



**Godišnje izvješće o nastavnom i znanstvenom radu na
Prirodoslovno-matematičkom fakultetu
u akad. god. 2014./2015.**

Ovo izvješće objedinjuje podatke o znanstvenoj i nastavnoj aktivnosti u akademskoj godini 2014./2015., znanstvenoj produkciji u 2015. godini i međunarodnoj suradnji tijekom 2014./2015. godine na Prirodoslovno-matematičkom fakultetu. Prikupljeni podaci poslužit će kao pokazatelj naših postignuća u protekloj akademskoj godini te kao indikator aktivnosti koje trebamo provestii kako bismo nastavili podizati kvalitetu nastavnog i znanstveno-istraživačkog rada na našem Fakultetu.

6. travnja 2016.

ORGANIZACIJA

PRIRODOSLOVNO-MATEMATIČKI FAKULTET obuhvaća sedam odsjeka:

1. **MATEMATIČKI ODSJEK**
2. **FIZIČKI ODSJEK**
3. **KEMIJSKI ODSJEK**
4. **BIOLOŠKI ODSJEK**
5. **GEOLOŠKI ODSJEK**
6. **GEOGRAFSKI ODSJEK**
7. **GEOFIZIČKI ODSJEK**

Fakultetom upravlja **DEKAN** i **FAKULTETSKO VIJEĆE**. Uz Dekana poslovima od posebne važnosti bave se prodekani (za nastavu, za financije, za znanost i doktorske studije, za izgradnju te za međunarodnu suradnju). Stručne poslove obavljaju dekanatske službe na čelu s glavnom tajnicom.

Odsjekom upravljaju **PROČELNIK**, **VIJEĆE ODSJEKA** i **ODSJEČKI KOLEGIJ**. Vijeće odsjeka čine svi redoviti profesori, izvanredni profesori i docenti, predstavnici nastavnika i suradnika izabranih u nastavna i suradnička zvanja te predstavnici studenata. U sastavu odsjeka djeluju zavodi, laboratoriji, knjižnice i grupe za znanstveno-istraživački rad.

Uredi za studente:

za **MATEMATIČKI ODSJEK**

Bijenička cesta 30 (tel.: 4680328 ili 4605703)
4877737)

e-mail: referada@math.hr

za **BIOLOŠKI ODSJEK**

Rooseveltov trg 6 (tel.:

e-mail: referada@biol.pmf.hr

za **FIZIČKI I GEOFIZIČKI ODSJEK**

Bijenička cesta 32 (tel.: 4680033 ili 4605518)
4895460)

e-mail: referada@phy.hr

za **GEOGRAFSKI ODSJEK**

Marulićev trg 19/II (tel.:

e-mail: referada@geog.pmf.hr

za **KEMIJSKI ODSJEK**

Horvatovac 102a (tel.: 4606035)

e-mail: referada@chem.pmf.hr

za **GEOLOŠKI ODSJEK**

Horvatovac 102a (tel.: 4606075)

e-mail: referada@geol.pmf.hr

UPRAVA

PRIRODOSLOVNO-MATEMATIČKI FAKULTET (PMF) - DEKANAT

URL= <http://www.pmf.unizg.hr>

Zagreb, Horvatovac 102a, tel.: 4606000, fax: 4606013

e-mail: dekanat@dekanat.pmf.hr

U akademskoj godini 2014./2015. Fakultet su vodili:

- Dekan: **prof. dr. sc. Zoran Curić**
- Prodekanica za nastavu: **prof. dr. sc. Aleksandra Čižmešija**
- Prodekan za financije: **prof. dr. sc. Darko Tibljaš**
- Prodekanica za znanost: **izv. prof. dr. sc. Dubravka Hranilović**
- Prodekanica za investicije i razvoj: **izv. prof. dr. sc. Sven Jelaska**
- Prodekan za međunarodnu suradnju: **izv. prof. dr. sc. Tomica Hrenar**
- Glavna tajnica: **Dijana Košak, dipl. iur.**

**NASTAVNA DJELATNOST NA
PRIRODOSLOVNO-MATEMATIČKOM FAKULTETU**

NASTAVA NA PRIRODOSLOVNO-MATEMATIČKOM FAKULTETU U AKADEMSKOJ GODINI 2014./2015.

U akad. godini **2014./2015.** na Prirodoslovno-matematičkom fakultetu izvodila se nastava prema tzv. bolonjskim programima, dok su istovremeno apsolvanti (upisani prije akad. godine 2005./2006.) završavali dodiplomske studije prema inženjerskim i profesorskim studijskim programima. Nastava se odvijala prema sljedećim preddiplomskim, diplomskim i integriranim preddiplomskim i diplomskim sveučilišnim studijskim programima:

