts to establish this faculty were initiated on October 4, 2004, when Rector Prof. Dr. Përparim Hoxha issued Order No. 83 Prot., titled "*Formation of the Working Group for the Reorganization of Departments at the Rectorate in Line with the University's Reform Objectives Following the Principles of the Bologna Declaration*." The working group consisted of members from the Departments of Mathematics and Informatics, Physics, and Chemistry. Led by Prof. Dr. Shpëtim Leka, the team comprised Prof. Dr. Lumturi Kapllani, Prof. Dr. Tatjana Mulaj, Assoc. Prof. Engjëllushe Luzi, Prof. Dr. Shpëtim Shehu, Prof. Dr. Lulzim Hanelli, and Assoc. Prof. Petrit Berhami. Drawing from the experiences of polytechnic universities worldwide, especially those in Milan and Turin, the group proposed the creation of two interdisciplinary degree programmes:

- **Mathematical Engineering** under the Department of Mathematics and Informatics
- **Physical Engineering** under the Department of Physics.

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This proposal was approved by the PUT Senate through Decision No. 17 on May 4, 2005, and was subsequently validated by the Minister of Education and Science, Mr. Luan Memushi, through Document No. 5354 Prot., and 5355, dated August 22, 2005.

Thus, the following programmes were launched in the 2005–2006 academic year:

- **Mathematical Engineering**: A three-year undergraduate programme with 31 students and 32 internal and 26 external lecturers at the Department of Mathematics and Informatics.
- **Physical Engineering**: A three-year undergraduate programme with 30 students and 16 internal and 32 external lecturers at the Department of Physics.

In line with the strategy of PUT, which includes teaching, scientific research, providing services, and meeting the needs of PUT students, as well as within the framework of implementing the Bologna Declaration, alongside preparations aimed at organizing new contemporary curricula, the reorganization of the faculties of PUT itself was also essential.

The year 2006 saw the formation of an expanded working group that included the leadership from the faculties of Mechanical Engineering, Electrical Engineering, Geology-Mining Engineering, Civil Engineering, as well as the Chancellor of PUT. This group advocated for the establishment of the **Faculty of Mathematical Engineering and Physical Engineering** at PUT.

Mission:

1. To prepare highly skilled engineers in these two fields capable of integrating into the specific job market (national and international).

2. To support the academic workload in mathematics and physics disciplines across PUT.

The PUT Senate approved this proposal through Decision No. 6 on March 3, 2006.

Subsequently, the Council of Ministers issued Decision No. 824 on December 5, 2007, which authorized the creation of the **Faculty of General Education** as an associate faculty.

This new faculty incorporated:

- The Department of Physics and Chemistry,
- The Department of Mathematics,
- The Center of Foreign Languages, while recognizing the Mathematical and Physical Engineering degrees as interdisciplinary.

Prof. Dr. Tatjana Mulaj was appointed the first Dean of this faculty.

However, the name **Faculty of General Education** and its status as an associate faculty did not align with the vision and mission for which the Faculty of Mathematical and Physical Engineering was proposed. During 2008–2009

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academic year, the Dean's Office, Council, and academic staff, supported by the student body and the PUT Rectorate, petitioned for the change in both the status and name, arguing that the Faculty of General Education could not fulfill its mission.

Following persistent efforts, the Council of Ministers issued Decision No. 345 dated on April 8, 2009, which approved the establishment of the **Faculty of Mathematical and Physical Engineering**.

This faculty includes:

1. The Department of Mathematical Engineering,
2. The Department of Physical Engineering,
3. The Department of Chemistry,
4. The Center of Foreign Languages.

The faculty offers two degree programmes: Mathematical Engineering and Physical Engineering.

Prof. Dr. Shpëtim Leka was elected as the first Dean of the faculty.

The Faculty of Mathematical Engineering and Physical Engineering (FMEPE) has a dedicated academic staff that has been influenced by the practices of Polytechnic Universities abroad, particularly the Polytechnic University of Milan and the Polytechnic University of Turin.

This faculty has harnessed the expertise and qualifications of its members to pursue its core mission: to prepare highly competent and skilled engineers in Mathematical Engineering and Physical Engineering, capable of integrating into their respective labor markets.

To achieve this mission, it was crucial to deepen the knowledge acquired during the first cycle of studies through the Second Cycle Master of Science programmes and Third Cycle Doctoral programmes. These programmes are designed to prepare high-quality engineers with interdisciplinary training, capable of tackling problems using methodologies and tools provided by various sectors of Applied Mathematics, and ready to address the introduction of new and complex technologies by leveraging the methodologies offered by various sectors of Applied Physics in an engineering context.

Thus, based on Decision of the Council of Ministers (DCM) No. 910, dated August 26, 2009, "*On the opening of Second Cycle Study Programmes at the Polytechnic University of Tirana*", the journey of the Second Cycle Study Programmes began in the 2009-2010 academic year featuring two master's programmes:

- **Master of Science in Mathematical Engineering**, with 21 students.
- **Master of Science in Physical Engineering**, with 18 students.

In accordance with the Order of the Minister of Education and Science, Mr. Myqerem Tafaj, No. 605, dated December 29, 2010, the Third Cycle Study Programmes, developed in compliance with Law No. 9741, dated May 21, 2007, "*On Higher Education in the Republic of Albania, as amended*", commenced in the 2010-2011 academic year:

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- **Doctorate in Mathematical Engineering** (in two specializations: Numerical Analysis and Differential Equations / Operational Research and Statistics), with 17 students.
- **Doctorate in Physical Engineering** (in two specializations: Applied Optics / Material Physics), with 11 students.

The Third Cycle studies were designed to enhance scientific expertise in the fields of Numerical Analysis, Differential Equations, Operational Research, and Statistics, as well as in the sectors of Applied Optics and Material Physics.

In light of the evolving demands of the labor market and the existing shortage of professionals capable of addressing contemporary concepts and solving problems related to, among other things, the management of complex systems; clinical treatments and quality control of medical equipment; and analyzing the financial implications of risk through mathematics, statistics, and financial theories, new Second Cycle Professional Master programmes were designed in:

- **Mathematical Engineering in Systems Analysis**
- **Physical Engineering in Medicine**
- **Mathematical Engineering with an Actuarial Profile**

In accordance with the Order issued by the Minister of Education and Science, Mr. Myqerem Tafaj, No. 597, dated December 9, 2011, "*On the opening of Second Cycle Professional Master programmes at the Polytechnic University of Tirana*", the Second Cycle Study Programmes commenced in the 2012-2013 academic year. These programmes were designed in alignment with Law No. 9741, dated May 21, 2007, "*On Higher Education in the Republic of Albania, as amended*".

The programmes included:

- **Professional Master in Mathematical Engineering in Systems Analysis**, with 14 students.
- **Professional Master in Physical Engineering in Medicine**, with12 students.

Subsequently, in the 2015-2016 academic year, following the Order of the Minister of Education and Sports, Mrs. Lindita Nikolla, No. 274, dated July 20, 2015, "*On the opening of the Second Cycle Professional Master programme in Mathematical Engineering with an Actuarial Profile at the Polytechnic University of Tirana*", the following programme was launched:

- **Professional Master in Mathematical Engineering with an Actuarial Profile**, with 28 students.

Additionally, based on the Order issued by the Minister of Education and Science, Mrs. Evis Kushi, No. 334, dated July 4, 2023, "*On the opening of First Cycle 'Bachelor' Study Programmes in Chemical Engineering at the Polytechnic University of Tirana*", another programme was approved and began in the 2023-2024 academic year, which was developed in compliance with Law No. 80/2015, dated July 22, 2015, "*On Higher Education and Scientific Research in Higher Education Institutions in the Republic of Albania*". The programme launched was:

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- **Bachelor in Chemical Engineering**

Throughout these years, the academic staff has demonstrated a commitment to equipping students with high-quality, contemporary knowledge across various academic disciplines and practice-oriented subjects, thereby successfully completing the cycle of information-knowledge-competence-skills.

In addition to teaching, one of the key dimensions at FMEPE is scientific research, aligned with the philosophy and mission of PUT, as well as the interests of the university, academic staff, and students. The primary objective of scientific research activities has always been and remains the continuous improvement of the content of the educational process, and the ongoing elevation of academic standards at FMEPE.

Based on the objectives and goals of scientific research activities, and adhering to the principle of freedom in conducting scientific research and academic teaching, the academic staff at FMEPE has carried out systematic investigative work to explore and develop new knowledge, apply it in practice, and implement it effectively. Furthermore, significant attention has been devoted to knowledge transfer through publishing research results in scientific journals and participating in national and international conferences.

Publishing research results in scientific journals and participating in national and international conferences, valued by the academic staff as a means to foster scientific debate not only within the faculty's academic community but also with Albanian and international communities, has resulted in a significant number of high-quality presentations and publications. This has contributed to the continuous scientific qualification of the academic staff.

The faculty's teaching and research activity has been conducted in collaboration with Higher Education Institutions both within the country and abroad, as well as with governmental bodies, professional organizations, and the business sector, in addition to participating in various national and international projects.

Currently, the academic staff of the faculty consists of 45 members in the Professor category (who hold the academic titles of Professor or Associate Professor), 18 members in the Lecturer category (who hold a Doctorate degree), and 7 members in the Assistant Lecturer category (who hold a M.Sc. degree).

During these 17 years of the faculty's operation, in addition to the current academic staff, many renowned professors have also contributed their valuable expertise, such as: Prof. Dr. Shpëtim Leka, Prof. Dr. Jorgo Malita, Prof. Dr. Avdyl Haxhimusai, Prof. Dr. Vladimir Jorgji, Prof. Dr. Viktor Kabili, Prof. Dr. Kristaq Filipi, Prof. Dr. Shpëtim Bozdo, Prof. Dr. Margarita Qirko, Prof. Dr. Shpëtim Shehu, Assoc. Prof. Luigj Gjoka, Assoc. Prof. Ligor Nikolla, Prof. Dr. Agron Tato, Prof. Dr. Tatiana Mulaj, Prof. Dr. Pëllumb Berberi, Prof. Dr. Afërdita Veveçka, Assoc. Prof. Ilir Vullkaj, Assoc. Prof. Petrit Berhami, Assoc. Prof. Elenica Angjeli, Assoc. Prof. Engjëllushe Luzi, Assoc. Prof. Edlira Mulla, Dr. Edmond Frashëri, Prof. Vasil Zejno, Koço Zhuka, Vladimir Suljoti, Dr. Syti Hysko, Prof. Dr. Elton Pasku.

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During these years, FMEPE has been led by the Dean of the Faculty, supported by the vice deans and the heads of the departments.

- ***Dean of the Faculty***

Prof. Dr. Tatjana MULAJ	2007 - 2009
Prof. Dr. Shpëtim LEKA	2009 - 2014
Assoc. Prof. Ligor NIKOLLA	2014 – 2020
Prof. Dr. Shkëlqim KUKA	2020-2024
Prof. Dr. Kostaq HILA	2024-onwards

- ***Vice Deans of the Faculty***

Assoc. Prof. Ligor NIKOLLA	2007 – 2009
Prof. Dr. Tatjana MULAJ	2009 – 2014
Assoc. Prof. Dhurata KUQI	2014 - onwards
Assoc. Prof. Valbona LAME (MUDA)	2020-2024
Assoc. Prof. Teuta MYFTIU (BUDLLA)	2024- onwards

- ***Head of The Department of Mathematics/Mathematical Engineering***

Prof. Dr.Shpëtim LEKA	2008 – 2009
Assoc. Prof. Ligor NIKOLLA	2009 – 2014
Dr. Adrian NAÇO	2014 - 2016
Prof. Dr. Shkëlqim KUKA	2016 – 2020
Prof. Dr. Luela PRIFTI	2020-2024
Assoc. Prof. Alfred DACI	2024- onwards

- ***Head of The Department of Physics and Chemistry***

Prof. Dr. Pëllumb BERBERI	2008 - 2009
Assoc. Prof. Petrit BERHAMI	2009

- ***Head of The Department of Physical Engineering***

Asoc. Prof. Petrit BERHAMI	2009
Assoc. Prof. Dhurata KUQI	2009 – 2013
Prof. Dr. Partizan MALKAJ	2013 – 2020
Assoc. Prof. Altin GJEVORI	2020 - onwards

- ***Head of The Department of Chemistry/Chemical Engineering***

Assoc. Prof. Rajmonda LILO	2009 - 2020
Assoc. Prof. Edlira BARAJ	2020 - onwards

- ***Head of Center of Foreign Languages***

Prof. Dr. Fatmir VRAPI	2008 - onwards

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KONFERENCA TË ORGANIZUARA NGA FIMIF/
CONFERENCES ORGANISED BY FMEPE

1. NATIONAL CONFERENCE "ADVANCED STUDIES IN MATHEMATICAL PHYSICAL AND CHEMICAL ENGINEERING", 28 October 2011. PUT. Tirana, Albania.
2. THE 1ST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, NEW TECHNOLOGIES AND APPLICATIONS IN MEDICINE (NTAM)", 7-8 November 2014, Tirana, Albania.
3. THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November 2017, Tirana, Albania.
4. THE 3rd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.
5. WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2024), 6-7 September 2024, Tirana, Albania

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DEPARTMENT OF MATHEMATICAL ENGINEERING

The Department of Mathematical Engineering currently consists of 30 academic staff members:

Prof. Dr. Akli Fundo
Prof. Dr. Kostaq Hila
Prof. Dr. Luela Prifti
Prof. Dr. Shkëlqim Kuka
Assoc. Prof. Alfred Daci
Assoc. Prof. Anita Çaushi
Assoc. Prof. Artion Kashuri
Assoc. Prof. Brikena Xhaja
Assoc. Prof. Denisa Salillari
Assoc. Prof. Endri Raço
Assoc. Prof. Etleva Llagami
Assoc. Prof. Evgjeni Xhafaj
Assoc. Prof. Kleida Haxhi
Assoc. Prof. Oriana Zaçaj
Assoc. Prof. Raimonda Dervishi
Assoc. Prof. Saimir Tola
Assoc. Prof. Sandër Kovaçi
Assoc. Prof. Teuta Myftiu
Dr. Adrian Naço
Dr. Agron Gjana
Dr. Albina Basholli
Dr. Anila Peposhi
Dr. Elda Maraj
Dr. Erjola Cenaj
Dr. Ervelina Musta
Dr. Zhifka Muka
M.Sc. Armida Brakaj
M.Sc. Fizeleni Lekli
M.Sc. Roberto Datja

Departamenti i Inxhinierisë Matematike në Universitetin Politeknik të Tiranës synon të ofrojë një edukim të thelluar dhe cilësor në fushën e matematikës dhe aplikimeve të saj në inxhinieri. Objektivat kryesore të departamentit përfshijnë:

1. **Formimin e specialistëve të kualifikuar**: Ofrimi i një programi akademik që zhvillon aftësitë analitike dhe teknike të studentëve, për t'i përgatitur ata për sfida profesionale në fusha të ndryshme inxhinierike.
2. **Zhvillimi i kërkimit shkencor**: Nxitja e kërkimit dhe zhvillimit të aplikimeve të avancuara të matematikës, duke kontribuar në përparimin e njohurive dhe teknologjive të reja.
3. **Përgatitja për punë në industri dhe akademi**: Sigurimi i aftësive të nevojshme që studentët të mund të kontribuojnë në sektorët ekonomikë dhe industrialë, si dhe të zhvillojnë karrierë akademike dhe kërkimore.
4. **Rritja e bashkëpunimit ndërkombëtar**: Inkurajimi i partneriteteve me institucione të tjera akademike dhe kërkimore për shkëmbim njohurish dhe përvojash.

Në përgjithësi, Departamenti i Inxhinierisë Matematike synon të ofrojë një edukim dhe trajnim të qëndrueshëm, i cili do t'u mundësojë studentëve të aplikojnë teknikat matematike në zgjidhjen e problemeve komplekse të inxhinierisë, si dhe synon të kontribuojë në zgjerimin e fushave të ekspertizës së UPT-së.

Veprimtaria e Departamentit të Inxhinierisë Matematike në Universitetin Politeknik të Tiranës (UPT) është e përqendruar kryesisht në: **Mësimdhënie** (Algjebër dhe analizë matematike, Matematika e Aplikuar, Statistikë dhe Probabilitet, Analizë Numerike dhe Algoritme, Modele Matematike në Inxhinieri etj); **Kërkim Shkencor** (Zhvillimi i kërkimeve të avancuara në fushat e: Matematikës së Aplikuar, Optimizimit dhe Kërkimit Operacional, Simulimeve numerike dhe modelimit matematik, Analizës së të dhënave dhe aplikimeve të statistikës, Bashkëpunime ndërkombëtare për projekte kërkimore në STEM (Shkencë, Teknologji, Inxhinieri dhe Matematikë)); **Shërbime dhe Konsulencë** (Ofrimi i konsulencës për institucionet publike dhe private në fusha që kërkojnë zgjidhje matematike dhe statistikore);

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Përgatitja e Kuadrove të Rinj (Mbështetja e studentëve dhe doktorantëve në realizimin e kërkimeve të specializuara në matematikën inxhinierike).

Profilet kërkimore kryesore të DIM në të cilat është orientuar puna e thelluar kërkimore dhe ofrimi i studimeve të ciklit të tretë janë:

1. Modelime inxhinierike, analizë matematike dhe numerike në ekuacionet diferenciale.
2. Metoda të matematikës llogaritëse (kompjutacionale) dhe njehsime variacionale.
3. Metodat Statistikore dhe kërkime operacionale.
4. Analizë hapësinore etj.

Ky departament mbulon gjithë disiplinat matematike që zhvillohen në të gjitha programet e studimit të Universitetit Politeknik të Tiranës.

The Department of Mathematical Engineering at the Polytechnic University of Tirana aims to provide comprehensive and high-quality education in mathematics and its applications in engineering. The department's main objectives include:

1. **Training Qualified Specialists**: Offering an academic programme that develops students' analytical and technical skills, preparing them to tackle professional challenges in various engineering fields.
2. **Advancing Scientific Research**: Promoting research and the development of advanced mathematical applications, contributing to the advancement of knowledge and new technologies.
3. **Preparing Students for Industry and Academia**: Equipping students with the necessary skills to contribute to economic and industrial sectors, as well as to pursue academic and research careers.
4. **Enhancing International Collaboration**: Encouraging partnerships with other academic and research institutions to foster knowledge and experience exchange.

In general, the Department of Mathematical Engineering aims to provide sustainable education and training, enabling students to apply mathematical techniques in solving complex engineering problems. Additionally, the department strives to contribute to the expansion of the areas of expertise at the Polytechnic University of Tirana (PUT).

The activities of the Department of Mathematical Engineering at the Polytechnic University of Tirana (PUT) are primarily focused on: **Teaching (**Algebra and Mathematical Analysis, Applied Mathematics, Statistics and Probability, Numerical Analysis and Algorithms, Mathematical Models in Engineering); **Scientific Research** (Applied Mathematics, Optimization and Operational Research, Numerical Simulations and Mathematical Modeling, Data Analysis and Statistical Applications, International collaborations on STEM research projects); **Consulting and Services** (Providing consulting services to public and private institutions in areas requiring mathematical and statistical solutions)**; Training Future Experts** (Supporting students and Ph.D. candidates in conducting specialized research in mathematical engineering).

The main research profiles of the Department of Mathematical Engineering (DIM), which guide its advanced research work and third-cycle study programmes, include:

1. Engineering Modeling, Mathematical and Numerical Analysis in Differential Equations
2. Computational Mathematics Methods and Variational Calculations
3. Statistical Methods and Operational Research
4. Spatial Analysis

The department covers all mathematical disciplines taught across the study programmes 640.at the Polytechnic University of Tirana.

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ARTIKUJ TË PRANUAR PËR BOTIM/PAPERS ACCEPTED FOR PUBLICATION

658. N. Azzouz, B. Benaissa, **A. Kashuri**, "Updating approach to midpoint inequality by using multiplicative absolute value", FILOMAT Vol. 39 (2025), No. 23, In Press.

657. S.K. Sahoo**, A. Kashuri**, S. Mishra, M. Samraiz, "New developments in fractional Hermite-Hadamard inequalities by means of harmonic convexity and computational analysis", FILOMAT Vol. 39 (2025), No. 23, In Press.

656. L. Sadek, **A. Kashuri,** S.K. Sahoo, S. Mishra, "New perspective on Jensen type inequalities pertaining to local fractional derivatives", FILOMAT Vol. 39 (2025), No. 27, In Press.

655. B. Benaissa, N. Azzouz, H. Budak, **A. Kashuri**, "A novel perspective on the Bullen and Milne inequalities through the use of multiplicatively absolute value", FILOMAT Vol. 39 (2025), No. 28, In Press.

654. A. Mateen, **A. Kashuri**, H. Budak, "Error bounds of multiplicative Boole's type inequalities for twice differentiable functions with applications to numerical integration", FILOMAT Vol. 39 (2025), No. 29, In Press.

653. A. Munir, **A. Kashuri**, F. Hezenci, H. Kara, "Novelty Hermite-Hadamard-type inequalities for various convexity functions and their applications", SAHAND COMMUNICATIONS IN MATHEMATICAL ANALYSIS (2025), In Press.

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651. A. Mateen, H. Budak, **A. Kashuri**, Z. Zhang, *Comprehensive study of Weddle's formula-type inequalities for convex functions within the framework of quantum calculus and their computational analysis*, JOURNAL OF INEQUALITIES AND APPLICATIONS, In Press.

650. B.C. Agbata, **E. Cenaj, R. Dervishi,** Y.J. Danjuma, Sh.M. Mary-Anne, A. Emmanuel, J.S. Onuche, H. Emadifar, *"Fractional-Order Mathematical Model for Monkeypox Transmission Dynamics Using the Atangana-Baleanu Caputo Operator",* BMC INFECTIOUS DISEASES, UNITED KINGDOM, In Press.

649. Z. Ali, M. Waqas, **K. Hila**, *Multi-Attributive Border Approximation Area Comparison Model Based on Yager Weighted Aggregation Operators for Circular Pythagorean Fuzzy Information and Their Application in Shortest Path Problems*, JOURNAL OF SUPERCOMPUTING, In Press

648. **K. Hila**, T. Vougiouklis, *Weak hyperstructures in Lie-Santilli admissible*, JOURNAL OF ALGEBRAIC HYPERSTRUCTURES AND LOGICAL ALGEBRAS, In Press.

647. T.R. Mir, M.Y. Abbasi, **K. Hila**, Sh. Ali, *An innovative unique factorization approach of fuzzy fractional ideals in Dedekind domains.* NEW MATHEMATICS AND NATURAL COMPUTATION, In Press.

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646. S. Yazar, S. Onar, E.M. Ozkan, **K. Hila**, *A Novel Study On Intuitionistic Fuzzy 2-Absorbing Primary Ideals of A Lattice,* JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, In Press

645. N. Rehman, A. Ali, **K. Hila**, A. Aslam, *Application of multigranulation* (I_O,O)*-fuzzy rough sets in emergency decision making under* (β,δ)*-fuzzy similarity environment*, SOFT COMPUTING, In Press.

644. . N. Azzouz, B. Benaissa, **A. Kashuri**, *Updating approach to midpoint inequality by using multiplicative absolute value,* FILOMAT, In Press

643. A. Mateen, M. Toseef, **A. Kashuri**, Z. Zhang, *Some new weighted Boole's type inequalities for differentiable generalize convex functions with their applications*, FILOMAT, In Press

642. A. Mateen, **A. Kashuri**, *S. Özcan, A family of Newton–Cotes-type inequalities in multiplicative calculus with their applications to quadrature formulas and numerical analysis*, MATHEMATICAL METHODS IN THE APPLIED SCIENCES, In Press.

