

PROFIL ORGANIZACIONE JEDINICE FAKULTETA

1. OSNOVNI PODACI O ORGANIZACIONOJ JEDINICI

Fakultet: PRIRODNO-MATEMATIČKI FAKULTET

Adresa: Urfeta Vejzagića br. 4, 75000 Tuzla, Bosna i Hercegovina

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Opis djelatnosti:

Prirodno – matematički fakultet u Tuzli osnovan je 2002. godine Zakonom o izmjenama i dopunama Zakona o Univerzitetu u Tuzli, koji je donijela Skupština Tuzlanskog kantona (“Službene novine Tuzlanskog kantona”, broj 2/02). Međutim, studijske grupe prirodnih nauka i matematike osnovane su na Filozofskom fakultetu Univerziteta u Tuzli 1993. godine.

Fakultet je osnovan kao visokoškolska ustanova nastala izdvajanjem studijskih odsjeka prirodnih nauka i matematike iz sastava Filozofskog fakulteta u Tuzli. Odmah po osnivanju Fakultet je smješten u renoviranu zgradu bivšeg Đačkog doma “Enver Šiljak”, u ulici Urfeta Vejzagića br. 4.

Nastava na Fakultetu je organizovana za redovne studente i izvodi se u okviru studijskih odsjeka: Biologija, Fizika, Geografija, Hemija i Matematika. Prvi ciklus studija traje četiri godine i nakon diplomiranja stiče se stručni naziv Bachelor sa naznakom studijskog odsjeka i studijskog programa.

Uspostavom Evropskog sistema visokog obrazovanja, školske 2003/04. godine na Univerzitetu u Tuzli je uveden Evropski sistem prenosa bodova (ECTS), tako da je od te godine promijenjen nastavni plan i program studija, odnosno svi predmeti postaju jednosemestralni i svaki od predmeta nosi određen broj bodova (ECTS).

Obrazovna koncepcija Prirodno-matematičkog fakulteta u Tuzli, utemeljena na evropskim akademskim standardima, je da Fakultet predstavlja pedagošku i naučnoistraživačku instituciju, koja ima razvijene temeljne naučne discipline vezane za područje prirodnih nauka i matematike.

Planovi i programi dodiplomskog studija Prirodno-matematičkog fakulteta u Tuzli, po svojoj strukturi odgovaraju programima preporučenim Bolonjskom deklaracijom i slični su studijskim programima više uglednih univerziteta u zemljama Evropske unije. U tom smislu studijski program Prirodno-matematičkog fakulteta u Tuzli je kompatibilan sa evropskim visokoškolskim sistemima za školovanje kadrova iz područja prirodnih znanosti.

2. BROJ I ZVANJE ZAPOSLENIH

Ukupan broj zaposlenih: 94

Broj nastavnog osoblja: 57

Broj istraživača:

Broj tehničkog i administrativnog osoblja: 12

Najvažniji projekti organizacione jedinice

Naziv projekta	Period trajanja	Glavni partneri	Kratak opis ciljeva
Dani prirodnih nauka	Od 2014 -	FMON Univerzitet u Sarajevu Sveučilište u Mostaru	Glavni ciljevi ove manifestacije su promocija i popularizacija prirodnih nauka široj javnosti. Poticanje mladih istraživača (studenata prirodnih nauka) za razvoj kritičkog naučno-istraživačkog pristupa i njihovo osnaživanje za buduća zvanja. Očuvanje digniteta nastavničkih zvanja i isticanje značaja matematike, fizike, hemije i biologije kao temeljnih nauka u razvoju društva. Poseban značaj ovog skupa ogleda se u