PREDDIPLOMSKI SVEUČILIŠNI STUDIJI (3 GODINE, 180 ECTS BODOVA)	
MATEMATIČKI ODSJEK	preddiplomski sveučilišni studij Matematika
	preddiplomski sveučilišni studij Matematika; smjer: nastavnički
KEMIJSKI ODSJEK	preddiplomski sveučilišni studij Kemija
BIOLOŠKI ODSJEK	preddiplomski sveučilišni studij Biologija
	preddiplomski sveučilišni studij Molekularna biologija
	preddiplomski sveučilišni studij Znanosti o okolišu*
GEOLOŠKI ODSJEK	preddiplomski sveučilišni studij Geologija
GEOGRAFSKI ODSJEK	preddiplomski sveučilišni studij Geografija; smjer: istraživački
GEOFIZIČKI ODSJEK	preddiplomski sveučilišni studij Geofizika**
* zajednički studij Biološkog, Geološkog i Geografskog odsjeka	
** treća godina studija nastavlja se na prve dvije godine integriranog preddiplomskog i diplomskog sveučilišnog studija Fizika; smjer: istraživački	
DIPLOMSKI SVEUČILIŠNI STUDIJI (2 godine, 120 ECTS)	
MATEMATIČKI ODSJEK	diplomski sveučilišni studij Teorijska matematika
	diplomski sveučilišni studij Primijenjena matematika
	diplomski sveučilišni studij Matematička statistika
	diplomski sveučilišni studij Računarstvo i matematika
	diplomski sveučilišni studij Financijska i poslovna matematika
	diplomski sveučilišni studij Matematika; smjer: nastavnički
	diplomski sveučilišni studij Matematika i informatika; smjer: nastavnički
GEOFIZIČKI ODSJEK	diplomski sveučilišni studij Fizika - geofizika; smjerovi: Seizmologija i fizika čvrste Zemlje, Meteorologija i fizička oceanografija
KEMIJSKI ODSJEK	diplomski sveučilišni studij Kemija; smjer: istraživački
	diplomski sveučilišni studij Kemija; smjer: nastavnički
BIOLOŠKI ODSJEK	diplomski sveučilišni studij Eksperimentalna biologija
	diplomski sveučilišni studij Ekologija i zaštita prirode
	diplomski sveučilišni studij Molekularna biologija
	diplomski sveučilišni studij Znanosti o okolišu*
GEOLOŠKI ODSJEK	diplomski sveučilišni studij Geologija
	diplomski sveučilišni studij Geologija zaštite okoliša
GEOGRAFSKI ODSJEK	diplomski sveučilišni studij Geografija; smjer: nastavnički
	diplomski sveučilišni studij Geografija; smjerovi: Fizička geografija s geoekologijom, Prostorno planiranje i regionalni razvoj, Baština i turizam, Geografski informacijski sustavi
INTEGRIRANI PREDDIPLOMSKI I DIPLOMSKI SVEUČILIŠNI STUDIJI (5 godina, 300 ECTS)	
MATEMATIČKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Matematika i fizika; smjer: nastavnički

FIZIČKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Fizika; smjer: nastavnički
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i informatika; smjer: nastavnički
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i tehnika; smjer: nastavnički
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i kemija; smjer: nastavnički*
	integrirani preddiplomski i diplomski sveučilišni studij Fizika; smjer: istraživački
BIOLOŠKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Biologija i kemija; smjer: nastavnički*
GEOGRAFSKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Geografija i povijest; smjer: nastavnički**
* zajednički studij Fizičkog i Kemijskog odsjeka, odnosno Biološkog i Kemijskog odsjeka	
** zajednički studij s Filozofskim fakultetom	

Na navedene je sveučilišne studijske programe u akademskoj godini **2014./2015.** bilo upisano **3 975** studenata, a **909** studenata ih je završilo, i to kako slijedi po odsjecima i studijskim programima:

PREDDIPLOMSKI STUDIJI - BROJ STUDENATA PO GODINAMA (2014./2015.)

ODSJEK-SMJER-STUDIJ		GODINA			
		I	II	III	ZAVRŠILI STUDIJ
MATEMATIČKI ODSJEK	preddiplomski sveučilišni studij Matematika	287	168	135	118
	preddiplomski sveučilišni studij Matematika; smjer: nastavnički	144	152	138	72
KEMIJSKI ODSJEK	preddiplomski sveučilišni studij Kemija	123	81	63	40
BIOLOŠKI ODSJEK	preddiplomski sveučilišni studij Biologija	40	38	44	36
	preddiplomski sveučilišni studij Molekularna biologija	37	38	45	37
	preddiplomski sveučilišni studij Znanosti o okolišu	33	43	33	25
GEOLOŠKI ODSJEK	preddiplomski sveučilišni studij Geologija	49	45	47	32
GEOGRAFSKI ODSJEK	preddiplomski sveučilišni studij Geografija; smjer: istraživački	41	52	47	43
GEOFIZIČKI ODSJEK	preddiplomski sveučilišni studij Geofizika*	21	0	10	6
UKUPNO STUDENATA		775	617	562	409

* Od akad. godine 2014./2015. upis u prvu godinu preddiplomskog sveučilišnog studija Geofizika odvojen je od upisa u prvu godinu integriranog preddiplomskog i diplomskog sveučilišnog studija Fizika; smjer: istraživački.

INTEGRIRANI PREDDIPLOMSKI I DIPLOMSKI SVEUČILIŠNI STUDIJI - BROJ STUDENATA PO GODINAMA (2014./2015.)

ODSJEK	SMJER-STUDIJ					
MATEMATIČKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Matematika i fizika; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	30	15	22	9	10	7

ODSJEK	SMJER-STUDIJ					
FIZIČKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Fizika; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	30	16	23	20	9	6
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i informatika; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	34	22	9	16	15	4
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i tehnika; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	6	6	2	6	6	3
	integrirani preddiplomski i diplomski sveučilišni studij Fizika i kemija; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	6	4	5	7	2	0
	integrirani preddiplomski i diplomski sveučilišni studij Fizika; smjer: istraživački					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	68	77	43	35	19	13
BIOLOŠKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Biologija i kemija; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	36	45	22	21	37	22
GEOGRAFSKI ODSJEK	integrirani preddiplomski i diplomski sveučilišni studij Geografija i povijest; smjer: nastavnički					
godina studija	I	II	III	IV	V	DIPLOMIRALI
broj studenata	13	7	11	7	14	9
UKUPAN BROJ STUDENATA NA INTEGRIRANIM PREDDIPLOMSKIM I DIPLOMSKIM STUDIJIMA						
godina studija	I	II	III	IV	V	DIPLOMIRALI
UKUPNO	223	192	137	121	112	64