641. Z. Ali, H. Bibi, **K. Hila**, *Fraud Detection and Financial Analysis Based on Dombi Aggregation Operators for Neutrosophic Fuzzy Rough Information and Their Applications*, JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, In Press.

640. E. Dashi (Berberi), **E. Xhaferraj (Musta)**, *Roadmap to Backcasting procedures-challenges to be considered during the implementation of NACE Rev. 2 in business survey statistics of Albania (SBS case), as a step towards the next update of NACE Rev. 2.1,* WSEAS TRANSACTION ON BUSINESS AND ECONOMICS, In Press.

639. M. Bolat, E. Kaya, S. Onar, B.A. Ersoy, **K. Hila**, *r-subhypermodules over Krasner hypermodules*, CARPATHIAN MATHEMATICAL PUBLICATION, In Press.

638. M. Khan, S. Khan, M. Zeeshan, **K. Hila**, S. Anis. *Cubic soft matrices with some new operations and applications,* NEW MATHEMATICS AND NATURAL COMPUTATION, 2026. 1-18.

637. **A. Naço, A. Peposhi**, **K. Hila**, S. Onar, B.A. Ersoy, "*On an algebra of fuzzy m-ary semihypergroups*", ANNALS OF THE UNIVERSITY OF CRAIOVA - MATHEMATICS AND COMPUTER SCIENCE SERIES, In Press.

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661. M.U. Awan, **A. Kashuri,** T.M. Rassias, B. Meftah, "Fractional Simpson inequalities involving confluent hypergeometric function and applications", Book: GLOBAL OPTIMIZATION, COMPUTATION, APPROXIMATION AND APPLICATIONS (2026), pp. 203-222.

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659. R.S. Ali, M. Vivas-Cortez, **A. Kashuri**, N. Talib, "New extensions of Hermite-Hadamard and Fejér type inequalities using fuzzy fractional integral operators through different fuzzy convexities", JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE Vol. 40 (2026), No. 4, 456-480.

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658. A. Munir, H. Budak, I. Faiz, L. Rathour, H. Kara, **A. Kashuri,** "A study on Newton-type inequalities for fractional operator and application", PALESTINE JOURNAL OF MATHEMATICS Vol. 14 (2025), No. 1, 298-311.

657. A. Mateen, **A. Kashuri**, S. Özcan, "A family of Newton-Cotes-type inequalities in multiplicative calculus with their applications to quadrature formulas and numerical analysis", MATHEMATICAL METHODS IN THE APPLIED SCIENCES Vol. 48 (2025), No. 11, 11496-11514.

656. M. Toseef, **A. Kashuri**, "Analyzing Boole's type inequalities for general convex functions via generalized fractional integrals with their computational analysis and applications", FILOMAT Vol. 39 (2025), No. 7, 2367-2383.

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Reviewer (editorial board) of the papers published in the PROCEEDINGS OF INTERNATIONAL CONFERENCE ON APPLIED SCIENCES AND ENGINEERING 2017 (ICEAS-2017), 16-17 November 2017, organized by FMEPE, PUT, 2017, Tirana, Albania.
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Referee on applications for Kuwait Prize (the field of Islamic Scientific Heritage Sciences "Basic-Applied-Mathematics") awarding from *KUWAIT FOUNDATION FOR THE ADVANCEMENT OF SCIENCE (KFAS), KUWAIT*, April 2017
External Reviewer of PhD Thesis for SCHOOL OF MATHEMATICAL SCIENCES, UNIVERSITY OF SCIENCE & TECHNOLOGY OF CHINA, Hefei, China, May 2016 (PhD student: FAISAL YOUSAFZAI)
External Examiner to evaluate the Ph.D. Thesis of the scholar, Mr./Ms.Ramesh A, "*Uncertain multiplicative linguistic soft sets, belief interval-valued soft set in fuzzy expert system and their applications",* Anna University, Chennai, India. September 2019

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External Reviewer, Member of Technical Review Panel for appointment on tenure track scheme of Dr. Shafaq Naz to Associate Professor, University of Gujrat, Pakistan, June 2022

Reviewer (referring) of peer-review journals:

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Complex & Intelligent Systems
International Journal of Neutrosophic Science (IJNS)
Soft Computing
Journal of Algebra and Its Applications
Mathematics
AIMS Mathematics
Filomat
Journal of Algebra and Related Topics
Journal of Ambient Intelligence and Humanized Computing
International Journal of Fuzzy Logic and Intelligent Systems
TWMS Journal of Applied and Engineering Mathematics
Automatika
AKCE International Journal of Graphs and Combinatorics
Bulletin of the Section of Logic
Journal of Function Spaces
Advances and Applications in Mathematical Sciences
Iranian Journal of Mathematical Chemistry
Mathematical Sciences Letters
Missouri Journal of Mathematical Sciences
WSEAS Transactions on Mathematics
Journal of Algebraic Hyperstructures and Logical Algebras
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Bollettino dell'Unione Matematica Italiana (BUMI)
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PLOS One
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3. A. Kashuri

Reviewer of the JOURNAL OF APPLIED MATHEMATICS AND COMPUTING WITH APPLICATION.
Reviewer of the JOURNAL OF FUNCTION SPACES.
Reviewer of the JOURNAL "FRACTAL AND FRACTIONAL.
Reviewer of the JOURNAL "SYMMETRY".
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4. Sh. Kuka

Reviewer*:* Bulletini i Shkencave Teknike, UPT.
Reviewer in the editorial review group for the publication of the *Proceedings of the International Conference on Applied Sciences and Engineering 2017 (ICEAS-2017)*, held on the 16th and 17th of November 2017, organized by the Faculty of Mathematical Engineering and Physical Engineering (FIMIF), Polytechnic University of Tirana, 2017, Tirana, Albania.

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5. E. Raço

Reviewer: THE R JOURNAL, ISSN: 2073-4859; SEAS Transactions on Mathematics , Print ISSN: 1109-2769, E-ISSN: 2224-28; OSJI Open Science Journal, ISSN 2466-4308 (Online); Qeios, ISSN 2632-3834

6. L. Prifti

Reviewer*:* BULETIN SHKENCOR TË UNIEL

7. D. Salillari

Reviewer: ADVANCED ENGINEERING SCIENCE (E-ISSN: 2791-8580);
Reviewer of the JOURNAL OF ADVANCES IN MATHEMATICS: (E-ISSN: 2347-1921)

8. A. Daci

Reviewer: JOURNAL OF MATHEMATICS AND COMPUTER SCIENCE (JMCS);
Reviewer of the MATHEMATICS AND STATISTICS (ISSN 2332-2144)

9. E. Xhafaj

Reviewer: INTERDISCIPLINARY JOURNAL OF RESEARCH AND DEVELOPMENT.

10. A. Naço

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11. S. Kovaçi

External Reviewer of the Ph.D Thesis titled "*Study of the Relationship between Quality Assurance and Internationalization Processes at the Third Level of Higher Education*", Submitted in partial fulfillment for the Degree of Doctor of Philosophy (PhD) in Education Sciences by the Ph.D Candidate: Msc. Pikria Vardosanidze, TBILISI STATE UNIVERSITY, Georgia, June 2022.

12. R. Dervishi

Reviewer: WSEAS TRANSACTIONS ON ENVIRONMENT AND DEVELOMENT

Member of Editorial Board of the EDELWEISS APPLIED SCIENCE AND TECHNOLOGY.

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- The FP7 Project SEERA-EI, 2009-2014 **(A. Fundo, co-cordinator)**
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- Project "IT GOVERNANCE FOR ALBANIAN UNIVERSITY (ITG4AU)" (as part of ERASMUS+ Capacity Building Projects, 585578-EPP-1-2017-1-ES-EPPKA2-CBHE-JP) **(A. Fundo, member)**
- The project: "*Construction and functioning of a modern ICT system for creation, saving, exchanging and publication of information*". (National Programs of Researches and Development), 2007-2009. **(K. Hila, director)**
- The project*:* "*Innovative STEM teaching practices in Albania towards European Integration"* with reference number 101085776 — ISTA-EU in the framework of the grant: ERASMUS-JMO-2022-MODULE — Jean Monnet Actions in the field of Higher Education: Modules, 2022-2025. (**E. Raço, J. Jani(coordinator), K. Hila**)
- The project*:* "*Digital education in Albanian universities to provide high-quality life-long learning opportunities: an European approach"* with reference number 101127005 — ISTA-EU in the framework of the grant: ERASMUS-JMO-2023-MODULE — Jean Monnet Actions in the field of Higher Education: Modules. 2023-2026. (**E. Raço(coordinator), J. Jani**, **K. Hila**)
- "*Updating and Publishing the Vulnerability Map of Groundwater in Albania*", funded by the National Agency of Technology and Innovation (AKTI) and the Polytechnic Uni versity of Tirana 2023 (**E. Raço,** A. Beqiraj, H. Beshku, E. Dindi, D. Zeqiraj, H. Çadraku, Sh. Nazaj, Dh. Ndreko, F. Gjoka, M. Cenameri, A. Jahja, R. Mumajesi, E. Ndreca).

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- Member of the international research group in the study: "*Predictive Modelling: Migration Impact on the Albanian Workforce and Skills Development Needs from a Gender Perspective in Albania*" supported by IOM (01/2022–12/2022) (**E. Raço**)

- Author of "*Social Housing in Albania: Situation Assessment*" supported by UNDP. (01/2016–05/2016) (**E. Raço**)

- Participation in a teaching mobility under the Erasmus+ KA107 program at Ondokuz Mayis University from 13.06.2022 to 17.06.2022 in Samsun, Turkey. (**A. Kashuri)**

- Participation in a training mobility under the Erasmus+ program at the University of Granada from 10.07.2023 to 14.07.2023 in Granada, Spain. (**A. Kashuri)**
- Pharem – Development and Application of an Advanced Oxidation Process-Based System for the Treatment of Hospital Wastewater Aimed at Removing Highly Persistent Pharmaceutical Compounds from the Aquatic Environment - INTERREG IPA Cross Border Albania-Greece(01.09.2018–31.08.2020)**(A. Kashuri)**

- Participation in the program Erasmus + and bilateral agreements KA107, "*Staff Mobility in the Summer School for University Didactics for Young Lecturers.*", University of Siegen, Germany**,** June 19 – June 23, 2023. **(A. Çaushi, E. Musta)**

- "*Establishment of an Online Statistical Database for Tourism and Application of the Model in the Accommodation Sector*." As part of the "Fundamental Research and Excellence" projects, 2012. **(A. Naço)**

- "*Developing Differential Mathematical Models for the Spread of Epidemic Diseases - Focus on the Covid-19 Pandemic. Real-Time Design and Evaluation of Control Measure Effectiveness*." 2024. (**L. Hanelli, A. Fundo, F. Osmani, S. Tola, A. Daci**)

- "*Advanced Numerical Methods for the Simulation of Synthetic Materials***,** 2024" **(S. Tola, A. Daci**)

- Doctorate in Mathematical Engineering: "*Building Differential Mathematical Models for the Spread of Epidemic Diseases - Focus on the Covid-19 Pandemic. Real-Time Design and Evaluation of Control Measure Effectiveness*." 2023 – Ongoing (**L. Hanelli**, Project Leader)

- "Mathematics Education in Engineering," Tempus European Project, Contract No. JEP-16119, Tirana-Vlora-Athens-Trieste, 2002-2003-2004. Overall Budget: 221,915 EUR **L. Hanelli (Coordinator)**, Sofia Lambropoulou (Contractor – Greece)**,** Alfredo Bellen (Local Coordinator – Italy),

- Project Title: "*Numerical Solutions for Some 8th, 10th, and 12th Order Eigenvalue Problems*." Developed at the University of Essen, Germany, 1997. Supported by the DAAD program, Contract No. GR 6197–A9704621, Supported by DAAD Program, Contract No. GR 6197 – A9704621. **(L. Hanelli)**

- Project Title: "*Numerical Solution of Some Special High Order Boundary and Eigenvalue Problems Arising in Thermal Instability*." Conducted at the University of Pittsburgh, USA, 1999-2000, Accompanied by Several References and Publications. Supported by the Fulbright Program of the USA, Contract No. 23949. **(L. Hanelli)**

- Participation and collaboration in the project: "*Concrete Recommendations for Energy Resources through Geological-Geophysical Studies. Redefinition of Oil and Gas Reserves in Accordance with EU Standards, Including Unconventional Oil*" – Contracting Institution: National Agency of Natural Resources, Tirana 2011-2014. **(L. Hanelli)**

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- Participation in Research and Development Project No. 8, part of the National Research and Development Program: "*Reassessment with Contemporary Methods of Discovered Oil and Gas Reserves for Carbonate Fields; Their Status and Possible Extraction*." Engagement: Collaboration for Solving Special Tasks with Mathematical Content, as Specified in the Program and Work Plan of the Project. Supported by the National Committee for Science and Technology, Contracting Institution: Faculty of Geology and Mining, Tirana, November 2003 - December 2005. **(L. Hanelli)**

- Participation in the project: "*Assessment of Abnormal Layer Pressures and Restoration of Thicknesses in the Ardenicë Divjakë-Kryevidh Structures*." Supported by the National Committee for Science and Technology, Tirana 1996. **(L. Hanelli)**

- Participation in the project: "Quantitative Assessment of Hydrocarbon Potential for External Albanides in a New Contemporary Context," Institute of Oil and Gas, 1990. ING Fund - Fier. **(L. Hanelli)**

- Participation in the project: "Assessment of Reserves in Hekal-Karbunara," Institute of Oil and Gas, 1981, ING Fund – Fier. **(L. Hanelli)**

- "Directions for the Use of Mathematical Methods in Geology," 20 pages, Institute of Oil and Gas, 1980. ING Fund – Fier. **(L. Hanelli**, Project Leader)

- Participation in the project: "Collector Properties of Oil and Gas in Albanian Rocks," Institute of Oil and Gas, 1980. **(L. Hanelli)**

- ERASMUS-STAFF TRAINING–University of Poitiers, France. 2023 **(L. Prifti, E. Raço)**

- ERASMUS-STAFF TRAINING–University of Poitiers, France. 2024 **(E. Raço)**

- ERASMUS-TEACHING-ISCTE, Lisboa, Portugal. 2023: Teach Probability and Statistics in Bachelor in Mathematics Applied to Digital **(L. Prifti)**

- ERASMUS-STAFF- University of Technology of Compiègne, France. 2022 **(L. Prifti)**

- ERASMUS-TEACHING-Technical University of Cartagena, Spain, 2024 **(E. Raço)**

- ERASMUS-TEACHING-University Institute of Lisbon, Portugal, 2023 **(E. Raço)**

- ERASMUS-STAFF TRAINING-Polytechnic University of Viseu, Portugal, 2022 **(E. Raço)**

- ERASMUS-STAFF TRAINING-AGH University, Poland, 2022 **(E. Raço)**

- ERASMUS-STAFF TRAINING-AGH University, Poland, 2019 **(E. Raço)**

- "*Construction of a Mathematical Model for Evaluating Compliance in Albanian Texts*." Part of the reorganization of the doctoral study program in Mathematical Engineering, in the research field of "Statistical Methods and Operations Research" in Mathematical Engineering, approved by the Academic Senate of PUT with Decision No. 5 dated September 29, 2020, approved by the Ministry of Education and Sports, 2024. **(L. Prifti, D. Salillari)**

- "*Mathematical Modeling of Phonemes in Albanian Texts and Applications in Computer Systems*." Developed within the framework of the projects "For Fundamental Research and Excellence" in Public Higher Education Institutions, as part of the National Program for Research and Development (NPRD) in Information Systems and Technologies, 2010-2012 "DMI, FMEPE, PUT September 2011 - September 2012. **(L. Prifti)**

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- "*Spatial Data Analysis Based on Statistical Theory, Case Study: CENSUS 2011, INSTAT*." Developed within the framework of the projects "For Fundamental Research and Excellence" in Public Higher Education Institutions, as part of the National Program for Research and Development (NPRD) in Information Systems and Technologies, 2010-2012 "DME, FMEPE, PUT September 2011 - September 2012. (**L. Prifti, D. Salillari)**

- PROJECT TEMPUS JEP 18062-2003, Politecnico di Bari, 2006**. (L. Prifti)**

- Participation in the Project Tempus program JEP-16119 "Mathematics Education Engineering" Universita degli studi di Trieste, 2003-2004. **(L. Prifti)**

- ERASMUS-STAFF TRAINING-University of Technology of Compiègne, France. July 2022 **(D. Salillari)**

- Participation in the PROJECT TEMPUS program JEP-09363-95 University of Ioannina (Greece), 1995-1998. **(K. Hila)**

- Participation in the PROJECT TEMPUS program JEP-UM16077-2001 University of Siegen, Germany**,** December 2003. **(K. Hila)**

- Participation in the PROJECT TEMPUS program INDIVIDUAL MOBILITY GRANT "IMG-2001-ALB0016")**.** University of Ioannina (Greece), December 2002-January 2003. **(K. Hila)**

- Participation in the PROJECT TEMPUS program INDIVIDUAL MOBILITY GRANT "IMG-2004-ALB2014")**.** University of Ioannina (Greece), April 2005. **(K. Hila)**

- POSTDOCTORAL RESEARCH supported by The State Scholarships Foundation of Hellenic Republic. October 2009-November 2010 **(K. Hila)**

- TEMPUS IMG-ALB 2019-2003, January – February 27, 2004. Individual grant awarded by the Tempus program as part of a collaboration on various educational and scientific issues with faculty from the Department of Mathematics at the University of Ioannina (**A. Naço**)

- TEMPUS S-JEP 09363-95, March-June 1997. Exchange program between the University of Tirana and the University of Ioannina (**A. Naço**)

- Participation in a training and teaching mobility under the Erasmus+ program (G EGALE002) at University of West Attica in Athens (UNIWA), Greece, from December 5 to December 9, 2022**.** Training from December 5 to 7 on the topic "Innovative Management in Higher Education, Applied Practices during the Covid-19 Pandemic, and Remaining Challenges." Teaching on December 8-9, subject: Actuarial Statistics in the Bachelor's program, Year II, "Business Administration." (**K. Haxhi**)

- Participation in a training mobility under the ERASMUS+ PROGRAM (E LA-CORU01) at the University of A Coruña, Spain, May 27 to May 31, 2024. A five-day training with the theme: "*Breaking Barriers in the Internationalization of Higher Education*." (**K. Haxhi**)

- Participation in the PROJECT TEMPUS program INDIVIDUAL MOBILITY GRANT 2004-2005 (**S. Kovaçi**)

- Contribution to the drafting of the project "*Together Towards a Sustainable Future - When Science Comes to Town*," submitted under the "HORIZON-WIDERA-2024-ERA-02" framework. (In the evaluation process), 2024; **(S. Kovaçi)**

- Contribution as an expert in the implementation of the "EU4Inclusion" Project, 2023-2024; **(S. Kovaçi)**

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- Contribution to the Project: "Empowering the Capacities of the FIMIF Library," in collaboration with the Center for European Perspective and the Foreign Ministry of Slovenia, 2012; **(S. Kovaçi)**
- Contribution to the COBBIS Project: "Restructuring the Scientific Library of PUT and its Inclusion in the COBBIS.Net Network," 2012; **(S. Kovaçi)**
- Contribution to the drafting of the Project "Adriatic ROADS," within the framework of the "Galileo" Project, led by Prof. Giorgio Manzoni. Partner: Department of Geodesy, Faculty of Civil Engineering (PUT), 2004; **(S. Kovaçi)**
- Participation in a training and teaching mobility under the ERASMUS+ PROGRAM at Politecnico di Torino, Polito, Italia 27/05/2024 – 31/05/2024 (**A. Daci**)
- Participation in a training and teaching mobility under the ERASMUS+ PROGRAM at Politecnico di Torino, Polito, Italia 27/05/2024 – 31/05/2024 (**S. Tola)**
- "Raport 2010" - studim statistik dhe psikometrik i të dhënave të Maturës Shtetërore 2010, (botim i Agjencise Kombetare të Provimeve) (**Zh. Muka**)
- Punimin me temë: "Vlerësimi dhe hartimi i një testi në lëndën e matematikës" në botimet e Agjencise Kombëtare të provimeve. 2009 (**Zh. Muka**)
- "Raporti publik 2009" - studim statistik dhe psikometrik i të dhënave të Maturës Shtetërore 2009, (botim i Agjencise Kombetare të Provimeve) **(Zh. Muka)**
- *"Project for 'Fundamental Research and Excellence' (under the 2011 budget) in Public Higher Education Institutions, as part of the National Program for Research and Development, titled: 'Measurement of Radon Gas Concentration in the Air of Different Areas of Tirana and Creation of a Thematic Mapping System as an Integral Part for Visualizing the Project Results' September 2011."* **(***Coordinator:* **M. Kuqali,** *Member***: A. Hoxha, D. Mitrushi, Sh. Kuka, T. Myftiu, E. Duka,)**

UDHËHEQJE DISERTACIONESH/ PhD DISSERTATIONS SUPERVISIONS

1. A. Fundo

1. *Scientific Supervisor* of the Doctorate titled "*Measuring the Phenomenon of Overqualification of Graduates: The Case of Albania*." PhD student: Migena Elmazaj, Department of Applied Mathematics, Faculty of Natural Sciences, University of Tirana, 2016.
2. *Scientific Supervisor* of the Doctorate titled "*Modeling Environmental Spatial Data Using Artificial Neural Networks and GIS Technology*." PhD student: Sandër Kovaçi, Department of Mathematical Engineering, Faculty of Mathematical Engineering and Physical Engineering, Polytechnic University of Tirana, 2010.
3. *Scientific Supervisor* of the Doctorate titled "*A New Integral Transform and Its Applications*." PhD student: Artion Kashuri, Department of Mathematics, Faculty of Technical Sciences, University of Vlorë, 2016.

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4. *Scientific Supervisor* of the Doctorate titled "*A Local α-Integral Transform and Its Applications*." PhD student: Matilda Kerku (Gjata), Department of Mathematical Engineering, Faculty of Mathematical Engineering and Physical Engineering, Polytechnic University of Tirana, 2017.

2. Sh. Kuka

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Traffic Modeling Using Statistical Methods and GIS*", PhD student: Rajmonda Dervishi, DME, FMEPE, PUT, 2016.

2. *Scientific Supervisor* of the Doctoral Dissertation: "*On Fuzzy Logic Theory and Its Applications in Building a Mathematical Model in Hydrology*", PhD student: Zhivka Muka, DME, FMEPE, PUT, 2018.

3. *Scientific Supervisor* of the Doctoral Dissertation: "*On Fuzzy Sets and Applications of Fuzzy Logic in Traffic Accident Prediction*", PhD student: Elda Maraj, DME, FMEPE, PUT, 2020.

4. *Scientific Supervisor* of the Doctoral Dissertation: "*Approaches to Special Semigroups and Their Applications*", PhD student: Anila Peposhi, DME, FMEPE, PUT, 2022.