			povezivanju i jačanju saradnje kao i boljem iskorištenju ljudskih i materijalnih resursa triju visokoškolskih institucija a samim tim i povećanju stepena jačanja međuinstitucionalne saradnje.
<i>"Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs (ECOBIAS)".</i> Broj projekta 609967-EPP-1-2019-1-RS-EPPKA2-CBHE-JP.	2020.- 2023.	UNIVERZITET U NOVOM SADU, UNIVERZITET U NIŠU, SVEUČILIŠTE U ZAGREBU, UNIVERSITAET DUISBURG-ESSEN, UNIVERZITET DONJA GORICA, SVEUČILIŠTE U MOSTARU, INTERNACIONALNI UNIVERZITET TRAVNIK,UNIVERZITET U TUZLI, UNIVERZITET U SARAJEVU, UNIVERZITET U BANJOJ LUCI, UNIVERZITET U ISTOČNOM SARAJEVU	Osnovni cilj projekta je bio akreditacija najmanje 26 master i 14 kurseva cjeloživotnog učenja iz oblasti ekološkog monitoringa površinskih voda, te nabavka naučno-istraživačke opreme usmjerene za ekološki monitoring voda, opremanje sedam laboratorija na Univerzitetima u Bosni i Hercegovini i Crnoj Gori i uspostavljanje regionalne "ECOBIAS" akademske mreže. Na Univerzitetu u Tuzli pokrenut i licenciran studijski program drugog ciklusa studija Ekomonitoring i bioindikacija voda i osavremenjena laboratorija za

			DNK metabarkodiranje i biološki monitoring voda.
<i>Unapređenje kvaliteta voda kroz istraživanje i mjere za upravljanje cvjetanjem mikroorganizama na akumulacijama Jablanica i Modrac u Federaciji BiH</i>	2025. - 2026.	RESOURCE ENVIRONMENTAL CENTER, Sarajevo	Projekt od značaja za Federaciju BiH, finansiran od strane Federalnog ministarstva okoliša i turizma. Projekt ima za cilj analizu stanja monitoringa voda i monitoringa aktivnosti za akumulaciju Modrac i Jablanica, s posebnim fokusom na otkrivanje konkretnih uzroka cvjetanja algi i cijanobakterija i donošenja preporuka za redukaciju pririsaka. Dodatno doprinosi unapređenju saradnje između institucija i naučnoistraživačkih organizacija i usklađivanju praksi u BiH sa evropskim standardima u oblasti zaštite okoliša.
<i>LeDNA - Global measure of biodiversity by sampling environmental DNA from lakes</i>	2024. - 2025.	ETH Cirihi	Projekt ima za cilj da istraži globalni diverzitet po osnovu okolišne DNK u 500 jezera uz pomoć naučnika iz 80 zemalja širom Zemlje. Ispred Bosne i Hercegovine je Prirodno-matematički fakultet u Tuzli implementator

			aktivnosti uzorkovanja okolišne DNK na dvije akumulacije: Modrac i Snježnica.

Ostali podaci od važnosti

Članstva u stručnim i naučnim udruženjima:

- Svi izabrani nastavnici i saradnici na odsjeku Hemija su članovi Udruženja hemičara Tuzlanskog kantona
- Svi izabrani nastavnici i asistenti na Odsjeku matematika su članovi Udruženja matematičara Tuzlanskog kantona
- Mehmed Nurkanović, Zehra Nurkanović, Mirela Garić-Demirović, Samra Moranjskić, Sabina Hrustić su članovi "International Society of Difference Equations - ISDE"
- Nastavnici i saradnici izabrani za užu naučnu oblast Genetika , biologija ćelije i mikrobiologija studijskog odsjeka biologija su članovi Udruženja genetičara u Bosni i Hercegovini GENuBiH

Naučni radovi i publikacije (najznačajnije)

1. Ibrišimović M.N. Ibrišimović M., Dedić J., Kesić A., Hodžić Z., Hadžigrahić N. – "Early detection of fungal pathogens in patients with immunodeficiency involving a novel biosensor technology", International Journal of Development Research (IJRD), ISSN:2230-9926, Vol.10, Issue 04, pp. 34939-34942, April 2020
2. Aldina Kesić, Stipe Čelan, Nadira Ibrišimović Mehmedinović, Almir Šestan: Optical activity, total phenolic content and color intensity of nectarian honey and honeydew. European Journal of Food Science and Technology. Vol.8, No.1, pp.12-33, February 2020. Published by ECRTD UK. Print ISSN: 2056-5798, Online ISSN: 2056-5801
3. Nadira Ibrišimović Mehmedinović, Aldina Kesić, Almir Šestan, Aida Crnkić, Mirza Ibrišimović. Biosensor Chip for Monitoring of Water Pollution as Novel Test Tool in Public Health: Proof of Principle International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958 (Online), Volume-10 Issue-5, June 2021
4. Almir Šestan, Dalila Ivanković, Aldina Kesić, Nadira Ibrišimović Mehmedinović i Benjamin Čatović: Anthropogenic influence on the degree of contamination by heavy metals of sediment river Spreča and selected International Journal of Engineering Science Invention. Volume 10, Issue 10 Series I, pp 30-36, October 2021. Print ISSN: 2319-6726, Online ISSN: 2319-6734