**DIPLOMSKI SVEUČILIŠNI STUDIJI - BROJ STUDENATA PO GODINAMA
(2014./2015.)**

ODSJEK-SMJER-STUDIJ		GODINA		
		I	II	DIPLOMIRALI
MATEMATIČKI ODSJEK	diplomski sveučilišni studij Teorijska matematika	24	19	16
	diplomski sveučilišni studij Primijenjena matematika	37	20	11
	diplomski sveučilišni studij Matematička statistika	36	35	27
	diplomski sveučilišni studij Računarstvo i matematika	49	42	22
	diplomski sveučilišni studij Financijska i poslovna matematika	32	34	23
	diplomski sveučilišni studij Matematika; smjer: nastavnički	87	66	55
	diplomski sveučilišni studij Matematika i informatika; smjer: nastavnički	22	14	9
KEMIJSKI ODSJEK	diplomski sveučilišni studij Kemija; smjer: istraživački	54	68	44
	diplomski sveučilišni studij Kemija; smjer: nastavnički	2	2	1

ODSJEK-SMJER-STUDIJ		GODINA		
		I	II	DIPLOMIRALI
BIOLOŠKI ODSJEK	diplomski sveučilišni studij Eksperimentalna biologija	39	64	32
	diplomski sveučilišni studij Ekologija i zaštita prirode	21	28	18
	diplomski sveučilišni studij Molekularna biologija	48	60	35
	diplomski sveučilišni studij Znanosti o okolišu	15	31	17
GEOLOŠKI ODSJEK	diplomski sveučilišni studij Geologija	17	21	17
	diplomski sveučilišni studij Geologija zaštite okoliša	14	11	10
GEOGRAFSKI ODSJEK	diplomski sveučilišni studij Geografija; smjer: nastavnički	13	25	18
	diplomski sveučilišni studij Geografija; smjerovi: Fizička geografija s geoekologijom, Prostorno planiranje i regionalni razvoj, Baština i turizam, Geografski informacijski sustavi	42	105	63
GEOFIZIČKI ODSJEK	diplomski sveučilišni studij Fizika - geofizika; smjerovi: Seizmologija i fizika čvrste Zemlje, Meteorologija i fizička oceanografija	15	24	18
UKUPNO STUDENATA		567	669	436

U akad. godini 2014./2015. Na PMF-u je studiralo **189** apsolvenata **dodiplomskih studijskih programa**, a **17** ih je **diplomiralo**.

DODIPLOMSKI STUDIJI - APSOLVENTI I STUDENTI S POLOŽENIM DIPLOMSKIM ISPITOM (2014./2015.)

ODSJEK-SMJER-STUDIJ		APSOLVENTI	DIPLOMIRALI
MATEMATIČKI ODSJEK	Diplomirani inženjer matematike, usmjerenje: Teorijska matematika	33	0
	Diplomirani inženjer matematike, usmjerenje: Primijenjena matematika		0
	Diplomirani inženjer matematike, usmjerenje: Matematička statistika i računarstvo		0
	Diplomirani inženjer matematike, usmjerenje: Računarstvo		1
	Diplomirani inženjer matematike, usmjerenje: Financijska i poslovna matematika		0
	Profesor matematike		0
	Profesor matematike i informatike		0
	Profesor matematike i fizike		0
	FIZIČKI ODSJEK		Profesor fizike
Profesor fizike i informatike		1	
Profesor fizike i tehnike s informatikom		0	
Diplomirani inženjer fizike		3	
Profesor fizike i kemije		0	
GEOFIZIČKI ODSJEK	Diplomirani inženjer fizike, usmjerenje Geofizika	0	0

ODSJEK-SMJER-STUDIJ		APSOLVENTI	DIPLOMIRALI
KEMIJSKI ODSJEK	Diplomirani inženjer kemije	13	0
	Profesor kemije		1
BIOLOŠKI ODSJEK	Profesor biologije	70	3
	Diplomirani inženjer biologije, usmjerenje: Ekologija		0
	Diplomirani inženjer biologije, usmjerenje: Molekularna biologija		1
	Profesor biologije i kemije		1
GEOLOŠKI ODSJEK	Diplomirani inženjer geologije, usmjerenje: Geologija i paleontologija	29	1
	Diplomirani inženjer geologije, usmjerenje: Mineralogija i petrologija		0
	Profesor geologije i geografije		2
GEOGRAFSKI ODSJEK	Profesor geografije	24	1
	Profesor geografije i povijesti		1
UKUPNO STUDENATA		189	17

U akad. godini 2014./2015. na Prirodoslovno-matematičkom fakultetu odvijala se i nastava na doktorskim studijima te na jednom specijalističkom poslijediplomskom studiju. Na 1., 2., odnosno 3. godinu **doktorskog studija** bilo je upisano ukupno **687 studenata**, dok su na specijalističkom studiju bila upisana **24 studenta**.

UKUPAN BROJ STUDENATA UPISANIH NA DOKTORSKE STUDIJE PMF-a (2014./2015.)

ODSJEK - STUDIJ	BROJ STUDENATA
MATEMATIČKI ODSJEK Zajednički sveučilišni poslijediplomski doktorski studij Matematika	64
FIZIČKI I GEOFIZIČKI ODSJEK Poslijediplomski sveučilišni studij Fizika; smjerovi: Fizika elementarnih čestica, Nuklearna fizika, Fizika kondenzirane materije, Atomska i molekularna fizika i astrofizika, Biofizika, Medicinska fizika, Geofizika	176
KEMIJSKI ODSJEK Poslijediplomski sveučilišni studij Kemija	136
BIOLOŠKI ODSJEK Poslijediplomski sveučilišni studij Biologija	220
GEOLOŠKI ODSJEK Poslijediplomski sveučilišni studij Geologija	25
GEOLOŠKI ODSJEK Poslijediplomski sveučilišni Interdisciplinarni doktorski studij iz oceanologije	32
GEOGRAFSKI ODSJEK Poslijediplomski sveučilišni studij Geografija	25
GEOGRAFSKI ODSJEK poslijediplomski sveučilišni studij Doktorski studij Geografije: prostor, regija, okoliš, pejzaž	9
UKUPNO	687

**BROJ STUDENATA UPISAN NA POSLIJEDIPLOMSKI SPECIJALISTIČKI
STUDIJ - STUDIJ AKTUARSKE MATEMATIKE (2014./2015.)**

ODSJEK	BROJ STUDENATA	ZAVRŠILI STUDIJ
MATEMATIČKI ODSJEK	24	2

U akademskoj godini 2014./2015. **129 studenata** obranilo je svoju **doktorsku disertaciju**. Sve disertacije obranjene su u okviru dokorskog studija.