3. L. Hanelli

1. *Scientific Supervisor* of the Doctoral Dissertation: '*Numerical Methods for Solving Certain Boundary and Eigenvalue Problems in Higher-Order Differential Equations*.' PhD Student: Flora Osmani, PUT.
2. *Scientific Supervisor* of the Doctoral Dissertation: '*Comparative Analysis of Methods for Solving Boundary Problems and Contribution to the Numerical Solution of Certain Special Problems of Higher-Order*.' PhD Student: Adrian Naço, PUT.
3. *Scientific Supervisor* of the Doctoral Dissertation: '*Study on Non-Uniform Approximation Techniques with Applications in Interpolatory and Pseudospectral Methods*.' PhD Student: Alvin Asimi, PUT.
4. *Scientific Supervisor* of the Doctoral Dissertation: '*Study on Convergence and Stability in the Initial Value Problem of Ordinary Differential Equations and Delay Differential Equations*.' PhD Student: Elfrida Dishmema, PUT.
5. *Scientific Supervisor* of the Doctoral Dissertation: '*Contribution to the Numerical Solution of Certain Hyperbolic Differential Problems Encountered in the Study of Flexible Structure Vibrations*.' PhD Student: Valmir Bame, PUT.
6. *Scientific Supervisor* of the Doctoral Dissertation: '*A Study on the Fuzzy Regression Model and Artificial Neural Networks (ANN), with Applications in Forecasting Electricity Consumption*.' PhD Student: Jorida Ajçe, PUT.
7. *Scientific Supervisor* of the Doctoral Dissertation: '*Numerical Approximations of Solutions to Certain Parabolic Problems Modeling Fluid Flow in Porous Media*' – in Progress. PhD Student: Armida Brakaj, PUT.

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4. K. Hila

Scientific Supervisor of the Doctoral Dissertation: '*Contribution to the Study of Hyperstructure Theory*'. PhD Student: Krisanthi Naka, Polytechnic University of Tirana, July 2011 - September 2014.

5. L. Prifti

1. *Scientific Supervisor* of the Doctoral Dissertation: 'Classification and Regression via Decision Trees,' PhD Student: Adem Meta, 'Ismail Qemali' University, Vlorë, 2019.
2. *Scientific Supervisor* of the Doctoral Dissertation: 'Construction and Analysis of a Mathematical Model for Optimizing Economic Processes,' PhD Student: Blerta Nazarko (Kristo), Polytechnic University of Tirana, 2018.
3. *Scientific Supervisor* of the Doctoral Dissertation: 'Mathematical Modeling of Categorical Data and Applications,' PhD Student: Erjola Cenaj, Polytechnic University of Tirana, 2017.
4. *Scientific Supervisor* of the Doctoral Dissertation: 'Mathematical Modeling of Phonemes in Albanian Texts and Applications in Computer Systems,' PhD Student: Denisa Salillari, Polytechnic University of Tirana, 2016.

6. S. Kovaçi

Scientific Supervisor of the Doctoral Dissertation: '*Analysis of Covariance with Statistical Algorithms*,' PhD Student: Agron Gjana, PUT, 2022.

TEKSTE- BOOKS

1. **J. Malita**, **A. Fundo "***Analiza Matematike* I**",** SHBLU**,** Tiranë 2003.
2. **J. Malita**, **A. Fundo** "*Analiza Matematike* II", SHBLU**,** Tiranë 2004
3. **J. Malita**, **A. Fundo** "*Analiza Matematike" Vellimi I dhe II*, SHBLU**,** Tiranë 2007
4. **Sh. Kuka, A. Naço**, "*Algjebra Lineare dhe Gjeometri Analitike*"(për fakultetet e Arkitekturës dhe Urbanistikës), UNIVERS, Tetor 2023, Tiranë, ISBN: 978-9928-355-49-2, Albania.
5. **Sh. Kuka, A. Naço**, "*Algjebra Lineare dhe Gjeometri Analitike*", INFBOTUES Tirane, 2016, ISBN: 978-9928-173-42-3, Albania.
6. **Sh. Kuka, A. Naço,** "*Algjebra Lineare dhe Gjeometri Analitike, USHTRIME*", INFBOTUES Tirane, 2016, ISBN: 978-9928-173-43-0, Albania.
7. **L. Hanelli, F. Osmani**, "Njehsimi Numerik me Matlab", për studentët e fakulteteve inxhinierike, Shtëpia Botuese "PEGI", Tiranë 2017, ISBN 978-9928-228-62-8.
8. **L. Hanelli, A. Asimi, S. Tola, M. Pasha, G. Zavalani**. "Analize Numerike me Matlab – Udhëzues, Ushtrime, Detyra Kursi dhe Projekte, Shtëpia Botuese "PEGI", Tiranë 2017, ISBN 978-9928-228-63-5

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9. **L. Hanelli, A. Naço**, Analizë Numerike në Ekuacionet Diferenciale, Shtëpia Botuese "PEGI", Tiranë 2015. ISBN: 978-9928-200-03-7
10. **V. Kabili, A. Haxhimusai, Sh. Leka, M. Qirko, L. Gjoka, L. Hanelli**, S. Makoçi, H. Binjaku, S. Hysko, "Ushtrime në Analizë Matematike per Studentët e Inxhinierisë", Shtëpia Botuese e Librit Universitar, Tiranë 2011, Ribotim 2017. ISBN 978-9928-124-09-8
11. **L. Hanelli, F. Osmani**, Analizë Numerike në Ekuacionet ne Derivate të Pjeshme, Shtëpia Botuese "PEGI", Tiranë 208. ISBN: 978-9928-200-03-7
12. **M. Qirko, L. Nikolla, F. Osmani**, S. Hysko, **L. Hanelli**: "Udhëzues dhe Detyra Kursi në Analizë Numerike", për studentët e fakulteteve inxhinierike, Tiranë 2003, 170 faqe.
13. **L. Hanelli, F. Osmani**, "Njehsimi Numerik me Matlab", për studentët e fakulteteve inxhinierike, Miratuar për botim nga Departamenti i Matematikës dhe Informatikës, dt. 4. 9. 2003, Mbështetur nga Programi Tempus "Edukimi Matematik në Inxhinieri", Tiranë 2004, 350 faqe.
14. **L. Hanelli, F. Osmani**, "Matlab, Teknologji e lartë e llogaritjeve shkencore dhe paraqitjeve grafike", Dispencë plotësuese për lëndën Metoda Numerike, për studentët e Fakultetit Gjeologji-Miniera, Shtepia Botuese PEGI, Tiranë 2001.
15. **L. Hanelli, L. Nikolla**, "Metoda Numerike për Studentët e Inxhinierisë", Shtëpia Botuese e Librit Universitar, Tiranë 1999. ISBN 99927-0-028-9
16. **V. Kabili & … & L. Hanelli** & H. Binjaku: "Ushtrime në Analizë Matematike për Studentët e Inxhinierisë", Shtëpia Botuese e Librit Universitar, Tiranë 1994. ISBN 99927-0-191-9
17. **K. Hila,** J. Dine**,** *Teori e Numrave*, SHBLU, Tirane 2002(2005, 2008, 2013) ISBN 99927-0-199-4 (4 ribotime).
18. P. Karajani**, K. Hila,** *Algjebra Lineare* 1, SH.B.L.U, Tirane, 2000 ISBN 99927-0-332-6 (2 ribotime)
19. P. Karajani**, K. Hila,** *Algjebra Lineare* 2, SH.B.L.U, Tirane, 2001 ISBN 99927-0-390-3 (2 ribotime)
20. P. Karajani, J. Dine**, K. Hila,** *Didaktika e Koncepteve Paramatematikore*, SH.B.L.U, Tirane, 2004 ISBN 99927-0-288-5
21. **E. Raço, E. Llagami, K. Haxhi, O. Zaçaj**, *Teoria e Probabilitetit dhe Statistika Matematike me ilustrime në gjuhën R*, Shtypshkronja KOTTI, Korçë 2017, ISBN: 978-9928-167-70-5 (ribotuar 2021)**.**
22. **E. Raço, E. Llagami, K. Haxhi, O. Zaçaj,** *Teoria e Probabilitetit dhe Statistika Matematike* (Ushtrime), Shtypshkronja KOTTI, Korçë 2017, ISBN: 978-9928-167-76-7 (ribotuar 2021)**,**
23. Ll. Puka, **A. Naço,** Perkthim dhe pershtatje, Matematika 8, Mediaprint, 2017, Tirane, ISBN 976–9928–295–4
24. Ll. Puka, **A. Naço,** F. Gjoni, Perkthim dhe pershtatje, Matematika 10 – 11, Pjesa e pare, Mediaprint, 2016, Tirane, ISBN 978–9928–08-252–7

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25. Ll. Puka, **A. Naço,** F. Gjoni, Perkthim dhe pershtatje, Matematika 10 – 11, Pjesa e dyte, Mediaprint, 2016, Tirane, ISBN 978–9928–08-253–4
26. Ll. Puka, **A. Naço,** Perkthim dhe pershtatje, Matematika 12, Mediaprint, 2018, Tirane, ISBN 978–9928–08-344–9
27. Ll. Puka, **A. Naço,** Perkthim dhe pershtatje, Matematika me zgjedhje 12, Mediaprint, 2018, Tirane, ISBN 978–9928–08-345–6
28. **A. Tato, A. Çaushi**, *Elemente të Analizës Funksionale*, *Tiranë* 2022, ISBN: 978-9928-4435-5-7 .
29. **A. Kashuri**, R. Liko "Ekuacionet Diferenciale të Zakonshme", (Janar 2015), Shtëpia Botuese EUROPRINT, ISBN-978 – 99956 – 95 – 43 – 9.
30. **K. Filipi, A. Gjana**, Algjebra dhe Gjeometria. Teori dhe Ushtrime te Zgjidhura, Shtepia botuese "Shpresa Print", 2023, ISBN: 9789928810076.
31. **L. Gjoka, A. Daci,** Analiza C (Ekuacione Diferenciale, Sisteme Dinamike), Reklama, Tiranë 2014 (2019), ISBN: 978-9928-07286-3(ISBN: 978 -9928-308-01-6)
32. S.G.A. Sayed Ahmed, H. Jafari, M.Y. Youssif, **R. Datja**, "Numerical Analysis for Science, Engineering and Technology". ©2018, Bentham eBooks imprint. eISBN: 978-1-68108-651-4, 2018; ISBN: 978-1-68108-652-1
33. **R. Dervishi**, M. Dervishi, *Plotësime të matematikës për shkollat e mesme,* 2M, 2021, ISBN: 978-9928-336-52-1
34. M. Dervishi, I. Alikaj, **R. Dervishi**, *Trigonometria***,** Mediaprint, 2011, ISBN: 978-99956-93-87-9
35. H. Binjaku, **R. Dervishi,** M. Naqo**,** *Ushtrime të Matematikës***,** Infobotues, 2009, ISBN: 978-99956-789-1-3
36. **S. Kovaçi**, H. Binjaku, A. Bekolli, Matematikë 1, Ushtrime dhe ushtrime të zgjidhura per studentët e Inxhinieri, Informatikë, Arkitekturë, UET Press, 2020, ISBN 978-9928-320-17;
37. H. Binjaku, **S. Kovaçi**, Matematikë 2, Ushtrime dhe ushtrime të zgjidhura per studentët e Inxhinieri, Informatikë, Arkitekturë, UET Press, 2020, ISBN 9789928320032;
38. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 7 : për klasën e shtatë të shkollës 9-vjeçare, LILO 2012, ISBN 9789928157010;
39. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 6 : për klasën e gjashtë të shkollës 9- vjeçare, LILO 2012, ISBN 978992815700
40. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 9 : për klasën e 9-të të shkollës 9-vjeçare. LILO 2008, ISBN 9789995664435;
41. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 9 : fletore pune : për klasën e 9-të të shkollës 9-vjeçare, LILO 2008, ISBN 9789995664466;
42. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 8 : fletore pune : për klasën e tetë të shkollës 9-vjeçare, LILO, 2007, ISBN 9789994389988;
43. A. Polovina, **L. Gjoka, S. Kovaçi**, Matematika 8 : për klasën e tetë të shkollës 9-vjeçare, LILO, 2007, ISBN 9789994389957.

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44.

PJESËMARRJE NË ORGANIZMA SHKENCORE ETJ. / PARTICIPATION IN SCIENTIFIC ORGANISATIONS ETC.

- All members of the academic staff of the Department are members of the Albanian Mathematical Association (AMA).
- **K. Hila, E. Raço**- Members of the Steering Committee of the Albanian Mathematical Association.
- **A. Naço,** Head of the Albanian Mathematical Association.
- **A. Kashuri,** Member of American Mathematical Society
- **K. Hila, E. Raço,** Experts of the external evaluation groups for ASCAL (Quality Assurance Agency in Higher Education).
- **E. Xhafaj**-Member of the Association of Simulation in Albania, ALBSIM as part of the network of the Federation of European Simulation Associations, EUROSIM
- **K**. **Haxhi**- Chair of the Albanian Society of Actuaries
- **O. Zaçaj-** Member of the Albanian Society of Actuaries.

  Chair of the Actuaries Committee (until the end of 2010).
- European Girls' Mathematical Olympiad (EGMO), Georgia, April 2024. Leader of the Albanian Representative Team & Member of the EGMO 2024 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Japan, July 2023. Leader of the Albanian Representative Team & Member of the IMO 2023 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Albania, June 2023. Chair of the Organizing Committee & Member of the JBMO 2023 Coordinating Team **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Turkey, May 2023. Leader of the Albanian Representative Team & Member of the BMO 2023 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Slovenia, April 2023. Leader of the Albanian Representative Team & Member of the EGMO 2023 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Norway, July 2022. Leader of the Albanian Representative Team & Member of the IMO 2022 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Bosnia and Herzegovina, June-July 2022. Observer of the Albanian Representative Team JBMO 2022 **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Cyprus, May 2022. Leader of the Albanian Representative Team & Member of the BMO 2022 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Hungary, April 2022. Leader of the Albanian Representative Team & Member of the EGMO 2022 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Russia, September 2021. Leader of the Albanian Representative Team & Member of the IMO 2021 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Moldova, June 2021. Observer of the Albanian Representative Team JBMO 2021 **(A. Naço).**

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- Balkan Mathematical Olympiad (BMO), Cyprus, September 2021. Leader of the Albanian Representative Team & Member of the BMO 2021 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Georgia, April 2021. Leader of the Albanian Representative Team & Member of the EGMO 2021 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Russia, September 2020. Leader of the Albanian Representative Team & Member of the IMO 2020 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Greece, September 2020. Observer of the Albanian Representative Team (**A. Naço).**
- Balkan Mathematical Olympiad (BMO), Romania, October-November 2020. Leader of the Albanian Representative Team & Member of the BMO 2020 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Netherlands, April 2020. Leader of the Albanian Representative Team & Member of the EGMO 2020 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), England, July 2019. Leader of the Albanian Representative Team & Member of the IMO 2019 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Cyprus, June 2019. Observer of the Albanian Representative Team JBMO 2019 **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Moldova, April-May 2019. Leader of the Albanian Representative Team & Member of the BMO 2019 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Ukraine, April 2019. Leader of the Albanian Representative Team & Member of the EGMO 2019 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Romania, July 2018. Leader of the Albanian Representative Team & Member of the IMO 2018 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Greece, June 2018. Observer of the Albanian Representative Team JBMO 2018 **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Serbia, May 2018. Leader of the Albanian Representative Team & Member of the BMO 2018 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Italy, April 2018. Leader of the Albanian Representative Team & Member of the EGMO 2018 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Brazil, July 2017. Leader of the Albanian Representative Team & Member of the IMO 2017 Jury **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), FYROM, June 2017. Leader of the Albanian Representative Team & Member of the BMO 2017 Jury **(A. Naço).**
- European Girls' Mathematical Olympiad (EGMO), Switzerland, April 2017. Leader of the Albanian Representative Team & Member of the EGMO 2017 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Hong Kong, July 2016. Leader of the Albanian Representative Team & Member of the IMO 2016 Jury **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Albania, May 2016. Leader of the Albanian Representative Team & Member of the BMO 2016 Jury **(A. Naço).**
- International Mathematical Olympiad (IMO), Thailand, July 2015. Leader of the Albanian Representative Team & Member of the IMO 2015 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Serbia, June 2015. Deputy Leader of the Albanian Representative Team JBMO 2015 **(A. Naço).**

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- Balkan Mathematical Olympiad (BMO), Greece, May 2015. Deputy Leader of the Albanian Representative Team BMO 2015 **(A. Naço).**
- International Mathematical Olympiad (IMO), South Africa, July 2014. Leader of the Albanian Representative Team & Member of the IMO 2014 Jury **(A. Naço).**
- Balkan Mathematical Olympiad for Young People (JBMO), Macedonia, June 2014. Deputy Leader of the Albanian Representative Team JBMO 2014 **(A. Naço).**
- Balkan Mathematical Olympiad (BMO), Bulgaria, May 2014. Deputy Leader of the Albanian Representative Team BMO 2014 **(A. Naço).**

PJESËMARRJE NË KOMITETE SHKENCORE TË KONFERENCAVE ETJ. / PARTICIPATION IN SCIENTIFIC COMITTEES OF CONFERENCES ETC.

A. Fundo

Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 6TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2011, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 7TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2012, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 8TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2013, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 9TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2014, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 10TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2015, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 11TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2017, Thessaloniki, Greece.
Member of Scientific Committee of INFORMATION & COMMUNICATIONS TECHNOLOGY OF 12TH SOUTH EAST EUROPEAN DOCTORAL STUDENT CONFERENCE", 2018, Thessaloniki, Greece.
Member of Scientific Committee of POSTGRADUATE RESEARCH CONFERENCE 2019, 13-15 May 2019, Thessaloniki, Greece.
Member of Scientific Committe of INTERNATIONAL CONFERENCE ON APPLIED SCIENCES & ENGINEERING 2017 (ICEAS-2017), 16th and 17th of November 2017, Organizing by FIMIF, PUT, 2017, Tirana, Albania.
Member of Scientific Committe of 3rd INTERNATIONAL FORUM FOR ARCHITECTURE AND URBANISM "MODERNIZATION & GLOBALIZATION": CHALLENGES & OPPORTUNITIES IN ARCHITECTURE, URBANISM & CULTURAL HERITAGE. 21-23 November 2019, Tirana, Albania.
Member of Scientific Committe of 2nd INTERNATIONAL SCIENTIFIC SYMPOSIUM ON "ENGINEERING APPLICATIONS SOLVING ENVIRONMENT CHALLENGES", 12-13 December 2019, Tirana, Albania.

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Member of Scientific Committe of 2ND INTERNATIONAL CONFERENCE: "IDEAS, EXPERIENCES AND DIDACTIC PRACTICES FOR GROWTH OF THE EFFECTIVENESS OF THE TRANSMISSION OF KNOWLEDGE", November 10-11, 2017, Korcë-Albania.
Member of Local Organizing Committee of 2nd INTERNATIONAL SCIENTIFIC SYMPOSIUM ON "ENGINEERING APPLICATIONS SOLVING ENVIRONMENT CHALLENGES", 12-13 December 2019, Tirana, Albania.
Member of Organizing Committee of 1st INTERNATIONAL CONFERENCE "TOWARDS SUSTAINABLE DEVELOPMENT" – TSD 2017 "SUSTAINABLE DEVELOPMENT IN THE WESTERN BALKANS: APPROACHES, SHORT-COMINGS AND CHALLENGES" Skopje • Macedonia • October 27-28, 2017
Member of Scientific Committe of WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2024), September 6-7, 2024, Tirana, Albania

K. Hila (member of Scientific and Programming Committee)

a. INTERNATIONAL CONFERENCE "MATHEMATICS DAYS IN TIRANA"(MDT2024): "*MATHEMATICS AND ITS TEACHING IN THE DIGITAL AGE*", December 13-14, 2024, Tirana, Albania.
b. WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2024), September 6-7, 2024, Tirana, Albania
c. WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2023), September 7-9, 2023, Pristina-Kosovo
d. 3nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), November 17-18, 2022, Tirana, Albania.
e. 1st INTERNATIONAL SCIENTIFIC CONFERENCE IN MATHEMATICS AND PHYSICS, AND THEIR APPLICATIONS (1ST ISCMPA), November 3-4, 2022, Elbasan, Albania.
f. WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2022), September 1-3, 2022, Pristina-Kosovo
g. WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS, (WBCMA2021), June 10-12, 2021, Pristina-Kosovo.
h. 1ST INTERNATIONAL CONFERENCE: *"Innovation, Mathematics and Information Technology"* ISC-IMIT 2019, November 22-23, 2019, Tirana, Albania
i. 1ST INTERNATIONAL CONFERENCE: *"Research, Application and Educational Methods*", May 24, 2019, Korcë-Albania
j. 2ND INTERNATIONAL CONFERENCE: *"Ideas, experiences and didactic practices for growth of the effectiveness of the transmission of knowledge*", November 10-11, 2017, Korcë-Albania.
k. 1ST INTERNATIONAL WESTERN BALKAN CONFERENCE OF MATHEMATICAL SCIENCES (IWBCMS), May 30- June 1, 2013, Elbasan, Albania.
l. 1ST INTERNATIONAL SCIENTIFIC CONFERENCE: *"European Integration of SEE Countries-Challenges or Reality*", 23-24 September, 2011, Gjirokastra-Albania.

Sh. Kuka

a. **Member of Organizing Committee: "**WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS"(WBCMA2024), 6-7; September 2024, Tirana, Albania

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b. **Scientific Comittee (member):** "FIRST NATIONAL CONFERENCE IN MATHEMATICS (1st NMC-2023)" on September 29-30, 2023, Academy of Sciences of Albania, Tirana.
c. **Scientific Comittee (Member)** : "INTERNATIONAL CONFERENCE OF CIVIL ENGINEERING – ICCE 2023", Tirana, Albania, May 18-20, 2023.
d. **Participant** in the forum "MATHEMATICS IN PRE-UNIVERSITY EDUCATION**,"** organized by the Academy of Sciences, May 2023, Tirana, Albania.
e. **Scientific Comittee (Member)**: INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES(ICEAS-2022), Organizing by FIMIF, PUT, 2022, Tirana, Albania **.**
f. **Head of Organizing Committee:** INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES(ICEAS-2022)**,** Organizing by FIMIF, PUT, 2022, Tirana, Albania.
g. **Scientific Comittee (Member)**: INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES(ICEAS-2017), 16-17 November 2017**,** Organizing by FIMIF, PUT, 2017, Tirana, Albania **.**
h. **Head of Organizing Committee:** INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES(ICEAS-2017), 16-17 November 2017**,** Organizing by FIMIF, PUT, 2017, Tirana, Albania.
i. **Scientific Comittee (Member):** FIRST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES "NEW TEHNOLOGIES AND APPLICATIONS IN MEDICINE" NTAM 2014, 7-8 November 2014, Organizing by FIMIF, Polytechnic University of Tirana & AAMP Tirane, Albania .

A. Naço

a. Scientific Committee & Organizing Comittee (Member): "WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS", WBCMA, 6-7; September 2024, Tirana, Albania
b. Scientific Committee (Member), MASSEE INTERNATIONAL CONFERENCE ON MATHEMATICS MICOM 2018, 18-23 September 2018, Nicosia, Cyprus
c. Program Committee (Member), CODEMA, IX SEMINAR OF DIFFERENTIAL EQUATIONS AND ANALYSIS, 1ST CONGRESS OF DIFFERENTIAL EQUATIONS, MATHEMATICAL ANALYSIS AND APPLICATIONS, Northern Macedonia, October 30 – November 01, 2020
d. Management Board (Member), CODEMA, North Macedonia, 2020 (Member), MASSEE 2017 – 2019, 2019 – 2021, 2021 – 2023, 2023 – 2025
e. Executive Committee (Member), MASSEE 2017 – 2019, 2019 – 2021, 2021 – 2023, 2023 – 2025
f. MASSEE Council (Member), MASSEE 2019 – 2025
g. Acaemy of Sciences of Albania (Member), MASSEE 2019, Member of Commisiion of Mathematics.