5. Aldina Kesić, Mersiha Hodžić, Nadira Ibrišimović Mehmedinović, Almir Šestan. Comparative analysis of milk samples from Bosnia and Herzegovina contaminated with aflatoxin M1. *European Journal of Food Science and Technology* Vol.9, No.3, pp.1-15, 2021 Print ISSN: ISSN 2056-5798(Print). Online ISSN: ISSN 2056-5801(online)
6. Stipe Čelan, Aldina Kesić, Nadira Ibrišimović Mehmedinović, Aida Crnkić, Almir Šestan: "Immunomodulatory ability of honey enriched with propolis". *European Journal of Food Science and Technology*. Rad objavljen 30.05.2022.g
7. Stipe Čelan, Aldina Kesić, Orjana Semren, Zora Pilić, Nadira Ibrišimović Mehmedinović. Učinak obogaćivanja meda propolisom na antioksidacijski kapacitet i sadržaj polifenola. Znanstveno-stručni skup 19th Ružička days "Today Science – Tomorrow Industry", Septembar 21-23 2022.g. Vukovar Croatia.
8. Benjamin Catovic, Almir Sestan, Aldina Kesic, Majda Srabovic, Melita Huremovic. Optimisation of potassium nitro humate synthesis from lignite. *International Journal of Engineering and Science Invention (IJESI)* ISSN (Online): 2319-6734, ISSN (Print): 2319-6726 www.ijesi.org. Volume 12 Issue 6 June 2023, PP 30-38 DOI: 10.35629/6734-12063038 www.ijesi.org
9. Almir Šestan, Dalila Ivanković, Aldina Kesić, Aida Crnkić, Nadira Ibrišimović Mehmedinović. Heavy Metals and Their Toxic Effect in the Water of the River Bregava, Bosnia and Herzegovina. *International Journal of Science and Engineering Invention (IJSEI)*, Volume 09, November 2023.
10. Majda Srabovic, Melita Huremovic, Benjamin Catovic, Samra Kulic, Aida Taletovic, Design synthesis and crystallization of acetaminophen, *Journal of Chemical, Biological and Physical Sciences*, section A: Chemical Sciences, 2017, vol 7, no 1 , pp 218-230. E-ISSN 2249-01929.
11. M.Huremovic, M.Srabovic, M.Salihovic; Inclusion Complex of Fexofenadine Hydrochloride with Cyclodextrins; *Mediterranean Journal of Chemistry* 2021,11(3), 282-289; DOI 10.13171/MIC02112181597
12. M.Salihovic, M.Pazalja, S.Spirtovic-Halilovic, E.Veljović, M.Huremović, M.Srabović; Micro-and Macroelements Content and Health Risk Assessment of *Morchella esculenta* and *Lactarius piperatus* from Bosnia and Herzegovina; *Kemija u Industriji* 71(7-8) (2022) 457-354 Web of Science
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14. M. Huremovic, E.Huseinovic, M.Srabovic, B.Ćatovic, E.Horozic; Solubilization of 2-Acetoxy-Nenzencarboxylic acid using Beta Cyclodextrins, *Open Journal of Applied Sciences*, 2023, 13, 1982-1995