BROJ OBRANJENIH DOKTORATA (2014./2015.)

ODSJEK - STUDIJ	BROJ DOKTORATA
MATEMATIČKI ODSJEK zajednički sveučilišni poslijediplomski doktorski studij Matematika	14
FIZIČKI I GEOFIZIČKI ODSJEK poslijediplomski sveučilišni studij Fizika; smjerovi: Fizika elementarnih čestica, Nuklearna fizika, Fizika kondenzirane materije, Atomska i molekularna fizika i astrofizika, Biofizika, Medicinska fizika, Geofizika	29
KEMIJSKI ODSJEK poslijediplomski sveučilišni studij Kemija	32
BIOLOŠKI ODSJEK poslijediplomski sveučilišni studij Biologija	38
GEOLOŠKI ODSJEK poslijediplomski sveučilišni studij Geologija	2
GEOLOŠKI ODSJEK poslijediplomski sveučilišni Interdisciplinarni doktorski studij iz oceanologije	10
GEOGRAFSKI ODSJEK poslijediplomski sveučilišni studij Geografija	4
UKUPNO	129

U akademskoj godini 2014./2015. na Sveučilištu u Zagrebu nastavljeno je financiranje nastavne djelatnosti na preddiplomskoj i diplomskoj razini putem Ugovora s Ministarstvom znanosti, obrazovanja i sporta o punoj subvenciji redovitih studenata u troškovima studija u akad. godinama 2012./2013., 2013./2014. i 2014./2015. (tzv. Programskog ugovora). U svrhu ostvarenja Programskim ugovorom postavljenih ciljeva:

Cilj 1. Stjecanje kvalifikacija kroz kraće vremensko razdoblje studiranja, a u skladu s trajanjem predviđenim studijskim programom

Cilj 2. Olakšavanje pristupa studiju podzastupljenim skupinama studenata

Cilj 3. Povećanje broja osoba sa završenim studijem u STEM području

Cilj 4. Studijski programi utemeljeni na principu ishoda učenja

Cilj 5. Povećanje utjecaja studentskih evaluacija nastavnika i nastave,

na PMF-u su provedene brojne aktivnosti popularizacije prirodoslovlja i matematike namijenjene učenicima osnovnih i srednjih škola te općoj javnosti, programi cjeloživotnog obrazovanja učitelja i nastavnika biologije, fizike, geografije, informatike, kemije i matematike, radionice unapređivanja nastavničkih kompetencija nastavnog osoblja PMF-a te tribine za studente.

**ZNANSTVENA DJELATNOST NA
PRIRODOSLOVNO-MATEMATIČKOM FAKULTETU**

Znanstveni projekti aktivni u akad. god. 2014./2015. – prema evidenciji u službama PMF-a

Znanstvena djelatnost na Prirodoslovno-matematičkom fakultetu se u akad. godini 2014./2015. odvijala u okviru **66** projekata financiranih iz nacionalnih izvora i **27** projekata financiranih iz međunarodnih izvora. Stručna djelatnost odvijala se u okviru **35** stručnih projekata.

Znanstveni i razvojni projekti financirani iz domaćih izvora

	Naziv projekta	Voditelj projekta	Izvor	Odsjek
1	Akrobacije molekularnih kristala za novu generaciju aktuatora	Željko Skoko	HRZZ	F
2	Algebraic and combinatorial methods in vertex algebra theory	Dražen Adamović	HRZZ	M
3	Automorphic forms, representations, and applications	Goran Muić	HRZZ	M
4	Bilateralna suradnja Hrvatske i Austrije: Čudni atraktori i inverzni limesi	Sonja Štimac	MZOS	M
5	Bilateralna suradnja Hrvatske i Crne Gore: Biološko i ekotoksikološko istraživanje obalnog područja Hrvatske i Crne Gore	Domagoj Đikić	MZOS	B
6	Bilateralna suradnja Hrvatske i Crne Gore: Višeskalne metode i varijacijski računi	Nenad Antičić	MZOS	M
7	Bilateralna suradnja Hrvatske i Francuske: Cogito	Andrej Dujella	MZOS	M
8	Bilateralna suradnja Hrvatske i Francuske: Cogito	Pavle Pandžić	MZOS	M
9	Bilateralna suradnja Hrvatske i Francuske: Cogito: Injektiranje, detekcija i manipulacija spina u dvodimenzionalnom elektronskom plinu u oksidnim heterostrukturama	Mario Baselić	MZOS	F
10	Bilateralna suradnja Hrvatske i Kine: Istraživačka suradnja na ekološkim tehnologijama monitoringa ekosustava svjetske prirodne baštine	Anđelka Plenković - Moraj	MZOS	B
11	Bilateralna suradnja Hrvatske i Kine: Univerzalni modeli strukture egzotičnih atomskih jezgara	Tamara Nikšić	MZOS	F
12	Bilateralna suradnja Hrvatske i Njemačke: Mikroskopski opis procesa slabe interakcije relevantnih za nukleosintezu teških elemenata	Tomislav Marketin	MZOS	F
13	Bilateralna suradnja Hrvatske i Njemačke: Nerazmjerna upravljivost parcijalnih diferencijalnih jednadžbi s lokaliziranim upravljanjem	Ivica Nakić	MZOS	M