A. Kashuri

a. Member of Organizing Committee

1. Member of Organizing Committee: "WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS" (WBCMA 2024), Tiranë, Albania.
2. Member of Organizing Committee: "2nd NATIONAL MATHEMATICS CONFERENCE: FUNCTIONAL ANALYSIS AND THEORY OF FUNCTIONS", 21-22 October 2024, Academy of Sciences of Albania, Tiranë, Albania.

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3. Member of Organizing Committee "FOURTH INTERNATIONAL CONFERENCE ON NEW RESEARCH AND ADVANCES ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY" (NRA-CSIT 2023), Vlorë, Albania.
4. Member of Organizing Committee "THIRD INTERNATIONAL CONFERENCE ON NEW RESEARCH AND ADVANCES ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY" (NRA-CSIT 2021), Vlorë, Albania.
5. Member of Organizing Committee "SECOND INTERNATIONAL CONFERENCE ON NEW RESEARCH AND ADVANCES ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY" (NRA-CSIT 2019), Vlorë, Albania.

b. Member of Scientific Committee

1. Member of Scientific Committee "2nd NATIONAL MATHEMATICS CONFERENCE: FUNCTIONAL ANALYSIS AND THEORY OF FUNCTIONS", 21-22 October 2024, Academy of Sciences, Tiranë, Albania.
2. Member of Scientific Committee "FIRST WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS" (FWBCMA 2021), Prishtinë, Kosovo.

A. Basholli

a. **Member of the Organizing Committee** "WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS," September 6–7, 2024, in Tirana, Albania.
b. **Member of the organizing Committee** "INTERNATIONAL CONFERENCE ON APPLIED STATISTICS AND ECONOMETRICS," Tirana, Albania, in 2017.

E. Xhafaj

a. **Member of the Scientific Committee** at FIRST INTERNATIONAL CONFERENCE ON NATURAL SCIENCES, MATHEMATICS AND TECHNOLOGY, 26 May 2023, Durres, Albania.
b. **Moderator** of the FIRST INTERNATIONAL CONFERENCE ON NATURAL SCIENCES, MATHEMATICS AND TECHNOLOGY, 26 May 2023, Durres, Albania
c. **Member** of the Association of Simulation in Albania, ALBSIM as part of the network of the Federation of European Simulation Associations, EUROSIM,

A. Daci

a. **Member of Scientific Committee** "TECHNOLOGY & BUSINESS UPDATE", 21 November, 2024, Tirana Business University College
b. **Member of Scientific Committee** "WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS (WBCMA 2024)", Tirana, Albania
c. **Member of Scientific Committee** "UKZ ANNUAL CONFERENCE 2024"
d. **Conference organizer** of "WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS (WBCMA 2024)", Tirana, Albania

S. Kovaçi

a. **Member of the Scientific Committee** *WBCMA2024,* Tirana, September 6–7, 2024.
b. **Member of the Organizing Committee and Keynote Speaker** at the INTERNATIONAL CONGRESS ON EDUCATION, SCIENCES AND LEARNING TECHNOLOGY, November 6–10, 2019, in Sarajevo, Bosnia and Herzegovina.
c. **Member of the Scientific and Organizing Committees** for *ICEAS 2017,* Tirana on November 16–17, 2017.

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d. Member of the Scientific and Organizing Committees for *ICEAS 2022,* November 17–18, 2022. Tirana, Albania

L. Prifti

a. **Member of the Organizing Committee** "WESTERN BALKAN CONFERENCE IN MATHEMATICS AND APPLICATIONS" WBCMA September 6-7, 2024, Tirana-Albania.
b. **Member of the Scientific Committee**, 3rd INTERNATIONAL CONFERENCE SHAPING THE FUTURE: MULTIDISCIPLINARY APPROACHES TO DIGITALIZATION AND ECONOMIC GROWTH. June 15-16, 2023.
c. **Member of the Scientific Committee and Organizing Committee**, FIRST NATIONAL CONFERENCE OF MATHEMATICS, Tirana, Albania 2023.
d. **Chair of the Session** 7 in FIRST NATIONAL CONFERENCE OF MATHEMATICS, Tirana, Albania 2023.
e. **Member of the Scientific Committee** of 3d INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), Tirana, Albania.
f. **Chair of the Plenary Session** 3d INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), Tirana, Albania
g. **Member of the Organizing Committee** of 3d INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), Tirana, Albania.
h. **Member of the Scientific Committee** of 2nd INTERNATIONAL CONFERENCE ON "APPLIED SCIENCES AND ENGINEERING" 2017 (ICEAS 2017), Tirana, Albania. Co-Chaired of the Mathematical Analysis and Statistics section.
i. **Member of the Program Committee** of INTERNATIONAL CONFERENCE SPNA-2014, SPNA-2015.
j. **Member of the Scientific Committee** of INTERNATIONAL CONFERENCE NTAM-2014, Tirana, Albania
k. **Member of the Scientific Committees** of the NATIONAL CONFERENCE "ADVANCED STUDIES IN MATHEMATICAL, PHYSIS AND CHEMICAL ENGINEERING" Tirana 28 October 2011.
l. **Co-Chaired** of the Mathematical Engineering section the NATIONAL CONFERENCE "ADVANCED STUDIES IN MATHEMATICAL, PHYSICAL AND CHEMICAL ENGINEERING" Tirana 28 October 2011, Tirana, Albania.
m. **Member of the Organizing Committee** of the NATIONAL CONFERENCE "ADVANCED STUDIES IN MATHEMATICAL, PHYSICAL AND CHEMICAL ENGINEERING" Tirana 28 October 2011, Tirana, Albania.

D. Salillari

Member of the organizing Committee "WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS,", September 6–7, 2024, in Tirana, Albania.

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DEPARTAMENT OF PHYSICAL ENGINEERING

The Department of Physical Engineering currently consists of 17 academic staff members:

Prof. Dr. Partizan Malkaj
Assoc. Prof. Adhurim Hoxha
Assoc. Prof. Altin Gjevori
Assoc. Prof. Dafina Xhako
Assoc. Prof. Dhurata Kuqi
Assoc. Prof. Driada Mitrushi
Assoc. Prof. Joan Jani
Assoc. Prof. Margarita Kuqali
Assoc. Prof. Valbona Lame
Assoc. Prof. Urim Buzra
Dr. Enkelejd Çaça
Dr. Denis Askushaj
Dr. Irma Bërdufi
Dr. Matilda Mema
Dr. Moisi Xhoxhi
Dr. Nertila Ogreni
M.Sc. Artan Llozana

Departmenti i Inxhinierisë Fizike (DIF), si njësi bazë e Fakultetit të Inxhinierisë Matematike dhe Inxhinierisë Fizike (FIMIF), UPT, synon të kontribuojë në zgjerimin e fushave të ekspertizës së UPT-së. Departamenti synon përsosjen, konsolidimin e formimit akademik dhe zgjidhjen e problemeve të rëndësishme kërkimore dhe shkencore në shkallë vendi dhe rajoni në fushat e tij specifike të kërkimit.

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Misioni i Departamentit te Inxhinierisë Fizike është:

1. Të transmetojë, të zhvillojë e të konsolidojë dijet me anën e mësimdhënies, kërkimit shkencor dhe shërbimeve si edhe të formojë specialistë të lartë në fushën e Fizikës së Aplikuar, të aftë për t'u integruar në tregun të punës (të brendshëm e të jashtëm);
2. Të krijojë një ambient të përshtatshëm për lirinë e mendimit dhe të kërkimit shkencor.

DIF fokusohet në aplikimin e parimeve fizike në inxhinieri dhe teknologji. Ai synon ruajtjen dhe konsolidimin e vlerave akademike e kulturore kombëtare. Veprimtaria e tij është ndërtuar në mënyrë të tillë që të përgatisë individë të kualifikuar, të cilët duke kontribuar në fushën e mësimdhënies apo në fusha të tjera, ndikojnë në zhvillimin ekonomik të mbarë shoqërisë. Departamenti i përmbahet një strategjie të mirëpërcaktuar të mësimdhënies dhe kërkimit shkencor. Kjo gjë realizohet duke vënë në dispozicion të gjitha burimet njerëzore të departamentit. Stafi akademik, në përputhje me fushat e tij të kërkimit shkencor, zhvillon një veprimtari të suksesshme në përputhje me drejtimet e zhvillimit të vetë institucionit. Profilet kërkimore kryesore të DIF në të cilat është orientuar puna e thelluar kërkimore dhe ofrimi i studimeve të ciklit të tretë janë: Shkenca e Materialeve, Energjia dhe Mjedisi, dhe Optikë e Zbatuar.

Ky departament mbulon gjithë disiplinat e fizikës që zhvillohen në të tre ciklet në të gjitha programet e studimit të Universitetit Politeknik të Tiranës

The Department of Physical Engineering (DPE), as a fundamental unit of the Faculty of Mathematical Engineering and Physical Engineering (FMEPE) at PUT, aims to contribute to the expansion of PUT's areas of expertise. The department seeks to enhance and consolidate academic development while addressing significant research and scientific challenges at the national and regional levels within its specific research fields.

Mission of the Department of Physical Engineering:

1. To disseminate, develop, and consolidate knowledge through teaching, scientific research, and services, as well as to train high-level specialists in the field of Applied Physics who are capable of integrating into the job market (both domestically and internationally).
2. To create a conducive environment for freedom of thought and scientific research.

DPE focuses on the application of physical principles in engineering and technology. It aims to preserve and strengthen national academic and cultural values. Its activities are structured to prepare qualified individuals who, by contributing to teaching or other fields, play a role in the overall economic development of society. The department adheres to a well-defined strategy for teaching and scientific research,

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achieved by leveraging the human resources of the department. The academic staff, in alignment with their scientific research fields, successfully engage in activities consistent with the institution's developmental objectives.

The primary research profiles of DPE, which guide its in-depth research and the provision of third-cycle studies, include: Materials Science, Energy and Environment, Applied Optics.

This department covers all physics disciplines taught across all three study cycles in the programs offered by the Polytechnic University of Tirana.

ARTIKUJ SHKENCORE TË BOTUAR/PUBLISHED PAPERS IN PEER-REVIEW JOURNALS

2025

203. Spahiu E., **Xhako D.,** Hyka N., Hoxhaj S. *3D Magnetic Resonance Image Segmentation Using HD Brain Extraction in 3D Slicer*. JOURNAL OF TRANSACTIONS IN SYSTEMS ENGINEERING, Vol. 3 No.1 (2025)., 340–348.

202. **Dafina Xhako**, Elda Spahiu, Niko Hyka, Suela Hoxhaj, *Integration of AI Functions for Automatic Identification of Morphological Parameters in Medical Images Using MATLAB* , JOURNAL OF INFORMATION SYSTEMS ENGINEERING AND MANAGEMENT, Vol. 10 No. 8 (2025), 535 - 544

201. **Xhako D**., Hoxhaj S., Hyka N., Spahiu E.. *Integrating AI applications into university STEM study programs using Python*. INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH AND SCIENTIFIC STUDIES, Vol. 8 (2025), No. 1, 2374–2384.

200. I. Kola, B. Kolgjini, L. Malka, A.B. Owolabi, A.O. Yakub, A.O. Oyedun, **P. Malkaj**, *Pathways toward zero-emission textile industry by 2050: A case study of Albania*, ENERGY REPORTS Vol. 13 (2025), No. 6, 4034-4053.

199. J. Shano, E. Bylyku, **P. Malkaj**, B. Daci, *Evaluating natural radiation levels and mapping their distribution across Albania*, INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE Vol. 15 (2025), No. 1, 239-244.

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198. I. Selmani, B. Papajani, **P. Malkaj**, *The dependence of the radiation dose on the angle and the field size for radiation beam with energy* 6 MV, INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE Vol. 15 (2025), No. 1, 157-160.

197. I. Bërdufi, F. Cfarku, E. Musta, D. Mitrushi. "*Estimation of budget uncertainty in a personal dosimetry laboratory*". WSEAS TRANSACTIONS ON SYSTEMS, Volume 24 (2025), 120 – 128.

196. **D. Xhako**, N. Hyka, E. Spahiu, S. Hoxhaj. *Medical image analysis using deep learning algorithms* (DLA)[J]. AIMS BIOPHYSICS, 2025, 12(2): 121-143.

195. S. Hoxhaj, **D. Xhako**, N. Hyka, E. Spahiu, *COVID-19: A Comprehensive Assessment of the Pandemic's Impact in Albania*. INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND INTERDISCIPLINARY SCIENCES, Vol. 8 (2025), No. 1, 236–257.

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PROJEKTE, TEMA STUDIMORE & AKTIVITETE TË TJERA KËRKIMORE-SHKENCORE/ RESEARCH-SCIENTIFIC PROJECTS, STUDY THESIS & OTHER ACTIVITIES

- **"***Application of European geospatial standards in the monitoring of radio frequency electromagnetic fields***",** ERASMUS-JMO-2024-HEI-TCH-RSCH AEGS, (*Coordinator*: **Dh. Kuqi**, *member*: **V. Lame-Muda**, Polytechnic University- 2024).
- "*Complementarity of Renewable Energy Sources, Solar and Wind, in Albania; Statistical Modeling, Metrics, and Their Applications*." FIMIF, PUT, Tirana – 2023-2026 (*Coordinator*: **V. Lame-Muda, D. Mitrushi (member), U. Buzra (member)**).
- "*The study of Microplastic pollution in the Adriatic sea-coast with Spectroscopical Methods*". In collaboration with University of Tirana and Institute of Applied Nuclear Physics, Tirana,

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- **"***Capacity Building project "Developing Research and Innovation Capacities in Albania and Kosovo/ DRIVE" Project Number: 610307-EPP-1-2019-1-AL-EPPKA2-CBHE-JP*, In the framework of Erasmus+. Politecnico di Milano, Italy. Aalborg University, Denmark, Hamburg University of Technology (Participating: **V. Lame-Muda**).
- "*Study of Regional Potentials of Solar and Wind Energy, Sensitivity of Their Utilization Efficiency, and Physical and Technological Parameters Using Multifactorial Analysis Methods*" *National Program for Research and Development (NPRD), 2011 – 2013*. (*Coordinator:* **P. Berberi, U. Buzra** (member), **V. Lame-Muda** (member)).
- *Integrated Water Resources Management in the Ionian Coast*. 2010-2012 National Program for Research and Development (PKKZH). (*Coordinator:* **P. Berberi, U. Buzra** (member)).
- **"***Project on Si-based solar cells*", **V. Muda**, Mads Møgelmose Kjeldsen, John Lundsgaard Hansen, Arne Nylandsted Larsen (IFA, University of Aarhus Ny Munkegade, Building 1520DK-8000 Aarhus C, Polytechnic University of Tirana, Albania), Aarhus, October-December 2007.
- **"***Study of the National cross-border coastal areas in Albania", in collaboration with University of Molisse, Italy. 2006-2007***, (***Member:* **V. Lame-Muda)**
- (Greek-Albanian project) '*Study of Prehistoric Period Copper Object from the Greek and Albanian area*' 2003-2005, (*Coordinator* **A. Vevecka**, *Member*: **V. Lame-Muda**).
- *TiNb alloy for biomedical application*; 2015-2017; PUT-Universiteti i Vjenës. (*Coordinator*: **A. Veveçka**, **U. Buzra** (member));
- "*Grain refinement alloys using Equal-Channel Angular-Pressing*", in collaboration with the University of Ancona Italy" 2003-2004, (*Coordinator* **A. Vevecka**, *Member*: **V. Lame-Muda**).
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- "*Modeling of the Integrated Energy and Energy Transport System: The Role of Power-to-Gas and Hydrogen in Long-Term Scenarios for Albania Toward Deep Decarbonization by 2030*"; Funded by AKKSHI, 2023-2024 **(***Project Leader:* **P. Malkaj);**
- "*Use of a Polymeric System in Optimizing Drug Bioavailability. Industrial Development of a Quality and Cost-Effective Drug for the Albanian Population*"*; Funded by AKKSHI; 2023-2024.;* **(***Member:* **P. Malkaj);**
- "*PVA/MMT matrix nanofibers for biomedical applications: Preparation, and characterization of PVA pure electrofiber nanofibers and PVA / MMT matrix to encapsulate an essential oil of Albanian medicinal plant for biomedical applications; NanoAlb; Academy of Science of Albania*; 2022- 2024**; (***Project leader:* **P. Malkaj);**
- *"Development of Simulation and Prediction Models and Integration with the TCIA Database of Medical Images*"*; Funded by AKKSHI; 2022-2023.;* **(***Member:* **D. Xhako; P. Malkaj).**

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- "*Production of zeolite-incorporated nanofibrous membranes for water filter application (ZeiNANOF)*"; NanoAlb; Academy of Science of Albania; 2021-2022**; (***Member:* **P. Malkaj);**
- "*Analysis of Exposure Fields for High Frequencies in the City of Tirana (Target Group: Kindergartens and Schools)*"*; Funded by PUT, 2020-2022***. (***Project Leader:* **P. Malkaj);**
- **"***Nanocoating of cement-based surface with antiviral properties"; NanoAlb; Academy of Science of Albania***;** 2020-2022; NanoAlb; Academy of Science of Albania; 2020-2022; **(***Member:* **P. Malkaj);**
- *"Starch – based bioplastics/chemically modified Graphene oxide composites designed as food packaging film with antibacterial properties***", (***Member:* **P. Malkaj);**
- "*Contemporary Research Equipment for Enhancing the Quality of Scientific Research and Integration with the Recycling Industry*"*; Funded by AKKSHI; 2020-2021***. (***Project Leader***: P. Malkaj,** *Member***: A. Gjevori).**
- Project ALB/6014 "*Enhancing Nationality Safety Infrastructure with an Education and Training Program in Medical Physics and Radiation Protection and Safety*", task with the title " Assess the postgraduate medical physics course at the Polytechnic University of Tirana". 2014-2015**; (***Member:* **P. Malkaj);**
- "'*Assessment of Electromagnetic Pollution in Urban Areas for Frequencies 900 MHz - 1800 MHz,*" *funded by the Ministry of Education and Science, 2011-2013***. (***Project Leader:* **P. Malkaj;** *Member:* **Dh. Kuqi, Sh. Kuka, T. Myftiu, L. Nikolla, T. Mulaj);**
- "*For Equal Opportunities: Establishment of the Biomedical Optics Research Laboratory in the Department of Physical Engineering: 2010-2011, Funded by the World Bank.*". **(***Project Leader:* **P. Malkaj,** *Member***: Dh. Kuqi, E. Gjikondi);**
- "*For Equal Opportunities: Strengthening the Optoelectronics Direction in the Department of Physical Engineering: 2007-2009, Funded by the World Bank.*". **(***Project Leader:* **T. Mulaj,** *Member***: P. Malkaj).**
- "*Establishment of a Research-Scientific Laboratory in the Field of Solid-State Physics, Applying New Information Technologies*"*, 2006-2007. Funded by the Ministry of Education and Science.* **(***Project Leader:* **T. Mulaj,** *Member***: P. Malkaj).**
- *"Karatheodori project research",* University of Patras, Department of Physics, Greece, 2005-2006**. (***Member:* **P. Malkaj);**
- UNESCO – *Hewlett Packard Partnership for Piloting Solutions for Alleviating Brain Drain in South East Europe***,** 2004-2005**. (***Drejtuese***: T. Mulaj,** *Anetar***: P. Malkaj).**
- "*Use of Optoelectronic Techniques in Determining Environmental Pollution from Various Non-Ionizing Radiations*"*: Department of Physics, University of Gjirokastra; in Collaboration with the Department of Physics, University of Lecce, Italy. Funded by the Ministry of Education and Science, Albania, and the Ministry of Education and Science, Italy, 2002-2003***. (***Member***: P. Malkaj).**
- *Holding a license* from the National Radiation Protection Commission (KMR) for expertise in the field of non-ionizing radiation. Expert for several years (four years) in a private mobile telephony company in Albania. Judicial expert in this field in Albania and Kosovo. (**P. Malkaj**).

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- *Expert* in the evaluation of plastic materials and beyond, focusing on their mechanical properties through thermal treatment. This includes utilizing the DSC (Differential Scanning Calorimeter) device, recently upgraded with essential equipment for sample preparation and characterization through a project funded by the Academy of Sciences of Albania. Third-party services in this field include applications in industries such as recycling, textiles, solar panels, pharmaceuticals, and more. (**P. Malkaj**).
- "*Project for 'Fundamental Research and Excellence' (under the 2011 budget) in Public Higher Education Institutions, as part of the National Program for Research and Development, titled: 'Measurement of Radon Gas Concentration in the Air of Different Areas of Tirana and Creation of a Thematic Mapping System as an Integral Part for Visualizing the Project Results' September 2011*." **(***Coordinator:* **M. Kuqali,** *Member***: A. Hoxha, D. Mitrushi, Sh. Kuka, T. Myftiu, E. Duka).**
- *UNESCO-HEWLETT PACKARD Partnership and CERN, Grid: The Key to Scientific Collaboration – CERN, Geneva, Switzerland 28-29 September 2005***. (***Member***: M. Kuqali, T. Mulaj)**
- *UNESCO-HEWLETT PACKARD Partnership, CERN, 2nd Project Review Meeting, Ohrid, FYR of Macedonia, 12-14 April 2005, kam referuar "The continuity of STEP"***. (***Member***: M. Kuqali, T. Mulaj)**
- *UNESCO-HEWLETT PACKARD Partnership, CERN, New Launch Events of the Project at the Polytechnic University of Tirana, Albania 12 April 2005***. (***Member***: M. Kuqali, T. Mulaj)**
- *UNESCO-HEWLETT PACKARD Partnership, CERN, Piloting Solutions for Alleviating Brain-Drain in South East Europe.* **(***Member***: M. Kuqali, T. Mulaj)**
- *Expert* in the measurement, monitoring, and evaluation of electromagnetic fields of non-ionizing radiation. (**M. Kuqali, Dh. Sadiraj Kuqi**).
- The project*: "Innovative STEM teaching practices in Albania towards European Integration"* with reference number 101085776 — ISTA-EU in the framework of the grant: ERASMUS-JMO-2022-MODULE — Jean Monnet Actions in the field of Higher Education: Modules, 2022-2025. (**E. Raço, J. Jani(coordinator), K. Hila**)
- The project*: "Digital education in Albanian universities to provide high-quality life-long learning opportunities: an European approach"* with reference number 101127005 — ISTA-EU in the framework of the grant: ERASMUS-JMO-2023-MODULE — Jean Monnet Actions in the field of Higher Education: Modules. 2023-2026. (**E. Raço(***coordinator***), J. Jani**, **K. Hila**)
- National Project ALB/9/009: "*Enhancing National Capacity for Radiation Monitoring and Emergencies*". Financed by: IAEA, 2016 - 2018. (*Member:* **I. Bërdufi**).
- Regional Project RER/9/140: "*Strengthening Protection of Radiation Workers and Occupational Exposure Monitoring*". Financed by: IAEA, 2016 – 2018. (*Coordinator for Albania***: I. Bërdufi**)
- National Project ALB9011 *"Upgrading the system of dosimetry control for occupationally exposed workers and radon measurements infrastructure for protecting public and capacities according to international standards*". Financed by: IAEA for projects cycle 2020 – 2023. **(***Project Creator and Coordinator* for occupationally exposed workers*:* **I. Bërdufi**).