15. Dedić J., Ibrišimović Mehmedinović N., Ibrišimović M., Kesić A., Huseinović E. (2025) The influence of β -lactam antibiotics on the excretion of aspartyl proteinase. Journal of Chemical, Biological and Physical Sciences, 15 (1) pp.024-032, doi: 10.24214/jcbps.B15.1.02432.
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18. Brkić, M., Bajrić, A., Skenderović, I., Hajdarević, E., Adrović, A. Assessment of water quality of the Gostelja River based on the composition of macrozoobenthos communities. Croatian Journal of Fisheries, 2025, 83, 93-98. DOI: 10.2478/cjf-2025-0010.
19. Avdić S, Bakrač A., Adrović A, Hajdarević E, Dekić R, Delić M. Seasonal variations of morphometric and hematological parameters in Dalmatian barbelgudgeon *Aulopyge huegelii* Heckel 1843 from Šatorsko Lake. Croatian Journal of Fisheries, 2023, 81, 159-166. DOI: 10.2478/cjf-2023- 0017. *Indeksacija: AGRICOLA (National Agricultural Library), Baidu Scholar, Cabell's Whitelist, CABI (over 50 subsections), CNKI Scholar (China National Knowledge Infrastructure), CNPIEC – cnpLINKer, Dimensions, DOAJ (Directory of Open Access Journals), EBSCO, ExLibris, Google Scholar, Hrcak, Japan Science and Technology Agency (JST), J-Gate, JournalTOCs, KESLI-NDSL (Korean National Discovery for Science Leaders), MyScienceWork, Naver Academic, Naviga (Softweco), Publons, QOAM (Quality Open Access Market), ReadCube, SCImago (SJR), SCOPUS, Semantic Scholar, TDNet, Ulrich's Periodicals Directory/ulrichsweb, WanFang Data, Web of Science - BIOSIS Previews, Web of Science - Zoological Record, WorldCat (OCLC), X-MOL.*
20. Skenderović I, Hajdarević E, Bajrić A, Avdić S. Review of Parasitic Nematodes of Fish from the Una River (Bosnia and Herzegovina). In: I. Karabegović et al. (Eds.). New Technologies, Development and Application VI. Volume 2. NT 2023. Lecture Notes in Networks and Systems 707, pp. 164-169, 2023. http://doi.org/10.1007/978-3-031-34721-4_18. Springer Nature Switzerland AG 2023. *Indeksacija: SCOPUS, SJR, SCImago Journal & Country Rank, Scopus Sources*
21. Skenderović I., Hajdarević E., Tanović E., Skenderović I. Cestode fauna – fish parasites of the Una River. 13th International Scientific Conference Science and Higher Education in Function of Sustainable Development – SED, 2023.
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Partnerstva i saradnja sa industrijom

Prirodno-matematički fakultet Univerziteta u Tuzli kontinuirano radi na jačanju veza sa domaćim i međunarodnim visokoškolskim institucijama, naučnoistraživačkim centrima i organizacijama. Kroz potpisane sporazume o saradnji omogućavamo razmjenu znanja, iskustava i resursa s ciljem unapređenja obrazovanja, nauke i stručne prakse.

Sporazumi obuhvataju različite oblike saradnje, uključujući: zajedničke naučnoistraživačke projekte, mobilnost nastavnog i istraživačkog osoblja, razmjenu studenata, organizaciju konferencija, seminara i radionica, saradnju u izradi studijskih programa i kurikuluma. Naš cilj je stvaranje otvorenog akademskog prostora u kojem se znanje dijeli, ideje razvijaju, a naučni rezultati doprinose razvoju društva.

U nastavku možete pronaći pregled najznačajnijih postignutih saradnji za period 2020-2025. su:

- HTEC doo kompanija za consulting, softversko inženjerstvo i razvoj digitalnih proizvoda;
- Sporazum o saradnji sa Pedagoškim zavodom TK
- Međunarodnog aerodroma Tuzla d.o.o.;
- Sporazum o akademskoj saradnji sa PMG Zagreb;
- Naučno istraživački institut RIS, Rakičan iz Slovenije;
- Sporazum o akademskoj saradnji sa PMF Sarajevo;
- Sporazum o saradnji između PMF-a i BKC Tuzlanskog kantona
- Sporazum o saradnji sa kompanijom P3 Diagnostic d.o.o
- Sporazum o saradnji sa Udruženjem za razvoj NERDA
- Sporazum o saradnji sa putničkom agencijom ROAD Lukavac
- Sporazum o saradnji sa putničkom agencijom Info Bosnia
- Sporazum o saradnji sa Centrom za kulturu Tuzla
- Ugovor sa Turističkim uredom Turističke zajednice Tuzla
- Memorandum o naučno-tehničkoj i poslovnoj saradnji Hidrocibale BH
- Sporazum o poslovno-tehničkoj saradnji Verlab
- Sporazum o saradnji sa PLAVA MEDICAL GROUP
- Sporazum o saradnji CISP
- Sporazum o saradnji MULTILAB