14	Bilateralna suradnja Hrvatske i Njemačke: Phenolic derivatives in physcomitrella patensHedw.: profile, hormonal regulation and role in biotic stress	Rusak Grdana	MZOS	B
15	Bilateralna suradnja Hrvatske i Njemačke: The role of salicylic acid and auxins in defence responses of Brassica crop plants	Rusak Grdana	MZOS	B
16	Bilateralna suradnja Hrvatske i Njemačke: Uloga mehanizama popravka pogreške pri translaciji u ostvarivanju funkcionalnog proteoma bakterije Escherichia coli	Ita Gruić Sovulj	MZOS	K
17	Bilateralna suradnja Hrvatske i SAD-a: Ocjene greške aproksimacije metodom konačnih elemenata korištenjem tehnike pomoćnih potprostora	Luka Grubišić	MZOS	M
18	Bilateralna suradnja Hrvatske i Slovenije: Fizikalna istraživanja aktivnih i paleookolišni procesa u jamama Dinarskog krša	Dalibor Paar	MZOS	F
19	Bilateralna suradnja Hrvatske i Slovenije: Meka nanotehnologija: svojstva i primjena elektrolita	Davor Kovačević	MZOS	K
20	Bio-tracing Adriatic water masses (BIOTA)	Zrinka Ljubešić	HRZZ	B
21	Climate of the Adriatic Region in its global context (CARE)	Mirko Orlić	HRZZ	GF
22	Croatian Rural Areas: Scenario-based Approach to Discuss Planning and Development	Aleksandar Lukić	HRZZ	GG
23	Diophantine m-tuples, elliptic curves, Thue and indeks form equations	Andrej Dujella	HRZZ	M
24	Diracovi operatori i teorija reprezentacija	Pavle Pandžić	HRZZ	M
25	Diversity and interactions of chestnut- chestnut blight fungus and biocontrol agent- virus: implications on chestnut recovery	Mirna Ćurković Perica	HRZZ	B
26	Električno nabijanje međupovršina na granici čvrsta faza/vodena otopina elektrolita	Tajana Preočanin	HRZZ	K
27	Engineering crystalline materials using metal complexes and noncovalent interactions	Marijana Đaković	HRZZ	K
28	Epigenetic regulation of IgC glycosylation	Vlatka Zoldoš	HRZZ	K
29	Esencijalni metalni ioni u proteinima iz Heliobacter pylori i modelnim spojevima - struktura i funkcija/svojstvo	Dubravka Matković-Čalogović	HRZZ	K
30	Fitotoksičnost nanosrebra: mehanizmi akcije i interakcije u stanicama duhana	Biljana Balen	HRZZ	B

31	Flora Croatica baza podataka	Toni Nikolić	DZZP	B
32	Genska identifikacija hrvatskih autohtonih vrsta	Damjan Franjević	Zaklada Adris	B
33	Geometrijska, ergodička i topološka analiza niskodimenzionalnih dinamičkih sustava	Siniša Slijepčević	HRZZ	M
34	Gravity and parity violation	Maro Cvitan	HRZZ	F
35	High precision measurements of hadronic system properties and low energy QCD	Damir Bosnar	HRZZ	F
36	Istraživanje razvoja, diferencijacije i evolucije životinja kroz genomiku bazalnih metazoa	Kristian Vlahoviček	HRZZ	B
37	Komparativna i funkcionalna genomika fitoplazmi-emergentnih biljnih patogena u Hrvatskoj	Martina Šeruga Musić	HRZZ	B
38	Kredni geodinamski dokazi dokazi u području Dinarida i Panonskog bazena	Dražen Balen	HRZZ	GL
39	Local Probe and Mesoscopic Dynamics of New Phases in Strongly Correlated Electron Systems	Miroslav Požek	HRZZ	F
40	Mathematical modeling and numerical simulations of processes in thin or porous domains	Zlatko Drmač	HRZZ	M
41	Mathematical modelling, analysis and computing with applications to complex mechanical systems	Eduard Marušić-Paloka	HRZZ	M
42	Matrične faktorizacije i blok dijagonalizacijski algoritmi	Vjeran Hari	HRZZ	M
43	MIAU Matter and Interactions at Accelerators and in Universe	Krešimir Kumerički	HRZZ	F
44	Multiferoični i magnetoelektrični sustavi	Damir Pajić	HRZZ	F
45	Multifunctional complex metal tellurates: structure-property relationship study	Nositelj: IRB voditelj na PMF-u: Željko Skoko	UKF	F
46	Multimetrički sustav evaluacije krenobiocenoza	Sanja Gottstein	Fond za zaštitu okoliša i energetske učinkovitost	B
47	Non-canonical roles of aminoacyl-Trna SYNTHETASES	Ita Gruić Sovulj	HRZZ	B
48	Organic molecules in condensed phase: interactions and modeling	Hrvoj Vančik	HRZZ	K
49	Prirodno stanište klinički značajnih <i>Acinetobacter baumannii</i>	Jasna Hrenović	HRZZ	B