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- Project Ref: MC 3.01/18 "*Strengthening the Capacity of the Western Balkans for Radiological and Nuclear Emergency Preparedness and Response: Technical Support for Decision Making*" in collaboration with the European Commission and six Western Balkan countries. Funded by: European Commission, Period: 2021 – 2023. (*Coordinator for Albania*: **I. Bërdufi**).
- Research Project titled: '*Developing the Use of X-ray Irradiation Unit as a Safe Alternative for Induced Mutation in Plants for Sustainable Production*.' Collaboration between the University of Tirana (IFBZ + FSHN) and Sandia National Laboratories, USA. Funded by the National Nuclear Security Administration (NNSA), USA, Period: 2021 – 2023." (**I. Bërdufi)**.
- Two-month Fellowship in '*Radiation Protection for Workers, Patients, and the Public*' *within the framework of the national project ALB9011 'Upgrading the System of Dosimetry Control for Occupationally Exposed Workers and the Radon Measurement Infrastructure for Protecting the Public*,' at the Rudjer Boskovic Institute, Zagreb, Croatia, from October 4 – December 3, 2021." **(I. Bërdufi)**
- "POSTDOCTORAL STUDIES: '*Regional Post Graduate Educational Course on Radiation Protection and the Safety of Radiation Sources,*' *within the framework of the RER9142 project 'Establishing Sustainable Education and Training Infrastructures for Building Competence in Radiation Safety*,' organized by the International Atomic Energy Agency (IAEA) and the Greek Atomic Energy Commission (EEAE), Athens, Greece, from October 2018 – March 2019." **(I. Bërdufi**)
- "One-month Fellowship within the framework of the national project ALB9009 '*Enhancing National Capacity for Radiation Monitoring and Emergency Warning,*' *at the Institute for Environmental Protection and Research (ISPRA), Rome, Italy, from September 9 – October 6, 2018*"**. (I. Bërdufi**)
- "*Expert in the field of ionizing radiation protection (May 2020), Certificate of Conformity (Recognition) from the Radiation Protection Commission.*". **(I. Bërdufi**)
- Project: *"Establishment of a Computational Center to Support Collaboration of Albanian HEIs with the European Compact Muon Solenoid (CMS) Project at CERN," September 2024 – September 2025, funded by AKKSHI (National Agency for Scientific Research and Innovation) as a PIKSH project (Research Infrastructure Projects).* **(***Member***: D. Xhako)**
- Project: *"Creation of a Virtual Simulation Laboratory for Diagnostic Imaging at the Faculty of Medical Technical Sciences," September 2024 – September 2025, funded by AKKSHI (National Agency for Scientific Research and Innovation) as a PIKSH project (Research Infrastructure Projects).* **(***Member***: D. Xhako)**
- **I**nternational European project: *"The Albanian Cluster to Join the CMS Experiment as a Cooperating Institution," PUT, UT, CERN Switzerland, 2023–2024***. (*Member*: D. Xhako)**
- International European project: *"Development of Machine Learning Techniques and Neural Network Algorithms in Physics - A Step Toward CERN - CMS Collaboration," 2023–2024, funded by READ (Research Expertise from Academic Diaspora) and AADF (Albanian American Development Foundation).* **(***Member***: D. Xhako)**
- ***Member*** of the committee of the International European project: *"COST Action CA22130, Comprehensive Multiboson Experiment-Theory Action (COMETA)," Large Hadron Collider (LHC), CERN (2023-2027), funded by the European Union***. (D.**

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Xhako)

- Member of the committee of the international European project: *"COST Action - CA20126 Network for Research, Innovation, and Product Development on Porous Semiconductors and Oxides (NETPORE)," Universitat Rovira i Virgili, Avinguda Països Catalans 26, ETSE, Department of Electronic, Electrical, and Automatic Engineering, Tarragona – Spain (2021-2025), funded by the Horizon 2020 Framework Programme of the European Union*. **(D. Xhako)**
- ***Member*** of the committee of the international European project: *"COST Action - CA18125 Advanced Engineering and Research of AeroGels for Environment and Life Sciences," COST Association Avenue du Boulevard – Bolwerklaan 21 1210 Brussels | Belgium (2019-2023), funded by the Horizon 2020 Framework Programme of the European Union.* (**D. Xhako**)
- ***Project Leader***: *"Development of Simulation and Forecasting Models and Integration with the TCIA Database of Medical Images," September 2022 – September 2023, funded by AKKSHI (National Agency for Scientific Research and Innovation) as a PKKZH project (National Research and Development Program Projects).* **(D. Xhako)**
- ***Leader*** of the international project: *"Development of Simulation and Forecasting Models and Integration with the TCIA Database of Medical Images," September 2022 – September 2023, funded by READ (Research Expertise from Academic Diaspora) and AADF (Albanian American Development Foundation).* **(D. Xhako)**
- ***Member*** of the international project: *"HMLQCD - Hadron Masses from LQCD" - Computing project within HP-SEE (High-Performance Computing Infrastructure for Southeast Europe's Research Communities), FP7 Research Infrastructures (2011-2014).* **(D. Xhako)**
- ***Member*** of the project: *"Acceleration of Scientific Calculations in Network Chromodynamics and Complex Systems," funded by FSHN/UT (2013-2015)* **(D. Xhako)**
- ***Member*** of the project: *"Simulation of Chiral Fermions in Multiprocessors - A Project for Scientific Research," funded by FSHN/UT, (2011-2013).* **(D. Xhako)**
- "*Physical Properties of Thermally Zinc-Coated Steel and Its Corrosion Resistance,*" *Duration: 36 months, 2023-2026.* (Albanian Coordinator: **A. Hoxha).**
- Project: "*Science and Technology of Materials / Werkstoffwissenschaft und Werkstofftechnologie," within the framework of "Southeast Europe, Stability Pact - Netzwerk Werkstoffwissenschaften - Albania - Kosovo - Macedonia*," ID: 56269319; funded by DAAD on an annual basis. 2009 – 2016. Project Coordinators: Prof. Dr. Ing. Thomas Bier, Prof. Dr. Ing. Peter Huebner. (*coordinator/member for the Polytechnic University of Tirana / Member of the Cooperation Network Board:* **A. Hoxha**).
- Project: "*Science and Technology of Materials / Werkstoffwissenschaft und Werkstofftechnologie," within the framework of "Southeast Europe, Stability Pact - Netzwerk Werkstoffwissenschaften - Albania - Kosovo - Macedonia*," ID: 56269319; funded by DAAD on an annual basis. 2005 – 2008. General Project Coordinator: Prof. Dr. Dr. h. c. Heinrich Oettel. (*coordinator for the University of Elbasan "A. Xhuvani" / Member of the Cooperation Network Board*: **A. Hoxha**).
- February 2024 – Certificate: *ESMPE European School for Medical Physics Experts – Uncertainty analyses and Statistical methods in Medical Physics* (Prague, Czech

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Republic, credited by EBAMP, supported by ENEN2++). **(**Professional certifications and training**: D. Xhako)**

- January 2024 – Certificate: *Revolutionizing X-ray Meter Technology: Mako – A Meter and a Milestone* (TechNation, eligible for 1 CE credit from ACI). **(**Professional certifications and training**: D. Xhako)**
- January 2023 – Certificate: *ESMPE European School for Medical Physics Experts – Computed Tomography* (Prague, Czech Republic, accredited by EBAMP, supported by ENEN2++). **(**Professional certifications and training**: D. Xhako)**
- June 2021 – Certificate: *3rd European Congress of Medical Physics* (Online, accredited by EBAMP, awarded 32 CPD credit points, Accreditation code APP00156). **(**Professional certifications and training**: D. Xhako)**
- November 2013 – Certificate: *Dosimetry and Treatment Planning for Basic and Advanced Applications* (Training Course on Medical Physics for Radiation Therapy, ICTP, Trieste, Italy). **(**Professional certifications and training**: D. Xhako)**
- June 2013–Certificate: *Monte Carlo methods and data analysis in lattice QCD* (Regensburg, Germany, 24-27 June 2013). **(**Professional certifications and training**: D. Xhako)**
- May 2012–Certificate: *Sarajevo School of High Energy Physics 2012* (Sarajevo). **(**Professional certifications and training**: D. Xhako)**
- March 2012 – Certificate: *Curso teorico-practico de tecnicas avanzadas en Radiokirurgia* (Grupo IMO, Madrid, Spain). (Professional certifications and training: D. Xhako)
- September 2011 – Certificate: *Helmholtz International Summer School* (Dubna, Russia). **(**Professional certifications and training**: D. Xhako)**
- June 2011 – Certificate: *Joint HP-SE, LinkSCEEm-2 and PRACE, HPC Summer Training* (Athens, Greece). **(**Professional certifications and training**: D. Xhako)**
- January 2011 – Certificate: *PRACE/LinkSCEEM-2 2011 Winter School* (Nicosia CaStoRc, Cyprus). **(**Professional certifications and training**: D. Xhako)**
- June 2010 – Certificate: *External Quality Assurance: Options for Higher Education Managers* (UNESCOIIEP, Paris). **(**Professional certifications and training**: D. Xhako)**
- May 2008 – Certificate: *Completed successfully the English Language Course, Upper-Intermediate Level* (Vision Center, Tirana, Albania). **(**Professional certifications and training**: D. Xhako)**
- December 2006 – Certificate: *Completed successfully the Professional Computer Basics Course* (Vision Center, Tirana, Albania**). (**Professional certifications and training**: D. Xhako)**
- *Medical Equipment Installation and Services**: Installation, commissioning, and servicing of medical equipment, image processing, and evaluation of medical devices using dedicated equipment**. (**Expertise and services provided to third parties**: D. Xhako)**
- *Software Development and Statistical Processing in Higher Education: Use and development of dedicated software for statistical processing in higher education, quality assurance, accreditation, rankings, and analysis from student surveys, as well as market research.* **(***Expertise and services provided to third parties***: D. Xhako)**
- *Medical Diagnostic Imaging Virtual Laboratory Services: The Medical Diagnostic Imaging Virtual Laboratory at the Faculty of Medical Technical Sciences offers expertise*

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and services in two main areas: virtual simulation of key diagnostic techniques and enhancing the professional skills of imaging technicians for radiation protection in the workplace. The development of SC (Standardization and Calibration) and QC (Quality Control) mechanisms will be crucial for ensuring rigorous implementation. (Funded by AKKSHI). **(***Expertise and services provided to third parties***: D. Xhako)**

- *Computational Support Center for Collaboration with the CMS Project at CERN: Utilization of the Computational Support Center to assist in scientific work for third parties in fields such as Computational Physics, Data Analysis and Artificial Intelligence, Environmental and Climate Physics, Detector Simulations, Transport Simulations related to environmental radioactivity, Epidemiological Models, Forecasting, and Complex Systems. (Funded by AKKSHI and operated in collaboration with the Faculty of Natural Sciences and DIF).* **(***Expertise and services provided to third parties***: D. Xhako)**
- Training School on Textile**:** Organized by the COST Association, held from July 11-15, 2022, in Prato, Italy**. (***Professional training*: **N. Ogreni)**
- Advanced School on Mechanics of Fibrous Materials and Applications: Physical and Modelling Aspects**:** Organized by CISM (International Centre for Mechanical Sciences), held from July 9-18, 2018, in Udine, Italy**. (***Professional training*: **N. Ogreni)**
- *Trainer in the Continuing Education Course for ENERGY AUDITORS and ENERGY MANAGERS*, at Marin Barleti University - Program developed in collaboration with experts from the Italian Agency for New Technologies, Energy, and Sustainable Economic Development (ENEA) - 2019. (**V. Lame-Muda**)
- *Training in the framework of Erasmus teaching and training programs* in West Attica-Athens, Greece, and Viseu-Portugal. (**V. Lame-Muda**)
- *Research Stays for University Academics and Scientists*, German Academic Exchange Service (Deutscher Akademischer Austauschdienst), 2018 (57378441), Personal ref. no.: 91656534, June 01, 2018-August 31, 2018, IOM-Leipzig, Germany. **(A. Gjevori)**
- *CNR – NATO Fellowship*, Scientific Research Activity, University of Bologna, Italy, February – July 2002. **(A. Gjevori)**
- *Borsa di studio MAE*, Scientific Research Activity, University of Bologna, Italy, February – September 2000. **(A. Gjevori)**
- *Excellence Scholarship from the Ministry of Education and Science* for doctoral studies (Contracts MASH 9581/7 and 1406/5), IOM-Leipzig, Germany, 2007-2010. **(A. Gjevori)**
- *Bilateral project with the Department of Physics, University of Pristina*: "Study of the thermophysical properties of binary mixtures of alcohols with various organic liquids", 2022-2025. **(A. Gjevori)**
- *ERASMUS+* - June 2023, Polytechnic Institute of Viseu, Portugal, one-week staff training mobility. **(A. Gjevori)**
- *ERASMUS+* - May 2022, AGH University of Science and Technology, Krakow, Poland, one-week staff training mobility. **(A. Gjevori)**
- *Contemporary research equipment for improving the quality of scientific research and integration with the recycling industry,* 2021-2022, funded by AKKSHI. **(A. Gjevori)**
- *TEMPUS IMG-ALB2030-2004*, April 19, 2005 – June 14, 2005, University of Palermo, Italy. "*Update the content of the curricula of Didactics of Physics and draft the curricula*

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for the modular subject of the Informatics Technology Laboratory for Didactics of Physics, as a new subject for Albanian Universities, according to the requirements of the Bologna Process". **(A. Gjevori)**

- *PHARE Technical Assistance Programme* in the framework of the PHARE Multi-Country Project in Distance Education, 1996. **(A. Gjevori)**
- *DANIDA project* (Restructuring University System in Albania), 1994-1999. **(A. Gjevori)**
- *TEMPUS IMG N°: 96 - ALB – 1130*, October-November 1996, University of Swansea, Wales, UK. "*Update the content of the curricula of quantum mechanics*." **(A. Gjevori)**
- *Evaluator* of scientific research projects at AKKSHI, in the field of "Energy and Water". (**U. Buzra**).
- *External Evaluation Expert* at ASCAL (**U. Buzra, P. Malkaj, D. Xhako**).
- Project: *Upholding Educational Excellence through Objective Assessments and Licensing. Konsulent ne certifikimin e fondit te pyetjeve per testimin hyres ne Programin e Mjekesise, Shkurt 2024*. (**M. Mema**).

UDHËHEQJE DISERTACIONESH/ PhD DISSERTATIONS SUPERVISIONS

1. D. Xhako

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Development and Integration of Artificial Intelligence Functions for the Automatic Identification of Morphological and Quantitative Parameters in Medical Images.*", PhD student**:** MSc. Elda Spahiu, FMEPE, PUT, 2023 – in progress.

2. *Scientific Supervisor* of the Doctoral Dissertation: "*Assessment of the Impact of Radiological Examinations During the COVID-19 Pandemic on the Increase in Tumor Cases in the Following Years in Albania* ", PhD student**:** MSc. Suela Hoxhaj, FMEPE, PUT, 2023 – in progress.

2. P. Malkaj

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Study of the Dynamic Physical Peak in Linear Accelerators of the Eekta Synergy Platform.*" PhD student**:** Idajet Selmani**;** 2021; FNS/UT;

2. *Scientific Supervisor* of the Doctoral Dissertation: "*Determination of the Physical Characteristics of Seismo-Active Faults in the Territory of Albania through the Study of Moderate Earthquakes.*", PhD student**:** Besian Rama; PUT, 2021;

3. *Scientific Supervisor* of the Doctoral Dissertation: "*Study of the Properties of the Structure, Crystallization, and Thermal Behavior of Several Polymers.*"*";* PhD student**:** Blerina Papajani**;** 2015; DPE/FMEPE/PUT;

4. *Scientific Supervisor* of the Doctoral Dissertation: "*Chaotic Systems and Information Security in Optical Transmissions.*"*";* PhD student**:** Joan Jani**;** 2012**;** DPE/FMEPE/PUT**.**

5. *Scientific Supervisor* of the Doctoral Dissertation: "*Monte Carlo Dosimetry of Ir192 Sources in High Dose Rate Brachytherapy.";* PhD student**:** Lulezime Daci**;** 2012; DPE/FMEPE/PUT**;**

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6. *Scientific Supervisor* of the Doctoral Dissertation: "*Managing Uncertainties in Radiotherapy: From Quality Control to Clinical Strategies and Protocols.*"*;* PhD student**:** Erjona Bakiu**;** 2011**;** DPE/FMEPE/PUT**;**

3. M. Kuqali

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Assessment of the Risk of the Radioactive Gas Radon: Risk Analysis and Protective Measures Against It.*"**,** PhD student**:** Gjon Rrota, PUT, 2022.

2. *Scientific Supervisor* of the Doctoral Dissertation: "*Modeling and Assessment of Environmental Radioactivity Levels in Kosovo and Recommendations for Action Plans.*"**,** PhD student**:** Ylli Kaçiu, PUT, 2023.

4. A. Gjevori

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Study of the Physical Properties of the Quaternary System Methyl Tert-Butyl Ether + n-Hexane + Cyclohexane + Benzene and its Binary and Ternary Subsystems at Temperatures T = (293.15, 298.15, and 303.15) K and Local Atmospheric Pressure*," PhD Student: Artan Llozana, Polytechnic University of Tirana, 2022–ongoing.
2. *Scientific Supervisor* of the Doctoral Dissertation: "*Study of the Thermophysical Properties of Ternary Mixtures Alkanol (C1-C4) + Cyclohexane + Benzene (and Some of Its Derivatives) in the Temperature Range from 20 to 60°C and Local Atmospheric Pressure*," PhD Student: Arbër Zeqiraj, Polytechnic University of Tirana, 2022–ongoing.

5. A. Hoxha

1. *Scientific Supervisor* of the Doctoral Dissertation: "*Research on the Mechanical and Electrical Properties of Polymer-Based Composites*"; PhD Candidate: Aurela Qamili; University: Albanian University, Faculty of Applied and Economic Sciences, Department of Engineering; Year: 2023 – 2024.
2. *Scientific Supervisor* of the Doctoral Dissertation: "*Thermal Behavior of Materials in Building Envelope Elements Under Different Environmental Conditions and Its Impact on the Energy Efficiency of the Building*"; PhD Candidate: Erion Mali; University: "Aleksandër Moisiu" University, Durrës, Faculty of Professional Studies, Department of Engineering and Maritime Sciences; Year: 2023 – 2024, in progress.

6. V. Lame-Muda

1. *Scientific Supervisor* of the Doctoral Dissertation**:** *"Complementarity of Solar and Wind Resources: A Detailed Analysis for the Integration of Renewable Electricity into the Albanian Energy System in the Study Areas*", PhD Candidate**:** Msc. Miranda Halili, Polytechnic University of Tirana, Year: 2023 – 2024, in progress
2. *Scientific Supervisor* of the Doctoral Dissertation**:** *Performance Evaluation of Building-Integrated Photovoltaic Systems and Small Wind Farms for Mountainous Geographic*

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Areas in Albania. PhD Candidate**:** Msc. Fjorela Verore-Veshaj, Polytechnic University of Tirana, Year: 2023 – 2024, in progress

7. Dh. Kuqi

1. *Scientific Supervisor* of the Doctoral Dissertation**:** *"Monitoring and Evaluation of High-Frequency Electromagnetic Fields in Urban Areas of Tirana, Visualization of Results, and Safety in 5G Transmissions*", PhD Candidate**:** Msc. Ejona Zeneli, Polytechnic University of Tirana, Year: 2023 – 2024, in progress
2. *Scientific Supervisor* of the Doctoral Dissertation**:** *"Quality Control in Conventional Radiotherapy Compared to Modern Radiotherapy Techniques*", PhD Candidate**:** Msc. Blerina Myzeqari, Polytechnic University of Tirana, Year: 2023 – 2024, in progress

TEKSTE- BOOKS

E Angjeli, **T. Mulaj**, **V. Muda**, B. Tabaku, **A. Vevecka**, P. Angjeli, N. Panidha, Z. Mulaj, **I. Vullkaj**, L. Aliko, **M. Kuqali**, D. Cano, **P. Berberi**, **E. Gjikondi**. "*KURS I FIZIKËS 1 "Mekanika, Valet, Termodinamika*" për studentët e Inxhinierisë, ASLA 2007, ribotim 2009, 2010, 2015, 2020, 2024

E. Gjikondi, E Topciu, E Angjeli, G Xhixha, B. Tabaku, **T. Mulaj**, Z, Mulaj, **V. Muda, I. Vullkaj, Dh. Kuqi, M. Kuqali**, **P. Malkaj**, **P. Berberi**. "*KURS I FIZIKËS 2 "Elektriciteti, Elektromagnetizmi, Optika*" për studentët e Inxhinierisë, ASLA 2009, ribotim 2010, 2015, 2020, 2024, ISBN 978-99956-817-4-6

A. Gjevori, V. Qano, *"Fizika" për Fakultetet e Mësuesisë*, SHBLU**,** Tiranë 2006, ISBN 99927-0-382-2.

Th. Karaja, **M. Mema**, Fizika Biomjekësore, INFBOTUES, Tiranë 2024, ISBN: 978-9928-821-05-8.

Th. Karaja, **M. Mema**, Fizika Biomjekësore, INFBOTUES, Tiranë 2022, ISBN:978-9928-173-91-1.

M. Spiro, L. Kola, **M. Mema**, Zbatime ne Biofizikën Mjekësore, INFBOTUES, Tiranë 2022, ISBN: 978-9928-17-39-04.

A. Llozana, B. Paloka, F. Kopliku, J. Lica "Edhe nje shkalle drejt dijes"

I. Ninka, **A. Llozana**. "Metodat e mesimdhenies dhe mesinxenies se IT ne shkolle"

D. Xhako, "*EKOSKOPI ULTRASONIK*" Cikël laboratoresh për studentët e Masterit Shkencor, profili Fizikë Mjekësore, DIF/FIMIF/UPT, Tirana 2020.

D. Xhako, Laboratory in Physics: "*Uitston-it Bridge in alternative current circuits*", for engineering students, Tirana 2019**.**

D. Xhako, Laboratory in Physics: "*The conservation law of energy (Maxwell*

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wheel)", for engineering students, Tirana 2018.

N. Hyka, **D. Xhako**, "*Medical Informatics*", INFBOTUES, ISBN 978-9928-173-67-6, Tirana, November 2018.

B. Duka, **D. Xhako**, "*Continuum mechanics for engineering*", INFBOTUES, ISBN 978-9928-173-52-2, Tirana 2017.

Dh. Kuqi. L. Aliko; G. Xhixha "*FIZIKË E PËRGJITHSHME*, Lëkundjet, Valët, Optika" Shblu 2010, ISBN 978-00027-0-542-1,

Dh. Kuqi: Bashkëautore në librin e laboratoreve të fizikës për studentët e inxhinierisë, Tiranë 2007

Dh. Kuqi :Bashkautorë në librin "*Fizika 10"* Pegi Tiranë, 2011, ISBN 978-99956-58-80-9

Dh. Kuqi: Bashkautorë në librin "Ushtrime *Fizika 10"* Pegi, Tiranë, 2011, ISBN 978-99956-58-69-4

Dh. Kuqi : Bashkautorë në librin "*Fizika 11"* (bërthamë) Pegi Tiranë, 2012, ISBN 978-9928-57-9

Dh. Kuqi: Bashkautorë në librin "*Fizika 11" (me zgjedhje)* Pegi Tiranë, 2012.