- Sporazum o saradnji sa Lukavac Cement d.o.o.
- Memorandum o naučno-tehničkoj i poslovnoj saradnji sa Zavodom za zaštitu i korištenje kulturno-historijskog i prirodnog naslijeđa Tuzlanskog kantona
- Sporazum o saradnji sa Fabrikom cementa Lukavac
- Sporazum o saradnju sa Veterinarskim zavodom Tuzla

Više na <http://pmf.untz.ba/sporazumi-o-saradnji>.

Dostupnost kapaciteta za nove projekte

Fakultet raspolaže značajnim ljudskim, infrastrukturnim i organizacijskim kapacitetima koji omogućavaju pokretanje i realizaciju novih projekata u nastavi, istraživanju i saradnji s privredom. Nastavno osoblje, asistenti i stručni saradnici posjeduju potrebne kompetencije i iskustvo za vođenje projekata različitih obima, dok postojeća administrativna struktura pruža adekvatnu podršku u finansijskom i operativnom upravljanju.

Infrastrukturno, fakultet ima funkcionalne učionice, laboratorije i kabinete koji se mogu prilagoditi potrebama novih projektnih aktivnosti. Pored toga, informatička oprema, specijalizirani softveri i pristup relevantnim digitalnim resursima omogućavaju efikasnu realizaciju istraživačkih i razvojnih zadataka.

Fakultet kontinuirano razvija saradnju s vanjskim partnerima – univerzitetima, privrednim subjektima i institucijama – što dodatno povećava dostupnost resursa i otvara mogućnosti za zajedničke projekte. Otvorenost za mobilnost, međunarodne programe i interdisciplinarne aktivnosti doprinosi većoj fleksibilnosti i spremnosti za preuzimanje novih inicijativa.

U cjelini, raspoloživi kapaciteti su dovoljni za pokretanje novih projekata, uz mogućnost njihovog daljeg jačanja kroz ciljane investicije, zapošljavanje kadra i modernizaciju opreme. Fakultet je spreman da kroz optimalno korištenje postojećih resursa i strateško planiranje uspješno realizira nove razvojne i istraživačke projekte.

Specifične reference i uspješne realizacije

Fakultet posjeduje bogatu tradiciju i prepoznatljive reference u nastavno-naučnom radu, istraživanju i saradnji s privredom. Dugogodišnje iskustvo u realizaciji akreditovanih studijskih programa, kontinuirano unapređenje kurikuluma i visoka uspješnost studenata na domaćim i međunarodnim takmičenjima predstavljaju temelje njegove reputacije.

U oblasti istraživanja, fakultet je uspješno realizirao više domaćih i međunarodnih projekata, uključujući programe bilateralne saradnje, projekte finansirane od resornih ministarstava, kao i primijenjena istraživanja u partnerstvu s industrijom. Ovi projekti rezultirali su objavljenim naučnim radovima u relevantnim časopisima, razvojem novih metoda i alata, te podizanjem istraživačkih kapaciteta fakulteta.

Posebno značajne reference čine uspješne saradnje s privrednim subjektima i institucijama kroz usluge, stručne analize, organizaciju obuka i razvoj specifičnih rješenja za potrebe

partnera. Fakultet je prepoznat kao pouzdan partner koji posjeduje stručnost, metodološku snagu i organizacionu odgovornost.

U okviru nastavne djelatnosti realizirani su brojni projekti sa studentima. Visoka zapošljivost diplomiranih studenata dodatno potvrđuje kvalitet obrazovnog procesa.

Kroz višegodišnje iskustvo, ostvarene rezultate i stabilnu mrežu partnerstava, fakultet gradi jasnu reputaciju institucije koja uspješno realizira kompleksne projekte i pruža stručnu podršku u različitim oblastima, te se time pozicionira kao važan akademski i razvojni akter u svojoj zajednici i šire.