50	Proizvodnja specifičnih antitijela IgY peradi kao novog i jeftinijeg dijagnostičkog postupka za detekciju neoplastičnih oboljenja u pasa	Dubravko Pavoković	BICRO	B
51	Prostorni utjecaj postindustrijske i postsocijalističke prenamjene brownfield zemljišta na urbani razvoj. Komparativna analiza Beča i Zagreba	Jakovčić Martina	MZOS	GG
52	Pseudo-magnetic forces and fields for atoms and photons	Hrvoje Buljan	UKF	F
53	Razvoj supramolekulskih receptora kationa i aniona	Vladislav Tomišić	HRZZ	K
54	Sinteza, strukturna analiza i biološka evaulacija peptidomimetika i glikokonjugata	Srđanka Tomić-Pisarović	HRZZ	K
55	Stochastic Methods in Analytical and Applied Problems	Zoran Vondraček	HRZZ	M
56	Study of the momentum correlations in high energy collisions using event structure criteria and ALICE detector at LHC	Mirko Planinić	UKF	F
57	Sturktura i dinamika egzotičnih femto-sustava	Nils Paar	HRZZ	F
58	The effects of pollution on rapid evolution and ecological change in the Mediterranean mussel	voditelj: Patrik Nosil suvoditelj: Goran Klobučar	UKF	B
59	The orgin of amino acid specificity in editing class I aminoacyl-tRNA synthetases and cellučar requirements for proofreading	Ita Gruić Sovulj	UKF	K
60	The role of microtubule pivoting in formaion of complex structures such as microtubule bundles and mitotic spindles	Nenad Pavin	UKF	F
61	Tkivni inženjering koštanih presađaka upotrebom matičnih stanica i bioaktivnog nosača	Inga Marijanović	BICRO	B
62	Transport, magnetic and thermodynamic properties of selected inorganic and organic materials	Ivan Kokanović	HRZZ	F
63	Velebit od vrha do dna - multidisciplinarno istraživanje seizmoloških značajki i tektonike područja Velebita	Marijan Herak	HRZZ	GF
64	Weak convergence methods and applications	Nenad Antić	HRZZ	M
65	Zdrugorstvo i regionalni razvoj: komparativna analiza Francuske i Hrvatske	Aleksandar Lukić	MZOS	GG
66	Zvijezde i prašina: sturktura, sastav i interakcija	Krešimir Pavlovski	HRZZ	F

Znanstveni projekti financirani iz međunarodnih izvora

	Naziv projekta	Voditelj projekta	Izvor	Odsjek
1	A stochastic model eye lens growth with implications for cortical cataract formation	Hrvoje Šikić	FP7 Marie Curie/ Research Executive Agency	M
2	A stochastic model of eye lens growth with implications for cortical cataract formation - MoLeGro	Hrvoje Šikić	FP7 Marie Curie/ Research Executive Agency	M
3	AGN Feedback	Varnesa Smolčić	FP7 Marie Curie/ Research Executive Agency	F
4	Alge kremenjašice - deskriptor ekološkog stanja Plitvičkih jezera RH	Petar Žutinić	Europski socijalni fond	B
5	Analysis Software for Digitized Positron Annihilation Setups for Slow Positron Beam System	Damir Bosnar	International Atomic Energy Agency	F
6	Biološka aktivnost fitokemikalija biljne vrste Centaurea ragusina L. - BioFitoCen	Valerija Vujčić	Europski socijalni fond	B
7	Constraining Stellar Mass and Supermassive Black Hole Growth through Cosmic Times	Varnesa Smolčić	European Research Council	F
8	Diligent search for chemical bio-sources: Solvent-free homogenous and heterogenous oxidation processes catalyzed by polyoxometalates (PomFree)	Jana Pisk	NEWFELPRO	K
9	Dynamics of Henon and Lozi maps (HeLoMa)	Sonja Štimac	NEWFELPRO	M
10	Energy density functionals description of fission (FISSION)	Jie Zhao (mentor: Tamara Nikšić)	NEWFELPRO	F
11	Graphene based nonlinear quantum optics (GRANQO)	Marinko Jablan	NEWFELPRO	F
12	HOLISTIC_DNC_FB5	Marijan Herak	Dubrovačko neretvanska županija	GF
13	IBD-BIOM - Diagnostic and prognostic biomarkers for inflammatory bowel disease	Vlatka Zoldoš	Europska komisija	B
14	Improvements in the Harmonized Seismic Hazard Maps for the Western Balkan Countries	Snežana Markušić	NATO hazard II	GF
15	Lišajevi kao bioindikator zagađenja u okolišu - OkoLiš	Saša Likić	Europski socijalni fond	B
16	Micro-local defect functionals and applications (MiLDeFA)	Darko Mitrović (mentor: Nenad Antonić)	NEWFELPRO	M

17	Network for the exchange and transfer of innovative knowledge between European winegrowing regions to increase the productivity and the sustainability of the sector	Dijana Škorić	Institut Francais de la Vigne et du Vin	B
18	Next generation nuclear energy density functionals (NextG-DFT)	Vaia Prassa (mentor: Dario Vretenar)	NEWFELPRO	F
19	Projekt Kinetochore oscillation in mitotic metaphase	Nenad Pavin	Max Planck Institute of Molecular Cell Biology and Genetics	F
20	Quantum chromodynamics in accelerated frames (AQCD)	Sanjin Benić	NEWFELPRO	F
21	Razvoj nove metodologije za kontrolu procesa pripreme lijekova - Met4Pharm	Predrag Novak	Europski socijalni fond	K
22	Razvoj studija ekologije, računarstva i matematike uz primjenu Hrvatskoga kvalifikacijskoga okvira - EkoRaMa	Anđelka Plenković - Moraj i Aleksandra Čizmešija	Europski socijalni fond	B
23	Reference database for beta-delayed neutron emission evaluations	Tomislav Marketin	International Atomic Energy Agency	F
24	Relativistic Nuclear Energy Density Functional for Astrophysical Applications (AstroEDF)	Nils Paar	NEWFELPRO	F
25	Resilience of artificial gravel beach and implication for coastal management (RAGBICOM)	Kristina Pikelj	NEWFELPRO	GL
26	Specific Heat Capacity and Anisotropic Magnetic Properties of High Temperature Superconductors: YBa ₂ Cu ₃ O _{6+x} and Tl ₂ Ba ₂ CuO _{6+x} single crystals (CapMagHTS)	Ivan Kokanović	NEWFELPRO	F
27	Utjecan nanočestica srebra na proteom, sekretom i interaktom stanica duhana - NANO-PSI	Petra Peharec Štefanić	Europski socijalni fond	B