Dh. Kuqi: Bashkautorë në librin "Ushtrime *Fizika 11"* Pegi, Tiranë, 2012.

M. Kuqali: *Bashkëautore në librin e laboratoreve të fizikës për studentët e inxhinierisë,* Tiranë 2006.

P. Malkaj; *Ushtrime te zgjidhura, Kursi i Fizikes* 2; Shtepia Botuese Pegi; 2015; ISBN:978-9928-175-88-5;

P. Malkaj; *Ushtrime te zgjidhura, Kursi i Fizikes* 1; Shtepia Botuese Pegi; 2011; ISBN:978-9928-124-15-9;

Th. Karaja, J. Dode, **P. Malkaj**; *Fizika Mjekesore*; Shtepia Botuese Pegi; 2011; ISBN:978-99956-58-57-1;

B. Duka; **Dh. Kuqi; P. Malkaj**; I. Kumbuli; *Fizika* 10: Per klasen e 10 te arsimit te mesem te pergjithshem; ISBN: 9789995658809; Shtepia Botuese "Pegi" 2011.

I. Vardhami; **P. Malkaj; A. Naço**: *Ushtrime dhe probleme te zgjidhura per maturen shteterore: Matematike dhe Fzike*; ISBN: 9789994300112; Botimet Dudaj; 2007;

A. Gorana; **P. Malkaj**; "*Kurs teoriko – praktik, Mekanika dhe Termodinamika*, vëllimi I", Botimet albpaper, Tiranë 2004. ISBN: 99927-943-5-6.

PJESËMARRJE NË ORGANIZMA SHKENCORE ETJ. / PARTICIPATION IN SCIENTIFIC ORGANISATIONS ETC.

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- Member of AEE II (Energy Efficiency & Sustainability Expert -2012-2013) (**V. Lame-Muda)**
- *Member of the Chemistry-Physics Commission*, Albanian Academy of Sciences; 2020 – present. **(P. Malkaj)**
- *Board Member of the NanoAlb Research Center*, Albanian Academy of Sciences, Tirana; 2020 – present. **(P. Malkaj)**
- *Leader of the Research Group*: "Polymers and Polymer Electronics"; NanoAlb, Albanian Academy of Sciences, Tirana; 2020 – present.; **(P. Malkaj)**
- AAMP – Member of the Albanian Association for Medical Physics) **(D. Xhako)**
- IQE- *Director of* Institute for Quality in Education. **(D. Xhako)**
- AlbMedTech– Member of the Albanian Medical Technology Association **(D. Xhako)**
- NIP (National Institute of Physics) – Member, Albanian Academy of Sciences**, (D. Xhako)**
- *Member of the International Scientific Board of EFOMP* (The European Federation of Organizations for Medical Physics), 2022-2023. **(D. Xhako)**
- *Member of the International Scientific Board*: Professional Matters Committee, EFOMP (The European Federation of Organizations for Medical Physics), 2023-present. **(D. Xhako)**
- *Coordinator of the Research Group "Artificial Intelligence in Medicine*" Ai4med –2022 – ongoing. **(D. Xhako)**
- *Member of the Board of the Research Group "AI Applications in Medical Imaging Research*", part of the NanoAlb Research Institute. 2023 – ongoing. **(D. Xhako)**

PJESËMARRJE NË KOMITETE SHKENCORE TË KONFERENCAVE ETJ./ PARTICIPATION IN SCIENTIFIC COMITTEES OF CONFERENCES ETC.

P. Malkaj

- ***Co-organizer*** at the 7th NATIONAL CONFERENCE OF MEDICINE; Panel 3: Application of Technology in Medicine; November 15-16, 2019; Hotel Tirana.
- ***Coordinator*** of the FIRST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES "NEW TECHNOLOGIES AND APPLICATIONS IN MEDICINE, NTAM 2014", November 7- 8, 2014, Tirana, Albania.

J. Jani

- ***Member of organizing committee*** of the FIRST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES "NEW TECHNOLOGIES AND APPLICATIONS IN MEDICINE, NTAM 2014", November 7- 8, 2014, Tirana, Albania

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- ***Member of organizing committee*** of the 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES 2017 (ICEAS 2017), 16-17 November 2017, Tirana, Albania.
- ***Member of organizing committee*** of the 3nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.

D. Xhako

- ***Member of the Scientific Committee*** of "ANNUAL INTERNATIONAL CONGRESS ON COMPUTER SCIENCE" April 19-20, 2025, Oxford, United Kingdom / Online.
- ***Member of the Scientific Committee*** of "RESEARCH, APPLICATION, AND EDUCATIONAL METHODS – RAEM 2024", March 1-2, 2024, "Fan S. Noli" University, Korce, Albania.
- ***Member of the Scientific Committee*** of THE INTERNATIONAL CONFERENCE ON NATURAL SCIENCES, MATHEMATICS, AND TECHNOLOGY (ICNSMT - 2023), May 26, 2023, UAMD, Albania.
- ***Member of the Organizing Committee*** of THE INTERNATIONAL CONGRESS "NOVEL LATTICE FERMIONS AND THEIR SUITABILITY FOR HIGH-PERFORMANCE COMPUTING AND PERTURBATION THEORY" (NOVEL2023), March 6-10, 2023, Mainz Institute for Theoretical Physics (MITP), which is part of the PRISMA+ Cluster of Excellence.
- ***Member of the Scientific Committee*** of "THE THIRD INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022)", November 17-18, 2022, FIMIF/PUT, Tirana, Albania.
- ***Member of the Organizing Committee and Co-director*** *of the Project for Organizing Science Week*: "Data Science, Particle and Astroparticle Physics School in Tirana 2022", June 14-18, 2022, Faculty of Natural Sciences, Tirana, Albania.
- ***Member of the Organizing Committee*** of THE FIRST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES "NEW TECHNOLOGIES AND APPLICATIONS IN MEDICINE, NTAM 2014", November 7- 8, 2014, Tirana, Albania, organized by the Faculty of Mathematical and Physical Engineering, Hygeia Hospital, and the Albanian Society of Medical Physics (AAMP).

A. Gjevori

- ***Member of the Scientific Committee***: the 3nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.
- ***Member of the Organizing Committee***: TRENDS IN NANOTECHNOLOGY (TNT 2021) INTERNATIONAL CONFERENCE, October 04-08, Tirana, Albania.
- ***Member of the Scientific Committee***: 2nd INTERNATIONAL JOINT SCIENCE CONGRESS OF MATERIALS AND POLYMERS, Durrës, Albania, November 2018.

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- ***Member of the Scientific Committee***: INTERNATIONAL JOINT SCIENCE CONGRESS OF MATERIALS AND POLYMERS, Ohrid, Macedonia, August 2017.
- ***Member of the Scientific Committee***: INTERNATIONAL NETWORK FOR COOPERATION ON "MATERIALS AND THEIR APPLICATIONS", funded by DAAD, 2005-2016.

A. Hoxha

- ***Member of the Scientific Committee.*** 20th INTERNATIONAL CONFERENCE IN MULTIDISCIPLINARY SCIENCES "INNOVATION AND SUSTAINABILITY: CHALLENGES FOR A BETTER FUTURE" 2024, organized by Albanian University and the Faculty of Applied and Economic Sciences (Tirana, April 2024).
- ***Member of the Scientific Committee.*** the 3nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.
- ***Member of the Scientific Committee.*** of the 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES 2017 (ICEAS 2017), 16-17 November 2017, Tirana, Albania.
- ***Member of the Organizing Committee.*** ISCMP 1 – JOINT SCIENCE CONGRESS OF MATERIALS AND POLYMERS (Macedonia, August 2017).
- ***Member of the Organizing Committee.*** ISCMP 2 – JOINT SCIENCE CONGRESS OF MATERIALS AND POLYMERS (Albania, November 2018).

Dh. Kuqi

- ***Member of organizing committee*** of the "NATIONAL CONFERENCE ON ADVANCED STUDIES IN MATHEMATICAL, PHYSICAL AND CHEMICAL ENGINEERING, 28 October 2011, in Tirana, Albania
- ***Member of scientific committee*** of the "FIRST INTERNATIONAL CONFERENCE ON APPLIED SCIENCES "NEW TECHNOLOGIES AND APPLICATIONS IN MEDICINE", (NTAM 2014), 7-8 November 2014, Tirana, Albania
- ***Member of scientific committee*** of: "THE 2ND INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES 2017" (ICEAS 2017), 16-17 November 2017, in Tirana, Albania.
- ***Member of scientific committee*** of the "*1st* INTERNATIONAL CONFERENCE ON APPLIED PHYSICS" (iCAP 2019), 20-22, November 2019, Tirana, Albania
- ***Member of scientific committee and organizing committee*** of THE 3RD INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES *2022*" (ICEAS 2022), 17-18 November, 2022, Tirana, Albania.

M. Kuqali

- ***Member of Scientific Committee and organizing committee*** of "THE 3RD INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES 2022" (ICEAS 2022), held on 17-18 November 2022, Tirana, Albania.

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- ***Member of scientific committee*** of: "THE 2ND INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES *2017*" (ICEAS 2017), 16-17 November 2017, Tirana, Albania
- ***Member of Organizing Committee*** of "The 1st CONFERENCE ON APPLIED PHYSICS", 20-22 November 2019, Tirana, Albania

DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering currently consists of 9 academic staff members:

Assoc. Prof. Albana Jano

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Assoc. Prof. Bujar Dida
Assoc. Prof. Dafina Karaj
Assoc. Prof. Edlira Baraj
Assoc. Prof. Edlira Tako
Assoc. Prof. Enkela Noçka
Assoc. Prof. Ilva Gjikaj
Assoc. Prof. Rajmonda Lilo
Assoc. Prof. Valbona Hoxha

Departamenti i Inxhinierisë Kimike në Universitetin Politeknik të Tiranës ka si synim të ofrojë një edukim të thelluar dhe cilësor në fushën e inxhinierisë kimike, duke përgatitur profesionistë të kualifikuar, të pajisur me aftësitë teorike dhe praktike për të trajtuar dhe zgjidhur probleme komplekse në industrinë kimike dhe sektorë të tjerë të lidhur me të.

Objektivat kryesore të departamentit janë:

1. **Formimi i inxhinierëve të kualifikuar**: Ofrimi i një edukimi të thelluar dhe praktik në fushën e inxhinierisë kimike, veçanërisht në dizajnimin, optimizimin dhe kontrollin e proceseve kimike industriale.
2. **Zhvillimi i kërkimit shkencor dhe aplikimeve të reja** në fusha të tilla si: proceset kimike industriale, mbrojtja e mjedisit dhe korrozioni, zhvillimi i teknologjive të qëndrueshme, inxhinieria e materialeve, energjia dhe burimet natyrore, etj.
3. **Përgatitja për sfida profesionale dhe kontribuimi/bashkëpunimi me industrinë** në fusha të rëndësishme si: petrokimia, farmaceutika, ushqimi dhe siguria ushqimore, industria e materialeve, energjia dhe mjedisi.

Departamenti i Inxhinierisë Kimike luan një rol të rëndësishëm në lidhjen e teorisë kimike me praktikat industriale dhe inxhinierike, duke ofruar një edukim të integruar që mbulon aspekte të ndryshme të proceseve kimike, projektimit të sistemeve inxhinierike dhe menaxhimit të proceseve industriale. Ai gjithashtu ka një rol të rëndësishëm në zhvillimin e teknologjive të qëndrueshme dhe risive në sektorët si energjia e rinovueshme, menaxhimi i mbetjeve dhe teknologjitë e pastrimit të ujërave.

Nëpërmjet përmirësimit të metodave didaktike të mësimdhënies, si dhe përmirësimit e përsosjes së infrastrukturës dhe kapaciteteve teknike të kërkimit shkencor, Departamenti i Inxhinierisë Kimike synon të bëhet një strukturë e rëndësishme referuese për metodat e mësimdhënies në kimi, për vlerësimin, kontrollin e monitorimin e parametrave të ndryshëm mjedisorë, si dhe kontribuese në rrjetin kombëtar dhe ndërkombëtar të institucioneve shkencore të angazhuara në fushat përkatëse të ekspertizës.

Ky departament mbulon gjithë disiplinat e Kimisë që zhvillohen në të gjitha programet e studimit të Universitetit Politeknik të Tiranës.

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The Department of Chemical Engineering at the Polytechnic University of Tirana aims to provide advanced and high-quality education in the field of chemical engineering, preparing qualified professionals equipped with both theoretical and practical skills to address and solve complex problems in the chemical industry and related sectors.

The main objectives of the department are:

1. **Training qualified engineers**: Offering advanced and practical education in chemical engineering, particularly in the design, optimization, and control of industrial chemical processes.
2. **Advancing scientific research and new applications** in areas such as industrial chemical processes, environmental protection and corrosion, the development of sustainable technologies, materials engineering, energy, and natural resources, among others.
3. **Preparing for professional challenges and collaborating** with industry in key areas such as petrochemicals, pharmaceuticals, food and food safety, materials industry, energy, and the environment.

The Department of Chemical Engineering plays a significant role in linking chemical theory with industrial and engineering practices, offering integrated education that covers various aspects of chemical processes, the design of engineering systems, and the management of industrial processes. It also has a critical role in developing sustainable technologies and innovations in sectors like renewable energy, waste management, and water purification technologies.
Through the improvement of teaching methods and the enhancement of infrastructure and technical capacities for scientific research, the Department of Chemical Engineering aims to become a key reference institution for teaching methods in chemistry, the evaluation and monitoring of various environmental parameters, and a contributor to national and international networks of scientific institutions engaged in relevant areas of expertise.

This department covers all chemistry-related disciplines taught across all study programs at the Polytechnic University of Tirana.

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24. **I. Gjikaj**, M. Vasjari, M. Terpo. *"Biomonitoring of urban air pollution of Tirana using the moss bag technique"*. PROCEEDINGS OF THE 5th INTERNATIONAL CONFERENCE OF ECOSYSTEMS, 5-8 June, 2015 Tirana, ALBANIA. pp. 179-182. ISBN: 978-9928-4248-3-9.

23. **I. Gjikaj**, M. Vasjari, M. Terpo. *"Geochemical normalization method in biomonitoring of heavy metal air pollution"*. PROCEEDINGS OF THE 5th INTERNATIONAL CONFERENCE OF ECOSYSTEMS, 5-8 June, 2015 Tirana, ALBANIA. pp. 183-187. ISBN: 978-9928-4248-3-9.

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21. **E. Noçka**, **I. Gjikaj**, A. Devolli. *"Calibration curves and analytical areas of measurement for a wide area of the anionic detergent concentrations"*. PROCEEDINGS OF THE INTERNATİONAL CONFERENCE ON EMERGİNG TRENDS İN TECHNOLOGY, SCİENCE AND UPCOMİNG RESEARCH İN COMPUTER SCİENCE DAVIM, 25th April 2015, Faridabad, India. pp. 477-479. ISBN: 978-81-931039-3-7.

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18. **I. Gjikaj**, M. Vasjari, P. Lazo, J. Marka, M. Terpo, F. Malaj. *"Air pollution monitoring in the city of Tirana using mosses as bioindicators"*. PROCEEDINGS OF THE NATIONAL CHEMISTRY CONFERENCE: CHEMISTRY AND THE CURRENT DEVELOPMENT OF THE COUNTRY, October 20, 2011, Tirana, Albania. pp. 260-264. ISBN 978-99956-10-41-8.

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15. **B. Dida**, T. Miura, T. Furuhata, *Modeling the Chemistry of Methane Combustion in Gas-Chemical Turbine*, PROCEEDINGS OF THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November, 2017, Tirana, Albania. SPECIAL NUMBER OF THE BULLETIN OF TECHNICAL SCIENCES (UPT), pp. 27-34. ISSN 05 62 B 945.

14. F. Capiteli, **B. Dida**, G. Della Ventura, F. Baldassare, D. Capiteli, G. S. Sensi, A. Mele, D. Siliqi, "*Functional Nano-Hydroxyapatite for Applications in Conservation of Stony Monuments of Cultural Herritage*", PROCEEDINGS OF THE 2ND INTERNATIONAL ONLINE CONFERENCE ON CRYSTALS (IOCC 2020), 10–20 November 2020. PROCEEDINGS 2020, 62(1), 11**;** ISSN: 2504-3900

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11. **B. Dida**, T. Miura, T. Furuhata, M. Yaga, "*Burning characteristics of Fuel-Rich Methane Laminar Premixed Flames*", PROCEEDINGS OF THE 36TH JAPANESE SOCIETY OF COMBUSTION, pp. 223 – 225, Sapporo, Japan (1998).

10. N. Arai**, B. Dida**, T. Shano, T. Miura, T. Furuhata, T. Miyazaki, N. Kobayashi, "*Combustion characteristics of pressurized methane-air combustor for chemical gas turbine system*", PROCEEDINGS OF THE ELEVENTH INTERNATIONAL HEAT TRANSFER CONFERENCE. August, 23-28, 1998, Kyongju, Korea, Vol. 37(1998), 283-288. DOI: 10.1615/IHTC11.4250 ISSN Online: 2377-424X. ISBN Print:1-56032-797-9.

9. T. Furuhata, M. Yaga, **B. Dida**, T. Miura, *"Burning characteristics of unmixed laminar fuel reach methane-air flame"*. PROCEEDINGS OF THE 35TH JAPANESE SYMPOSIUM ON COMBUSTION, Tokyo, Japan (1997). pp. 127-129, Tokyo, Japan.

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2. **E. Noçka (Karroçi**), **V. Hoxha**, A. Devolli. *Control of several physicochemical parameters of surface waters*. PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON THE DEVELOPMENT OF THE ALBANIAN MARITIME SYSTEM AND EUROPEAN UNION EXPERIENCE, Tirana 2010, Albania. pp. 178-189. ISBN 9781609850012.

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MONOGRAFI/MONOGRAPHY

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- **B. Dida**, *Modeling and numerical simulation of turbulent rich methane-air flame and application to chemical gas turbine*, Tohoku University Repository, 11/1998, Sendai, Japan, T1H102323.

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- **B. Dida**, *Studim mbi mundësinë e transformimit të kontaktit të njëfishtë në të dyfishte për rritjen e shkallës së shfrytëzimit të gazit SO_2 dhe mbrojtjen e mjedisit*, SHBLU, 9/1991, Tiranë.

BORDE EDITORIAL PERIODIKËSH SHKENCORE/ EDITORIAL BOARD PEER-REVIEW JOURNALS

V. Hoxha

Member of Editorial Board of the "INTERNATIONAL JOURNAL OF ENVIRONMENTAL MONITORING AND ANALYSIS" (IJEMA); ISSN Print: 2328-7659; ISSN Online: 2328-766. (April 2020 - July 2024).

PROJEKTE, TEMA STUDIMORE & AKTIVITETE TË TJERA KËRKIMORE-SHKENCORE/ RESEARCH-SCIENTIFIC PROJECTS, STUDY THESIS & OTHER ACTIVITIES

- **Project:** *Investigating the Impact of Open Burn Pits on Air Pollution in Albania.* Funded by AADF, within the framework of the READ Program, implementation period: 2024-2025. (**E. Baraj (Leader/Coordinator), R. Lilo (member), E. Tako (member)**).
- **The Project:** "*Strengthening the Research Infrastructure at Chemistry Department, FIMIF-PUT, as a necessary tool to achieve academic and research standards*". Project No. 854/1, 12 months, Biodiversity and Environment, Funded by AKKSHI. (August 2022 - August 2023) (**E. Baraj (Leader), R. Lilo (Member), V. Hoxha (Member), E. Tako (Member), A. Jano (Member), B. Dida (Member), E. Noçka (Member), I. Gjikaj (member), D. Karaj (member)).**
- **The Project:** *NanoAlb Ignite Projects 2022-2023 Preparation and characterization of PVA pure electrofiber nanofibers and PVA / MMT matrix to encapsulate an essential oil of Albanian medicinal plant for biomedical applications*. Funded by AKKSHI 2022-2023. (**E. Tako**)
- **The Project:** "*Zonal and Temporal Assessment of Physical, Physico-Chemical, and Seismic Parameters, Heat Flow, and Geothermal Energy Modeling in the Elbasan Region*" projects of PKKZH, funded by AKKSHI 2022-2023 (**E. Tako**).
- ***Project**: Innovative Nanomaterials Based on Fluorohydroxyapatites for Dental Applications*, AKKSHI, 2023-2025. **(B. Dida, D. Karaj, member**).
- **The Project**: "*Preparation and Characterization of PVA Pure Electrofiber Nanofibers and PVA/MMT Matrix to Encapsulate an Essential Oil of Albanian Medicinal Plant for Biomedical Applications*". Acronym: *PvaNANOMat NanoAlb Ignite Projects* 2022-2024, funded by the *Academy of Sciences of Albania* within the framework of the IInd Call for Projects Related to COVID-19 and Other Emergent Nanotechnology Applications Areas 2022-2024**.** (**E. Tako, member**).

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- ***Post-Doctoral studies*** within the framework of the DIPLOMAzia2 project. The study period extended from February 2017 to July 2017 and was conducted at the National Research Council of Italy (CNR) Institute of Geosciences and Earth Resources (IGG) - Pisa (Italy). (**E. Tako**).
- **EU Project:** *"Support to the Kosovo Competition Authority and the State Aid Commission"* (2020). (**E. Baraj**)
- ***Project****: Synthesis and Characterization of New Nanomaterials for Use in the Restoration and Maintenance of Facades of Buildings Classified as Cultural Monuments*, AKKSHI, 2018-2020. **(B. Dida (Leader), D. Karaj (Member)).**
- *The Messinian Salinity Crisis in Albania* (Tirana, 2019-2021). **(E. Noçka, Member**).
- ***Post-Doctoral studies*** in the framework of the project Erasmus Mundus Action 2 and S.U.N.B.E.A.M. (Structured University mobility between the Balkans and Europe for the Adriatic-ionian Macroregion), on the topic: "*Recovery and biorecovery of heavy metals from electronic waste*". The study period extends from November 2017 - July 2018 and took place at the Department of Life and Environmental Sciences, Politecnico delle Marche University, Ancona, Italy **(D. Karaj).**
- **The project**: *"A Scientific Approach to Identifying the Potential of Optimization in Water Pollution Control in Albania,"* implemented in collaboration with BOKU University of Vienna, funded by AKTI, 2015-2017. (**R. Lilo** (**Coordinator for the Albanian Side), E. Baraj (member)).**
- **EU Project:** *"Harmonisation of Public Procurement System in Ukraine with EU Standards"* (2014, 2016). (**E. Baraj**)
- **The Project:** "*Assessment of the Water Quality of Erzeni River in Albania and the Impact of Economic Developments Therein***.**" Implemented by DCI/FMEPE/PUT, within the framework of the Bilateral Technical and Scientific Cooperation Program with Austria, funded by AKTI and CEI-KEP Austria. Collaboration with the Institute of Sanitary Engineering and Water Pollution Control, BOKU, Vienna, 2013-2014. *Project Member*, as part of DCI/FMEPE. **(R. Lilo (Coordinator for the Albanian Side), E. Baraj, E. Noçka, E. Tako, V. Hoxha, I. Gjikaj, D. Karaj (Member))**
- **Leader/Coordinator** for the Albanian Side of EU Projects in Support of Competition and State Aid in Albania, within the Frameworks of the CARDS 2005 and IPA 2008 Programs**.** (**E. Baraj**)
- **Participant in the UNEP Project***: Preleminary remediation feasibility study for former chemical factory – Vlora Hotspot and preleminary solid waste management plan for municipality of Vlora (UNEP), 2003-2005* **(R. Lilo).**
- **Leader/Coordinator for the Albanian Side** of the EU-funded projects in support of Competition and State Aid in Albania, under the CARDS 2005 and IPA 2008 Programs. **(E. Baraj)**
- ***Member of Joint Monitoring Task Force (MTF) në Projektin*** *"Lake Ohrid Conservaton Project" financuar nga GEF/WB, 1998-2001* **(R. Lilo).**
- ***Participant in the WHO Project****: "Improving of drinking water quality" 1993-1994* **(R. Lilo).**

Studies and Expertise

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- **UNEP/MAP-PAP/RAC-SPA/RAC, MET and NAPA (2021).** *Integrated Monitoring Programme – Albania.* Prepared by (alphabetical order): **E. Baraj**, F. Bego, S. Beqiraj, H. Beshku, O. Brivois, E. Cani, M. Cara, D. Cebrian, Z. Dedej, I. Guala, C. Guitart, D. Holcer, C. Ioakemidis, R. Kapedani, L. Kashta, Y. Kaska, N. Krstulović, P. Llaveshi, **R. Lilo**, M. Marković, R. Precali, E. Sacdanaku, I. Sekovski, A. Ylli, A. Zarrouk, M. Zenatello, A. Zenetos, O. Zoto. Eds: PAP/RAC, GEF Adriatic Project. pp. 140 + Annexes.
- **Expert in** "*GEF Adriatic Project: Implementation of Ecosystem Approach in the Adriatic Sea through Marine Spatial Planning,*" by the UNEP/MAP Coordinating Unit, PAP/RAC, and SPA/RAC, 2018-2019. (**E. Baraj, R. Lilo**)
- **E. Baraj (2020).** *Report on the Further Development of State Aid Awareness-Raising and Advocacy Activities in Kosovo.* EU support to the Kosovo Competition Authority and the State Aid Commission. Europe Aid/139447/DH/SER/XK.
- **E. Baraj (2016).** *Report on Technical Aspects of the Development of State Aid Register in Ukraine.* EU-funded Project "Harmonization of Public Procurement System in Ukraine with EU Standards," 49 pages.
- **E. Baraj (2014).** *Report on Draft Guidelines for the Preparation of Ukrainian State Aid Inventory.* EU-funded Project "Harmonisation of Public Procurement System in Ukraine with EU Standards," 37 pages.
- **National Expert in the project** *"Support for SME's Creation and Development in Albania"*, funded by UNDP-UNIDO (Vienna), 1996-1997. **(E. Baraj)**
- **Trainer at ITAP** in the field of competition and state aid (2005-2009). **(E. Baraj)**

International Expert (Short-Term):

- **National Expert** in the project *"Support for SMEs' Creation and Development in Albania,"* funded by UNDP-UNIDO (Vienna), 1996-1997. (**E. Baraj**)
- **Chair of Working Groups** for the Preparation of the Legal and Institutional Frameworks in the Fields of Consumer Protection (2001-2002), Competition (2001-2004), and State Aid (2004-2010). (**E. Baraj**)
- **Trainer** at ITAP for the areas of Competition and State Aid (2005-2009). (**E. Baraj**)
- **Member** of the Scientific Council of the Ministry of Food Industry (1989-1991) and the Faculty of Natural Sciences (1983-1986). (**E. Baraj**)
- **Participant** (also as a panelist and/or moderator) and speaker at international events organized between 2001-2010 by OECD, UNCTAD, DG Comp, WB, and ICN, particularly focusing on competition legislation and state aid policies. (**E. Baraj**)
- **Environmental Expert in the Project:** *Preliminary Remediation Feasibility Study for Former Chemical Factory – Vlora Hotspot and Preliminary Solid Waste Management Plan for the Municipality of Vlora* (UNEP), 2003-2005. **(R. Lilo)**
- **Member of the Joint Monitoring Task Force (MTF)** in the *Lake Ohrid Conservation Project*, funded by GEF/WB, 1998-2001. **(R. Lilo)**
- **Participant in the WHO Project:** *Improving of Drinking Water Quality*, 1993-1994. **(R. Lilo)**

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- **Chair of the Working Groups** for the preparation of the legal and institutional framework in the fields of *consumer protection* (2001-2002), *competition* (2001-2004), and *state aid* (2004-2010). **(E. Baraj)**

UDHËHEQJE DISERTACIONESH/ PhD DISSERTATIONS SUPERVISIONS

E. Noçka

Scientific Supervisor of the Doctorate titled *"The Chemistry of Deep Groundwater Near Oil Reservoirs in Zone X."* PhD student: Ana Dindi, Faculty of Geology and Mining, Polytechnic University of Tirana, 2024-ongoing.

D. Karaj

Scientific Supervisor of the Doctoral Dissertation: "*LNG Infrastructure (Liquefied Natural Gas) from Source to Consumer*," PhD student: Adelina Bakiu**,** Faculty of Geology and Mining, Polytechnic University of Tirana, 2023-ongoing.

TEKSTE- BOOKS

R. Totoni (Lilo), E. Baraj, V. Hoxha, A. Jano. *Kimia e përgjithshme - Për studentët e degëve inxhinierike*, Shtëpia Botuese Mediaprint ISBN: 978-9928-08-362-3, Botimi i parë, 2018, Ribotim, 2021.

R. Totoni (Lilo), E. Baraj. *Manual i punëve të laboratorit në kiminë e përgjithshme - Për studentët e degëve inxhinierike*, Shtëpia Botuese Mediaprint ISBN:978-9928-08-372-2. Botimi i parë, 2018.

E. Luzi, E. Mulla, **R. Totoni (Lilo).** *Kimi e Pergjithshme dhe Inorganike- Për studentet e degeve inxhinierike. (Botim i ripunuar)*, Shtëpia Botuese Vernon Publishing, Sh. P.K ISBN: 99943-777-6-0, Botimi i parë 2006.

E. Luzi, E. Mulla, **R. Totoni (Lilo).** *Kimi e Pergjithshme dhe Inorganike- Për studentet e degeve inxhinierike.* Shtëpia Botuese Vernon Publishing, Sh. P.K ISBN: 99943-777-0-1, Botimi i parë, 2005, Botim i ripunuar, 2006.

L. Xhezo, **R. Totoni (Lilo**). *Kimia 11*. Shtëpia Botuese Albas, Tiranë 2012. ISBN 978-9928-02-424-4

L. Xhezo, **R. Totoni (Lilo**). *Kimia* 10. Shtëpia Botuese Albas, Tiranë 2011. ISBN 978-9928-02-087-1

L. Xhezo, **R. Totoni (Lilo**). *Kimia* 9, *për klasën e 9-të të shkollës 9-vjecare*. Shtëpia Botuese Albas, Tiranë 2008. ISBN 978-99943-54-76-4

L. Xhezo, **R. Totoni (Lilo**). *Kimia* 8, *për klasën e 8-të të shkollës 9-vjecare*. Shtëpia Botuese Albas Tiranë 2008. ISBN 978-99943-54-31-3

E. Noçka, **B. Dida, D. Karaj** "*Kimia-shembuj dhe probleme*", Kristalina-KH, Shkurt 2021 (ribotim 2022) , ISBN: 978-9928-309-22-8.

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D. Karaj, B. Dida, **E. Noçka** "*Kimia-Problema te zgjidhura*", Botimet Univers Tirane , Nentor 2021 (ribotim 2022), ISBN: 978-9928-355-08-9.

B. Dida, *Reaktorët Kimikë,* Tiranë 2025

B. Dida, *Reaktorët Kimikë, shembuj dhe probleme.* Tiranë 2025

E. Tako, I. Gjikaj "*Kimia Organike. Për Degët Inxhinierike*", Pegi, Tiranë 2016 (ribotim 2018), ISBN: 978-9928-124-45-6.

Kimia 12, ISBN: 978-9928-248-95-4, Përshtatje në shqip, sipas marrëveshjes me Oxford University Press. **E. Tako**-Anëtare e grupit të punës. Shtëpia botuese "Pegi" 2018.

M. Prifti, N. Guga, **E. Tako**. *Kimia 11 (bërthamë*). Shtëpia botuese Pegi, Tirane 2012. ISBN:978-9928-124-56-2

B. Dida, *Kimia fizike* (për studentët e inxhinierisë), 10/2018, SHLBSH e Re, ISBN: 978-99943-2-430-9

B. Dida, *Bazat e korrozionit* (për studentët e inxhinierisë), 03/2018, SHBLSH e Re, Tirana, ISBN: 978-9943-2-413-2

B. Dida, *Reaktorët kimikë: Shembuj dhe probleme*, 09/1998, SHLBU Tirana.

PJESËMARRJE NË ORGANIZMA SHKENCORE ETJ./ PARTICIPATION IN SCIENTIFIC ORGANISATIONS ETC.

- **B. Dida, President of the Scientific Association** *Association of Albanian Crystallographers (AAC)*, Association of Albanian Crystallographers (aac-cryst.eu).
- **B. Dida, Member of the Assembly** of the *International Union of Crystallography (IUCr)* with voting rights for Albania and Kosovo.
- **B. Dida, Member of the International Union of Crystallography (IUCr)** (individual membership).
- **B. Dida, Member of the European Crystallography Association (ECA)** (as AAC association and individual).
- **B. Dida, Member of the Italian Crystallography Association (ICA)** (individual membership).
- **B. Dida, Member of the Association of Students Who Have Completed Postdoctoral Studies in Japan** (Alumni of MONBUSHO).
- **E. Baraj, Member of the Scientific Council** of the *Ministry of Food Industry* (1989-1991) and the *Faculty of Natural Sciences* (1983-1986).
- **V. Hoxha, Member of the** International of Association of Engineers. April 2022 – ongoing.
- **E. Tako, Member** of the Geosciences and Geoengineering Research Unit, Academy of Sciences of Albania.

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PJESËMARRJE NË KOMITETE SHKENCORE TË KONFERENCAVE ETJ. /PARTICIPATION IN SCIENTIFIC COMITTEES OF CONFERENCES ETC.

E. Noçka

- **Member of the Scientific Committee** of THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November, 2017, Tirana, Albania.
- **Member of the Scientific Committee** of The 3rd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.

E. Tako

- **Member of the Organizing Committee and Session Moderator** at the *5th* INTERNATIONAL CONFERENCE ON NATURAL AND ENGINEERING SCIENCES, August 27-30, 2019, Istanbul, Turkey.
- **Co-Chair** of 5th INTERNATIONAL CONGRESS ON EDUCATION SCIENCE AND LEANING TECHNOLOGIES (ICESLT), November 06-10 in Sarajevo, Bosnia and Herzegovina 2019

E. Baraj

- **Participant (also as a panelist and/or moderator) and presenter** in international events organized from 2001 to 2010 by OECD, UNCTAD, DG Comp, WB, and ICN, focusing especially on legislation and policies related to competition and state aid.

I. Gjikaj

- **Member of the Scientific Committee** of THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November, 2017, Tirana, Albania.
- **Member of the Scientific Committee** of The 3rd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.

V. Hoxha

- **Member of the Organizing Committee** of the 8th INTERNATIONAL CONFERENCE ON NATURAL AND ENGINEERING SCIENCES, 21-23 November 2023. ONLINE, Akdeniz University, Ant Academy.
- **Member of the Scientific Committee** of the 9th INTERNATIONAL CONFERENCE ON NATURAL AND ENGINEERING SCIENCES, November 22-24, 2024. ONLINE.

D. Karaj

- **Member of the Scientific Committee** of The 3rd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCES (ICEAS 2022), 17-18 November 2022, Tirana, Albania.

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CENTER OF FOREIGN LANGUAGES

The Center of Foreign Languages currently consists of 14 academic staff members

Prof. Dr. Fatmir Vrapi
Prof. Dr. Lindita Gjata
Prof. Dr. Silvana Vishkurti
Assoc. Prof. Albana Avrami
Assoc. Prof. Anjeza Brahja
Assoc. Prof. Edita Stojani
Assoc. Prof. Lediana Beshaj
Assoc. Prof. Miranda Enesi
Dr. Isida Shehu
Dr. Jola Bojaxhi
Dr. Vanina Kanini
M.Sc. Megi Plaku
M.Sc. Viola Karapici
M.Sc. Reko Dida

Qendra e Gjuhëve të Huaja si një nga njësitë bazë të FIMIF, në Universitetin Politeknik të Tiranës ne zbatim te politikave per arritjen e standardeve dhe sigurimin e cilësisë së diplomave të UPT në nivelet Bachelor, Master ne Arsimin e Lartë, synon ofrimin e një edukimi cilësor në fushën e gjuhëve të huaja, mbështetur në programin e kornizës Europiane te Gjuhëve sipas Këshillit të Europës si dhe hartimin e kurrikulave të gjuhëve bazë të referuesit për gjuhët e nivelet e përcaktuara në 2001, duke kontribuar dhe në zhvillimin e aftësive e shprehive gjuhësore dhe komunikative të studentëve për t'u integruar në një mjedis akademik dhe profesional ndërkombëtar për një karriere të suksesshme.

Qendra e Gjuhëve të Huaja në përputhje me zhvillimet bashkëkohore europiane, si dhe objektivat e Arsimit të Lartë Shqiptar, kërkesat e nevojat funksionale e imediate të studentëve për nivele më të larta në gjuhët e huaja është përpjekur që t'u përgjigjet këtyre zhvillimeve, e kërkesave konkrete e specifike për nivelet e gjuhës së huaj, në ciklet e parë, të dytë e të tretë të studimit universitar e pasuniversitar.

Gjithashtu, synohet të standardizohen programet e mësimdhënies në Fakultete e Degë të ndryshme Inxhinierike për të synuar një optimizim të krediteve, shtrirje kohore të programit për të realizuar objektivat e duhura në fushën e gjuhës së aplikuar. Përparësi marrin Metodat Komunikative, interaktive dhe efikase, por edhe një bazë laboratorike e kompjuterizuar, krijimi i një sitografie, metodologjia e kërkimit dhe shfletimit të fjalorëve terminologjikë etj. Në synim të edukimit profesional, shumëgjuhësor të studentëve, duke nxitur interesin e tyre për lëndën e Gjuhës së Huaj, duke ofruar njohuri dhe aftësi që i ndihmojnë ata të komunikojnë me sukses në një hapësirë të gjerë fushash për të krijuar mundësi për shkëmbime akademike dhe punësimi në treg e nivel ndërkombëtar. Gjithashtu, QGJH kontribuon në forcimin e marrëdhënieve ndërkombëtare të universitetit përmes mësimdhënies dhe aktiviteteve njohëse e kulturore.

Nga fushat më të rëndësishme që mbulon dhe është specializuar personeli akademik i Qendrës së Gjuhëve të Huaja janë si më poshtë:

- Gjuhësi e aplikuar

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- Gjuhëse përqasëse dhe Metodike në gjuhët e huaja
- Terminologjia dhe vecoritë e ekuivalentimit të termave
- Komunikimi dhe përkthimi në gjuhët e huaja
- Interpretimi dhe komunikimi gjuhesor
- Standardet, zhvillimi dhe Korniza Europiane e Gjuhëve të Huaja
- Vlerësimi/pergatitja e testeve e niveleve per provimet Ndërkombëtare

Objektivat kryesore të Qendrës së Gjuhëve të Huaja janë:

1. **Përmirësimi i aftësive gjuhësore të studentëve**: Ofrimi i një programi të plotë mësimor mbi zhvillimin e aftësive të komunikimit oral dhe shkrimor në gjuhë të huaja (anglisht, frëngjisht, gjermanisht, italisht, japonisht etj.), me fokus në përdorimin e këtyre gjuhëve për qëllime akademike e profesionale.
2. **Përgatitja për tregun ndërkombëtar të punës**: Sigurimi i aftësive e shprehive gjuhësore dhe komunikative për studentët, për të qenë të përgatitur e punuar në mjedise shumëkombëshe si dhe angazhimi e përfshirja në bashkëpunime e projekte ndërkombëtare.
3. **Zhvillimi i një mjedisi ndërkulturor**: Inkurajimi i njohurive për kulturat e ndryshme bashke me zhvillimin e aftësive për komunikimin ndërkulturor, që mbetet thelbësor e funksional për të operuar me sukses në një botë gjithnjë e më të ndërlidhur globalisht.

Qendra e Gjuhëve të Huaja mbulon gjithë disiplinat e Gjuhës së Huaj (anglisht, frëngjisht, gjermanisht, italisht, japonisht etj.) që zhvillohen në të gjitha programet e studimit të Universitetit Politeknik të Tiranës si dhe disiplinën e Komunikimit Inxhinierik ne programet e Ciklit të Dytë.

The Foreign Language Center, as one of the fundamental units of the Faculty of Mathematical Engineering and Physical Engineering (FIMIF) at the Polytechnic University of Tirana, aims to implement policies to achieve standards and ensure the quality of PUT degrees at the Bachelor's and Master's levels in higher education. It seeks to provide quality education in foreign languages, based on the European Language Framework program established by the Council of Europe, as well as to develop curricula for foundational languages following the 2001 reference levels. The center contributes to the development of students' linguistic and communicative skills, enabling them to integrate into an international academic and professional environment for a successful career.

In alignment with contemporary European developments and the objectives of Albanian higher education, as well as the functional and immediate needs of students for advanced foreign language proficiency, the Foreign Language Center has sought to

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respond to these developments and specific demands for foreign language levels in undergraduate, graduate, and postgraduate cycles.

Additionally, the center aims to standardize teaching programs across various faculties and engineering branches to optimize credit allocation and extend program durations to achieve appropriate objectives in applied language. Priority is given to communicative, interactive, and efficient teaching methods, alongside a computerized laboratory base, the creation of an online repository, research methodology, and exploration of terminological dictionaries. The goal is to offer students professional, multilingual education, encouraging their interest in foreign language subjects and providing them with the knowledge and skills needed to communicate successfully across a wide range of fields. This fosters opportunities for academic exchanges and employment in international markets. Moreover, the center strengthens the university's international relations through teaching and cultural activities.

The academic staff of the Foreign Language Center specializes in and covers the following key areas:

- Applied linguistics
- Comparative linguistics and methodology in foreign languages
- Terminology and equivalence features of terms
- Communication and translation in foreign languages
- Interpretation and linguistic communication
- Standards, development, and the European Framework for Foreign Languages
- Assessment and preparation of level tests for international exams

The main objectives of the Foreign Language Center are:

1. **Improving students' language skills:** Offering a comprehensive curriculum for the development of oral and written communication skills in foreign languages (English, French, German, Italian, Japanese, etc.), with a focus on their application for academic and professional purposes.
2. **Preparation for the international labor market:** Equipping students with linguistic and communicative skills to work in multicultural environments and engage in international collaborations and projects.
3. **Fostering an intercultural environment:** Encouraging knowledge of diverse cultures while developing intercultural communication skills essential for successfully operating in an increasingly interconnected global world.

The Foreign Language Center oversees all Foreign Language disciplines (English, French, German, Italian, Japanese, etc.) offered across all study programs at the Polytechnic University of Tirana, as well as the discipline of Engineering Communication in Second Cycle programs.

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27. **E. Stojani.** "*The integration of Italian and French in the terminological lexicon of Mechanical Engineering*"; ACTES DE LA CONFÉRENCE INTERNATIONALE "50 ANS D'ENSEIGNEMENT ET DE RECHERCHE AU DÉPARTEMENT DE FRANÇAIS DE L'UNIVERSITÉ DE TIRANA", UT. 5 Mai 2016, Tirana, Albania. pp. 211-216. ISBN: 978-9928-131-67-6.

26. **E. Stojani.** "*The influence of French and Italian on the enrichment of mechanical engineering vocabulary*". PROCEEDINGS OF THE INTERNATIONAL CONFERENCE "TEACHING FRENCH/IN FRENCH IN THE UNIVERSITY CONTEXT: INNOVATIONS IN METHODOLOGY AND PRACTICE", 26 May 2017, Tiranë, Albania. pp.117-120. ISBN: 978-9928-08-509-2.

25. **F. Vrapi, E. Stojani**, *Thoughts about translating the adaption of some idioms and phraseological expressions into foreign language*, PROCEEDINGS OF THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE, 16-17 November, 2017, Tirana, Albania. SPECIAL NUMBER OF THE BULLETIN OF TECHNICAL SCIENCES (UPT), pp. 76-85. ISSN 05 62 B 945.

24. **E. Stojani, F. Vrapi**, *Neologisms and linguistics bays as a significant contributor in the development of the terminology in the field mechanical engineering in the Albanian language*, PROCEEDINGS OF THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November, 2017, Tirana, Albania. SPECIAL NUMBER OF THE BULLETIN OF TECHNICAL SCIENCES (UPT), pp. 53-58. ISSN 05 62 B 945.

23. **A. Brahja**, *ESP- A new experience for the engineering students in Albania***,** PROCEEDINGS OF THE 6TH EUROPEAN CONFERENCE ON EDUCATION AND APPLIED PSYCHOLOGY (May 31, 2015), Vienna, Austria. Vienna, OR: «East West» Association for Advanced Studies and Higher Education GmbH, Vienna, Austria. pp. 4-8, ISBN–13 978-3-903063-50-1

22. **L. Beshaj**, M. Zacellari. "*Multilingualism and EU enlargement; Linguistic and translation issues*" PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC

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CONFERENCE "MULTILINGUALISM IN THE EU-LINGUISTIC, CULTURAL AND SOCIAL ISSUES" 09 May, 2024, Tirana, Albania. pp. 152 – 162; ISBN 9789928474438.

21. M. Zaçellari, **L. Beshaj**. "*Multilingualism and Diversity in Europe; Linguistic integration of immigrants in EU countries and the preservation of the native languages*" PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC CONFERENCE "MULTILINGUALISM IN THE EU- LINGUISTIC, CULTURAL AND SOCIAL ISSUES" 09 May, 2024, Tirana, Albania. pp. 143 – 151; ISBN 9789928474438

20. **L. Beshaj**. "*Politikat gjuhësore në Bashkimin Europian dhe hartimi i politikave gjuhësore*" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON FOREIGN LANGUAGES" 21 Shkurt 2023, Instituti Albanologjik ne Prishtine. Pp. 56 - 63 ISBN 978-9951- 24-170-0

19. **L. Beshaj**, L. Cadri. "*Achievements of the Albanian Government in regards to the implementation of the SDG*", PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC CONFERENCE "CHALLENGES OF THE 17 SUSTAINABLE DEVELOPMENT GOALS" 20-21 September 2023, Tiranë, Albania. pp. 48- 58 ISBN 9789928474421

18. **L. Beshaj**, M. Zacellari "*Challenges of Albanian higher education in providing effective online learning in time of Covid-19 pandemic/ A case study based on the development of Cultural Studies in Business course*" PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC CONFERENCE "A NEW PERSPECTIVE FOR UNIVERSITIES IN EUROPE. THE ALBANIAN PROCESS 2020", 24-25 November 2020, Tirana, Albania. pp. 94- 101. ISBN 978-9928-4623-3-6

17. **L. Beshaj**, A. Ngjeliu, L. Çadri. "*Analysis of the Cultural Aspect in Business within Economics Study Programs at Albanian Universities*". PROCEEDINGS OF THE 2ND INTERNATIONAL SCIENTIFIC CONFERENCE ON "INTERNATIONAL CONFERENCE IN THE FIELD OF JUSTICE, ECONOMIC AND SOCIAL SCIENCES", 9-10 May 2019, Tirana, Albania. pp. 56–64. ISBN:978-9928-4356-7-5

16. **L. Beshaj**. '*Some factors hindering the teaching and the acquisition of the English language in higher education*". PROCEEDINGS OF THE 17TH SCIENTIFIC CONFERENCE "THE TEACHERS OF THE FUTURE", 24-27 May 2018, Budva, Montenegro. pp. 1463-1467 ISSN: 1857- 923X (Printed); ISSN2545-4439(Online).