Stručni projekti

	Naziv projekta	Voditelj projekta	Odsjek
1	Biološka analiza obraštaja na platformama Ivana A, Ika A, Marica, Katarina, Annamaria A, i Ika B	Tatjana Bakran Petricioli	B
2	Biološka analiza obraštanja na platformi Izabela (kvantitativna i kvantitativna analiza) i stručno mišljenje	Tatjana Bakran - Petricioli	B

3	Biološka ispitivanja nadzemnih voda za HE Varaždin, HE Čakovec, i HE Dubrava u 2015. godini	Perica Mustafić	B
4	Instrumentalno seizmičko opažanje na lokaciji brane Ričice u 2014. godini	Ivo Allegretti	GF
5	Instrumentalno seizmičko opažanje na lokaciji brane Ričice u 2015. godini	Ivo Allegretti	GF
6	Invasive chestnut diseases - epidemiological research and management options	Mirna Ćurković Perica	B
7	Inventarizacija i uloga životinjske komponente u procesu taloženja sedre u Nacionalnom Parku Krka	Zlatko Mihaljević	B
8	Istraživački monitoring u stajaćicama i u vodama na područjima obuhvaćenima Projektima navodnjavanja i gospodarenja poljoprivrenim zemljištima i vodama	Perica Mustafić	B
9	Istraživanje i optimizacija ihtiocenoze u svrhu smanjenja trofije akumulacije Butoniga - 2015.	Perica Mustafić	B
10	Istraživanje i optimizacija ihtiocenoze u svrhu smanjenja trofije akumulacije Butoniga za 2014. godinu	Perica Mustafić	B
11	Izvođenje dijela projektnog zadatka <i>in vivo</i> studije	Domagoj Đikić	B
12	Izvođenje programa Monitoringa populacije invazivnog slatkovodnog obrubnjaka <i>Craspeda sowerbii</i> u NP "Krka"	Renata Matoničkin Kepčija	B
13	LC analize	Nives Galić	K
14	Monitoring koralja u nacionalnom parku Mljet	Petar Kružić	B
15	NATURA staništa u Botaničkom vrtu PMF-a: Rekonstrukcija prostora za uzgoj biljaka močvarnih i vodenih staništa	Sanja Kovačić	B
16	Obavljanje usluga instrumentalnih seizmoloških istraživanja na bloku B-18 u povijesnoj jezgri Dubrovnika	Ivo Allegretti	GF
17	Obavljanje usluga instrumentalnih seizmoloških istraživanja na bloku B-18 u povijesnoj jezgri Dubrovnika	Marijan Herak	GF
18	Ocjena biocidnih pripravaka za Ministarstvo zdravlja RH	Domagoj Đikić	B
19	Praćenje seizmičke aktivnosti u 2014. godini	Ivo Allegretti	GF
20	Praćenje seizmičke aktivnosti u 2015. godini	Ivo Allegretti	GF

21	Praćenje stanja okoliša - seizmološki monitoring	Ivo Allegretti	GF
22	Praćenje stanja u slatkovodnom ribarstvu u 2014. godini	Perica Mustafić	B
23	Praćenje stanja u slatkovodnom ribarstvu u 2015. godini	Perica Mustafić	B
24	Pretraživanje kristalnih formi djelatnih tvari	Dominik Cinčić	B
25	Provođenje monitoringa zaštićenih ugroženih vrsta i stanišnih tipova na području Dravakereštur II	Milorad Mrakovčić	B
26	Revizija ribolovno-gospodarske osnove	Davor Zanella	B
27	Revizija ribolovno-gospodarske osnove	Milorad Mrakovčić	B
28	Sinteza i fizikalno kemijska karakterizacija derivata aktivnih tvari	Vladislav Tomišić	B
29	Terensko istraživanje rasprostranjenosti šumske vegetacije Nacionalnog parka Krka	Sven Jelaska	B
30	Usluga uzorkovanja i ispitivanja riba u kopnenim i površinskim vodama u 2014. godini	Milorad Mrakovčić	B
31	Utjecaj okolišnih čimbenika na biocenoze jezera i sedrene barijere u Parku prirode Papuk	Maria Špoljar	B
32	Utjecaj temperaturnih promjena na naselja koralja u koraligesnoj zajednici na strmcima u Nacionalnom Parku Kornati	Petar Kružić	B
33	Utjecaj temperaturnih promjena na naselja koralja u koraligenskoj zajednici na strmcima u NP Kornati	Petar Kružić	B
34	Uzrokovanje i ispitivanje riba u kopnenim površinskim vodama u 2014. godini	Milorad Mrakovčić	B
35	Uzrokovanje odnosa između antropogenog opterećenja i modula opće degradacije prema makrozobenosu u vrlo velikim rijekama	Zlatko Mihaljević	B

ZNANSTVENA PRODUKTIVNOST DJELATNIKA PMF-a u 2015. GODINI
(prema podacima u bazi CROSB)