15. **L. Beshaj**, A. Sherko. *Compound nouns in English and Albanian*, PROCEEDINGS OF THE 1ST ICELL INTERNATIONAL CONFERENCE ON ENGLISH LANGUAGE AND LITERATURE", November 21, 2015, Tirana, Albania. pp. 150–155; ISBN: 978-9928-4345-0-0.

14. **L. Beshaj**, S. Leka. "*The application of bilingual language acquisition strategies in Albania*". PROCEEDINGS OF THE INTERNATIONAL CONFERENCE, "1ST ICELL INTERNATIONAL CONFERENCE ON ENGLISH LANGUAGE AND LITERATURE", November 21, 2015, Tirana, Albania. pp. 268 - 275 ISBN: 978-9928-4345-00.

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13. **L. Beshaj**, I. Sedja. "*The significance of themes and motifs in Jane Eyre characterizing Victorian England as a feminist literary work*", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE, "1ST ICELL INTERNATIONAL CONFERENCE ON ENGLISH LANGUAGE AND LITERATURE", November 21, 2015, Tirana, Albania. pp. 175 - 180,ISBN: 978-9928-4345-0-0

12. **L. Beshaj**, A. Volumi. "*Complexities of black femme identity, articulated and delineated in "Sula" allures Albanian readers*". PROCEEDINGS OF THE INTERNATIONAL CONFERENCE, "1ST ICELL INTERNATIONAL CONFERENCE ON ENGLISH LANGUAGE AND LITERATURE", November 21, 2015, Tirana, Albania. pp. 276 – 282, ISBN: 978-9928-4345-0-0

11. **L. Beshaj**. "*Phraseological Units Formed with Metaphor and Their Stylistic Use*" PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC CONFERENCE "LINGUISTIC RESEARCH IV". 10 July 2015, Tirana, Albania. pp. 601 – 609.

10. **L. Beshaj. "***Private universities, a growing trend in the higher education system in Albania, aiming high standards in teaching and learning***".** PROCEEDINGS OF THE 7TH EUROPEAN CONFERENCE ON LANGUAGES, LITERATURE AND LINGUISTICS, 14 June 2015, Vienna, Austria**.** pp**.** 71-76. ISBN: 10 3-903063-53-3; ISBN: 13 978-3-903063-53-2

9. **L. Beshaj.** "*Teaching English for specific purpose to students of Tirana University in Albania*" PROCEEDINGS OF THE 8th INTERNATIONAL CONFERENCE ON EUROPEAN CONFERENCE ON LANGUAGES, LITERATURE AND LINGUISTICS", 3 September 2015, Vienna, Austria. pp. 8–13. ISBN- 10 3-903063-78-9; ISBN -13 978-3-903063-78-5.

8. **M. Shahini,** V. Memisha. *Parallels and distinctions in the affixation system, of words with negative meaning affixes in English and Albanian*. PROCEEDINGS OF THE INTERNATIONAL CONFERENCE "SCHOLARLY EXPLORATIONS OF ENGLISH LANGUAGE AND CULTURE". 30 - 31 May 2014, Tirana, Albania. pp.236-249. ISBN: 978-9928-4289-1-2

7. **M. Shahini**, V. Memisha. "*Dukuri të përkthimit të fjalëve me ndajshtesa me kuptim keqësues nga Anglishtja në Shqip*", PROCEEDINGS OF THE INTERNATIONAL SCIENTIFIC CONFERENCE "LINGUISTIC RESEARCH". Qendra e studimeve albanologjike, Instituti i gjuhësisë dhe i letërsisë. 31 Maj 2013 Tiranë, Albania. pp. 193-202, ISBN 978-9928-141-13-2

6. **M. Shahini**, V. Memisha, O. Xhina. "*Comparison of words with pejorative meaning from English to Albanian in Pavli Qesku's dictionary*". INTERNATIONAL CONFERENCES "CHALLENGES TO ENGLISH LANGUAGE STUDIES", June 2012 Tirana, Albania. pp.221-234. ISBN: 978-9928-07-164-4

5. **M. Shahini**, V. Memisha. *Linguistic Relativity Occurrences Between English and Albanian"*. PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE ON LANGUAGE, LITERATURE AND CULTURAL STUDIES "THE SAID AND THE UNSAID", 11-13 September 2010, Vlorë, Albania. pp. 358-367.

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4. **M. Shahini**. *Some Prefixation Issues in English and Albanian Languages*. PROCEEDINGS OF THE 10TH INTERNATIONAL LANGUAGE, LITERATURE AND STYLISTICS SYMPOSIUM, 3-5 November 2010, Ankara, Turkey. pp. 268-272. ISBN:978-975-507-249-4.

3. **M. Shahini**. *Prefixes with negative meaning in English language in comparison with their equivalents in Albanian language*. PROCEEDINGS OF THE 10TH INTERNATIONAL LANGUAGE, LITERATURE AND STYLISTICS SYMPOSIUM, 3-5 November 2010, Ankara, Turkey. pp. 263-267. ISBN:978-975-507-249-4

2. A. Trifoni, **M. Shahini**. "*Various ways of assessment and the way they integrate in the teaching process*". PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON EDUCATION, 8-10 July 2010, Samos Island, Greece. pp. 226-232, ISBN: 978-960-466-060-5. ISSN: 1790-3859.

1. **M. Shahini**, A. Trifoni. "*Various techniques of testing and their implementation in the English language acquisition process*". PROCEEDINGS OF THE The 6TH INTERNATIONAL CONFERENCE ON EDUCATION, 8-10 July 2010, Samos Island, Greece. pp. 341-348. ISBN: 978-960-466-060-5. ISSN: 1790-3859

MONOGRAFI/MONOGRAPHY

F. Vrapi. *Gjuha Angleze Teknike dhe Zbatime Praktike*, Shtepia Botuese "ENEAS", Tirane 2022. ISBN:978-9928-306-25-8

E. Stojani. "*Çështje të terminologjisë dhe ndikimi i italianizmave në fjalorin e inxhinierisë mekanike",* Tiranë 2024, ISBN: 9789928322883

L. Gjata, "*Teksti Argumentues* (*Analizë dhe përqasje në gjuhën shqipe dhe frënge*)", Shtëpia Botuese GEER Tiranë, 2010, ISBN 978-99956-88-24-0.

F. Gjata, **L. Gjata**, "*Etnografi e sportit*" (*shqipërim dhe përshtatje*), Shtëpia Botuese EMAL, 2017, ISBN 978-9928-04-386-3.

S. Vishkurti, *Përqasje ndërmjet reklamës mediatike në gjuhën frënge dhe asaj në gjuhën shqipe*, bot. "A&N",172 f. Tiranë 2014. ISBN: 978-9928-11-38-8

A. Avrami, "*Romantizmi german dhe ndikimi në letërsinë shqiptare*". WEST PRINT. Tirane 2024. ISBN: 978-9928-363-71-8.

BORDE EDITORIAL PERIODIKËSH SHKENCORE/ EDITORIAL BOARD PEER-REVIEW JOURNALS

E. Stojani

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Member of Editorial board of "JOURNAL OF INTEGRATED ENGINEERING AND APPLIED SCIENCES" (JIEAS); ISSN: 2960-2661.

M. Enesi

Member of Reviewers' board of ATHENS JOURNAL OF EDUCATION, ISSN: 2407-9898

Member of Reviewers' board of ATHENS JOURNAL OF SOCIAL SCIENCES, *e*-ISSN: 2241-7737

L. Beshaj

Member of Editorial board of PERIODIC SCIENTIFIC JOURNAL "WISDOM", (2016-2022), ISSN - 2410-8472.

V. Kanini

Member of Editorial board of "JOURNAL OF INTEGRATED ENGINEERING AND APPLIED SCIENCES" (JIEAS); ISSN: 2960-2661.

J. Bojaxhi

Member of Editorial board of "JOURNAL OF INTEGRATED ENGINEERING AND APPLIED SCIENCES" (JIEAS); ISSN: 2960-2661.

ANALIZA SHKENCORE / REVIEWING-REFERRING

F. Vrapi

Reviewer of BULLETIN OF TECHNICAL SCIENCES (PUT)

Reviewer of papers presented in THE 2nd INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED SCIENCE (ICEAS2017), 16-17 November, 2017, Tirana, Albania

English language editor for the book *"Heritage in the Ruins of the Abandoned Medieval Village of Tragjas"* by authors Prof. F. Nepravishta, L. Mezini, and A. Dollani.

English Language Editor of the MONTHLY CLIMATE BULLETIN, published by IGJEUM every month (March 2021).

Editor and Proofreader for the Albanian language in**:**

1. Compilation and publication of the Japanese-Albanian Dictionary in 2011-2012.
2. Compilation and publication of the Albanian Grammar Explanation for the Japanese Language Method: "*Japanese for All*" (Minna no Nihongo 1) in 2013-2014.
3. Compilation and publication of the Albanian Grammar Explanation for the Japanese Language Method: "*Japanese for All 2*" (Minna no Nihongo 2) in 2015-2016.

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4. Translation, compilation, and publication of the Hiragana and Katakana alphabet learning book in 2016-2017.

L. Gjata

Editor of the following scientific monographs and texts:

- F. Gjata, *Sociology of Sport 2*, EMAL Publishing House, 2010, ISBN 978-9928-04-167-8
- F. Gjata, *Sport and Religion (a sociological perspective)*, EMAL Publishing House, 2021, ISBN 978-9928-04-123-4
- F. Gjata, *Philosophy of Sport*, GEER Publishing House, 2010, ISBN 978-99956-88-87-5
- F. Gjata, *University Sport Facing the Challenges of Integration*, GEER Publishing House, 2011, ISBN 978-9928-105-84-4

L. Beshaj

Reviewer of the journals published by ATINER (*The Athens Institute (A World Association of Academics and Researchers)*.

M. Enesi

Reviewer of the JOURNAL OF EDUCATION AND SOCIAL RESEARCH; ISSN: 2671-3268.

Reviewer of paper presented in BARCELONA CONFERENCE ON EDUCATION (BCE 2022).

M. Plaku

Reviewer of the JOURNAL OF EDUCATION, SOCIETY AND BEHAVIOURAL SCIENCE

Reviewer of the ATHENS JOURNAL OF HUMANITIES & ARTS

S. Vishkurti

Editor in the compilation of linguistic dictionaries:

- Scientific editor for foreign languages: "*Dictionary of Terms in Library and Information Science*", (2018), Nermin Basha, Luljeta Doda Buza, Academy of Albanian Studies, Tirana, ISBN: 978-9928-289-01-8.
- "*French without Effort*", (2010), EUGEN Publishing House (co-editor for the French language), ISBN: 978-99927-54-42-7.
- "*Dictionary of Pathology Terms*", (2009), Institute of Linguistics (co-editor for foreign languages), A. Duro, SH. Subashi. ISBN: 978-99956-10-61-6, 631 pages.

PROJEKTE, TEMA STUDIMORE & AKTIVITETE TË TJERA KËRKIMORE-SHKENCORE/ RESEARCH-SCIENTIFIC PROJECTS, STUDY THESIS & OTHER ACTIVITIES

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- **F. Vrapi: Project Coordinator** for the Grant Project between PUT and the Japanese Government: "Support Programme for Organizations in Japanese-Language Education (Grants), Teaching Materials Purchase Grant" in:
  - Acceptance of Japanese Language Teaching Materials Grant in 2019-2020
  - Acceptance of Japanese Language Teaching Materials Grant in 2020-2021
  - Acceptance of Japanese Language Teaching Materials Grant in 2021-2022
- **F. Vrapi: Project Coordinator** for the Grant Project for the establishment of the Japanese Language Laboratory, funded by the Japanese Government (2018-2019).
- **E. Stojani: Project Leader** for the project: *"Improvement of Communication Skills through Learning Japanese Language"*, a project funded by the *Japan Foundation* under the call for Grants in the "Japanese Language Education Overseas" program. The project is developed for the academic year 2024-2025.
- **E. Stojani: Project Leader** for the project: *"Understanding Japanese Culture through Japanese Language Study"*, a project funded by the *Japan Foundation* under the call for Grants in the "Japanese Language Education Overseas" program. The project was developed for the academic year 2022-2023.
- **E. Stojani: Scientific Coordinator** for the project: *"Training on Project Pedagogy / Evolution of ICT Application in Foreign Language Teaching"*, a project funded by AUF (Agence Universitaire de la Francophonie). The project was won through international competition in the FORMATHECO call for *"Educational Innovation Training through ICT 2019"* for the Southeastern Europe axis. The project was developed for the academic year 2019-2020.
- **E. Stojani**: **Scientific Coordinator** for the project: *"Training of New Professionals for Better Integration into the Labor Market"*, within the framework of the 2017-2021 strategy of the Agence Universitaire de la Francophonie (AUF). The project was developed for the academic year 2018-2019.
- **E. Stojani: Training** in "*Enrichir les pratiques enseignantes grâce à l'utilisation de Laboratoires Multimédia Pédagogiques (LMP) avec intégration de l'IA*", organised by ESFAM (Ecole de Management de la Francophonie de Sofia, 9-11 December 2024.
- **L. Beshaj**: **Project Coordinator** for the Jean Monnet module on EU Multilingualism, Language Education, and Intercultural Dialogue (EUMLEID), REFERENCE NUMBER – 101047559, funded by the European Commission, European Education and Culture Executive Agency, from February 2022 to February 2025.
- **L. Beshaj**: **Project Director for Albania**: Proposal acronym: YouCOME, Proposal number: 101051853, funded by the European Commission, European Education and Culture Executive Agency, from February 2022 to March 2024.
- **L. Beshaj: Project Director** for: *Children's card to strengthen children's rights, R2-16*, funded by Save the Children/Terres des Hommes, from March 2017 to December 2017.
- **L. Beshaj: Project Director** for: *Sport as an integration instrument for Women*, funded by Tirana Municipality, from February 2018 to August 2018.
- **L. Beshaj**: **Project Director** for Albania: *Cultural Studies in Business*, Agreement n° 2018-1-IT02-KA203-048091, funded by the EU, ERASMUS+, from Jan. 2018 to February 2020.
- **L. Beshaj: Project Director** for: *Youth active in decision making*, funded by Tirana

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Municipality, from March 2019 to December 2019.

- **L. Beshaj**: **Project Director** for: *"Social inclusion Through the multi-functional center In Prrenjas, SADI HALILI" (SATI), CIG Z0F270E953 Prot. n. 904/2019*, funded by ICSE-Co. / ICSE&Co. (International Center for Southern Europe), from February 2019 to June 2019.
- **L. Beshaj: Project Director** for: *Safe and Healthy Children*, Agreement no. ALB2019/006, funded by UNDP, from June 2019 to July 2020.
- **L. Beshaj: Member** of the working group for the **"**Study on Youth Employment in the Western Balkans", April 2021.
- **R. Dida:**

1. Within the framework of the Japanese Project: Grant Program for Japanese Language Education Activities supported by the Japan Foundation

- **2024** - **Developer and coordinator** of the project *'Workshop Japanese Study Day II'*, October 2024
- **2022** - **Developer and coordinator** of the project *'Workshop Japanese Study Day I'*, October 2022
- **February 2021** - **Organizer** of the 2-day seminar "*Let's Learn Japanese*"
- **June 2019** - **Organizer** of the 3-day seminar "*Let's Learn Japanese*"
- **June 2018** - **Organizer** of the 3-day seminar "*Let's Learn Japanese*"
- **2016 – 2017** - **Developer and coordinator** of the project *'Translation, compilation, and publication of the Hiragana and Katakana teaching book "Kana Nyu Mon Shqip"*
- **2015 – 2016** - **Developer and coordinator** of the project *'Compilation and publication of the grammatical explanation in Albanian for the Japanese language method: "Japanese for All 2"*
- **2013 – 2014** - **Developer and coordinator** of the project *'Compilation and publication of the grammatical explanation in Albanian for the Japanese language method: "Japanese for All 1"*
- **2011 – 2012** - **Developer and coordinator** of the project *'Compilation and publication of the Japanese-Albanian Dictionary'*

2. Support Program for Organizations in Japanese-Language Education (Grants); Teaching Material Purchase Grant:

- **2021 – 2022** - **Developer and coordinator** of the project *'Acceptance of Japanese language teaching materials Grant'* supported by the Japan Foundation.
- **2020 – 2021** - **Developer and coordinator** of the project *'Acceptance of Japanese language teaching materials Grant'* supported by the Japan Foundation.
- **2019 – 2020** - **Developer and coordinator** of the project *'Acceptance of Japanese language teaching materials Grant'* supported by the Japan Foundation.

3. Assistance for Cultural Grassroots Projects of Japan

- **2018 – 2019** - **Developer and coordinator** of the Grant project for the establishment of the Japanese Language Laboratory, funded by the Japanese Embassy.

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- **V. Kanini**
  - ***Teaching mobility*** in University of Ruse, Bulgaria "Angel Kanchev" within the Erasmus+ Program of the European Union, under project of the University of Ruse with the National Erasmus+ agency of Bulgaria №2022-1-BG01-KA171-HED-000069917, according to the signed bilateral Erasmus agreement between University of Ruse and Polytechnic University of Tirana and according to the signed Mobility agreement between University of Ruse and the invited teacher. Period: 13/05/2024 - 17/05/2024.
  - ***Training Mobility*** of Individuals, Erasmus +KA107:ICM, Samsun, Turkey. Period: 08/05/2023-12/05/2023.
  - ***Team Leader*** of English-Speaking Examiners for all levels of English Language proficiency testing. This certification is accredited by Cambridge University Press and Assessment, in collaboration with the English Cultural Institute, Tirana, Albania.
- **J. Bojaxhi**
  - ***Speaking Examiner,*** Certification of the English Language Proficiency Exam for Levels A1-C2**,** Cambridge University Press and Assessment**.**
- **S. Vishkurti: Member of the Project:** *"La motivation dans l'enseignement et l'apprentissage du FLE"* (December 2013 - June 2014), CREFECO. Project leader: Ms. Esmeralda Kromidha, University of Tirana. Schools and universities in Albania, North Macedonia, and Armenia.
- **S. Vishkurti**: **Co-responsible** for the Polytechnic University of Tirana in the project *"Mutualisation des formations en FOS sur des réseaux universitaires (droit et économie)"* (2010 – 2013). Project leader – Ms. Eufrosinia Axenti. Leading university: State University of Moldova, Moldova. Partner universities: University of Tirana, Albania; Polytechnic University of Tirana, Albania; Paul-Valéry University (Montpellier III), France; Blaise Pascal University (Clermont-Ferrand II), France.
- **S. Shkurti**: **External expert** engaged by the Public Agency for Accreditation of Higher Education for the evaluation of new study programs (February 2009).
- **S*. Vishkurti:* Participant** in the second regional seminar on scientific research "*La motivation dans l'apprentissage et l'enseignement du FLE*", Focşani - Odobeşti (Romania). **(**October 2014).
- **S*. Vishkurti:* Participant** in the symposium on projects funded by the Agence Universitaire de la Francophonie "*Coopération universitaire multilatérale francophone en Europe Centrale et Orientale*", Teaching and Research on the French Language, Târgoviste, Romania (March 2013).
- **S. Vishkurti**: **Participant** in the Doctoral School 268 "*Langage et langues*", University of Sorbonne Nouvelle, Paris III, France (March 2013).
- **S. Vishkurti**: **Participant** in the roundtable "*La recherche didactique en Europe Centrale et Orientale*", Cluj-Napoca, Romania (December 2009).
- **S. Vishkurti**, **Trainer**: "Exploitation de l'image en cours de FLE," organized by the Agence Universitaire de la Francophonie (AUF) and the Faculty of Foreign Languages, University of Tirana, June 2016.
- **S. Vishkurti**, **Trainer**: "Communication et écrits professionnels dans l'entreprise," AUF, Campus Numérique de Tirana, University of Tirana, May 3-4, 2023.

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- A. Kisi, **S. Vishkurti, M. Plaku**, **Trainer**: "Maîtriser l'art de la vidéo: de la conception à la réalisation des capsules,"Campus Numérique de Tirana (AUF), University of Tirana, and Polytechnic University of Tirana, March 26-28, 2024.
- **A. Brahja:**
  - **Erasmus Teaching** Exchange between PUT and Orleans University, France, from February 26 to March 1, 2024, focused on teaching the English language.
  - **Erasmus Teaching** Exchange for the second-cycle Master of Science program at the Faculty of Civil Engineering, Department of Civil Engineering, for French students from ESTP, academic year 2023-2024, first semester (October 2023 - January 2024), focused on teaching English for specific purposes.
  - **Erasmus + KA107** for *training mobility* at Ondokuz Mayis University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Samsun, Turkey. May 08-12, 2023.
  - **Member** of the working group for "Japanese Language and Culture. Learning Japanese through Calligraphy." Polytechnic University of Tirana, 2016, Tirana, Albania.
  - **Member** of the working group for the presentation of the Japanese language and the methodology "Minna no Nihongo" – Japanese for Everyone. Polytechnic University of Tirana, 2014, Tirana, Albania.
  - **Trainer** at the 14th ELTA Albania International Conference "GLOBAL PERSPECTIVES ON ENGLISH LANGUAGE TEACHING." Tirana, Albania, May 10-11, 2024.
- **L. Gjata: Expert** in the Research Project Candidature "*French-Somali Bilingual Dictionary*"**,** requested by the Middle East Office of the Agence Universitaire de la Francophonie (AUF), September 2014.
- **V. Karapici**, Teachers Trainer and TOT, British Council Project: *"21st Century Schools', Critical Thinking and Problem Solving and Micro: Bit Implementation*, Tetor 2018- Qershor 2020.
- **V. Karapici,** L. Stefani Koordinatore e programeve të matures shtetërore e gjuhës angleze 2016-2027, gjuhës greke 2017-2018, MASR
- **V. Karapici,** L. Stefani: Koordinatore e programeve të provimeve të lirimit të gjuhës italiane 2016-2017, MASR

UDHËHEQJE DISERTACIONESH/ PhD DISSERTATIONS SUPERVISIONS

F. Vrapi

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1. *Scientific Supervisor* of the Doctorate titled "*Contemporary Developments in ESP (Study in Electronic Engineering).*" PhD student: Vanina Kanini (Bilimani), University of Tirana, 2015.
2. *Scientific Supervisor* of the Doctorate titled "*Anglicisms in the Formation of Terminology in Informatics and Electronics: (Case Study: Terminology in Computer Engineering and Electrical Engineering*)". PhD student: Jola Bojaxhi, University of Tirana, 2022.

L. Gjata

Scientific Supervisor of the Doctorate titled "*The Role of the Teacher in Teaching English for Specific Purposes (ESP) for Communication Purposes.*" PhD student: Adriana Thomollari, University of Tirana, 2015.

S. Vishkurti

1. *Scientific Supervisor* of the Doctorate titled "*Curriculum and Teaching/Learning Strategies for English Language at the Polytechnic University of Tirana.*" PhD student: Margarita Paci, University of Tirana, 2015.
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