VRSTA PUBLIKACIJE	PMF							
		Biološki odsjek	Fizički odsjek	Geofizički odsjek	Geografski odsjek	Geološki odsjek	Kemijski odsjek	Matematički odsjek
Izvorni pregledni i znanstveni radovi u CC časopisima	328 *	71	128	15	7	7	51	55
Znanstveni radovi u drugim časopisima	72	30	3	5	10	8	2	14
Znanstveni radovi u zbornicima skupova s međunarodnom recenzijom	12	3	2	2	0	5	0	0
Sažeci kongresnih priopćenja u CC časopisima	26	1	8	0	0	3	14	0
Sažeci kongresnih priopćenja u ostalim časopisima	29	6	1	0	18	3	1	0
Sažeci u zbornicima skupova	438	141	36	34	39	73	95	20
Autorske knjige	10	5	0	0	2	1		2
Uredničke knjige	7	2	2	0	0	1	1	1
Poglavlja u knjizi	24	6	3	0	6	6	1	2
Udžbenici i skripta	2	0	0	0	1		1	
Doktorski radovi	75	5	20	4	3	12	27	4
Diplomski radovi	406	52	27	14	55	27	46	185
Druge vrste radova	48	5	9	8	2	1	5	18
UKUPNO	1149	327	239	82	143	147	244	301

* Koautori nekih radova su djelatnici dvaju Odsjeka

**POPIS IZVORNIH ZNANSTVENIH RADOVA DJELATNIKA PMF-a
U ČASOPISIMA CITIRANIM U BAZI CURRENT CONTENTS**

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**MEĐUNARODNA SURADNJA NA
PRIRODOSLOVNO-MATEMATIČKOM FAKULTETU**

Međunarodna suradnja Fakulteta se tijekom akademske godine 2014./2015. odvijala u okviru međusveučilišne suradnje, zajedničkih međunarodnih projekata te izravnim kontaktima nastavnika s inozemnim sveučilištima i istraživačkim ustanovama Europe i svijeta. Financiranje suradnje najvećim dijelom ostvarivalo se kroz posebnu međunarodnu suradnju Sveučilišta ili putem istraživačkih projekata. U okviru međunarodne suradnje Fakulteta osobito treba naglasiti znanstvenu suradnju i aktivno sudjelovanje na međunarodnim konferencijama. Osim razmjene nastavnika (gosti-predavači na preddiplomskoj, diplomskoj i doktorskoj razini), nastavljena je i mobilnost studenata - kako naših studenata na inozemnim sveučilištima, tako i stranih studenata na PMF-u putem različitih stipendija, programa i projekata. Značajna razmjena studenata i nastavnika odvijala se u okviru nekoliko mreža CEEPUS programa.

Tijekom akademske godine 2014./2015. djelatnici PMF-a ostvarili su ukupno 774 putovanja u inozemstvo (37 dogovora o suradnji, 72 gostovanja kao predavači, 286 izlaganja na konferencijama, 51 projektni sastanak, 215 znanstveni boravak, 57 stručnih boravaka i 56 ostalih putovanja). Na PMF-u je u isto vrijeme boravilo 118 inozemnih gostiju – znanstvenika i predavača, najviše kao gostujućih znanstvenika. Tijekom akademske godine 2014./2015., ukupno je 70 studenata PMF-a boravilo na inozemnim sveučilištima, najvećim dijelom zbog pohađanja nastave, doktorskog studija i istraživačkog rada, dok je na PMF-u boravilo 29 stranih studenata, i to u svrhu obavljanja stručne prakse i pohađanja nastave.

Nastavljene su i aktivnosti u sklopu Erasmus+ programa pri čemu je studentima PMF-a odobreno 35 stipendija za stručnu praksu i 23 za studijski boravak na stranim sveučilištima.

Dolazna mobilnost studenata je u sklopu Erasmusa i ostalih programa mobilnosti ostala na prošlogodišnjoj razini te je na Prirodoslovno-matematičkom fakultetu studijski boravak provelo 20 studenata. U sklopu Erasmus+ programa sklopljeno nekoliko novih bilateralnih ugovora.

PMF-u je pod voditeljstvom prof. dr. sc. Predraga Novaka odobren i prvi projekt iz sredstava Europskog fonda za regionalni razvoj pod nazivom „Razvoj nove metodologije za kontrolu procesa pripreme lijekova – Met4Pharm“. Također su odobreni i prvi projekti iz sredstava Europskog socijalnog fonda pri čemu posebno treba spomenuti projekt „Razvoj studija ekologije, računarstva i matematike uz primjenu hrvatskog kvalifikacijskog okvira – EKORAMA“. Nastavljene su aktivnosti u okviru ranije odobrenih FP7 projekata na kojima je je u prošloj ak. godini bilo zaposleno nekoliko stranih istraživača.

Tijekom akademske godine 2014./2015. godine potpisano je nekoliko novih bilateralnih i multilateralnih ugovora o suradnji, a u tijeku je i provedba nekoliko ranije ugovorenih multilateralnih projekata (npr. FP7, COST, NATO, itd). U tijeku su bili i pregovori oko potpisivanja prvih odobrenih HORIZON 2020 projekata.

Nastavnici i studenti Prirodoslovno-matematičkog fakulteta tijekom akad. godine 2014./2015. imali su i aktivnu međunarodnu suradnju. Podaci o sudjelovanju nastavnika i studenata na inozemnim sveučilištima prikazani su u sljedećoj tablici.

MEĐUNARODNA SURADNJA I MOBILNOST DJELATNIKA I STUDENATA PMF-a AKADEMSKE GODINE 2014./2015.								
PREMA EVIDENCIJI MEĐUNARODNE SURADNJE SVEUČILIŠTA U ZAGREBU	Dogovor o suradnji	Gost predavač	Konferencija/ seminar	Projektni sastanak	Znanstveni boravak	Stručni boravak	Ostala međunarodna suradnja djelatnika	studenti ukupno
Djelatnici i studenti PMF-a; inozemni boravci	37	72	286	51	215	57	56	70
Inozemni gosti PMF-a	2	28	17	6	60	1	4	29
Ukupno	39	100	303	57	265	58	60	99

