

Универзитет у Београду
Технички факултет у Бору
Број: VI/4-4-6
Бор, 27. 01. 2023. године

На основу чл. 49. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 26. 01. 2023. године, донело је

ОДЛУКУ

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2022. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2022. години, саставни је део ове одлуке.

Доставити:

- председнику Комисије
- продекану за НИР
- архиви
- сајт

ПРЕДСЕДНИК
НАСТАВНО-НАУЧНОГ ВЕЋА

Декан
Проф. др Дејан Таникић



Универзитет у Београду
ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ

Наставно-научном већу

На основу Члана 3. Правилника о вредновању резултата научног рада наставника и сарадника на Техничком факултету у Бору (у даљем тексту **Правилник**), број VI-4/19-4/2 од 27.05.2008. године, Комисија за обезбеђење и унапређење квалитета (у даљем тексту **Комисија**) спровела је поступак вредновања резултата научно-истраживачког рада и међународне сарадње наставника и сарадника, за 2022. годину. Након спроведеног поступка и обраде добијених резултата, Комисија у складу са Чланом 7. Правилника, Наставно-научном већу доставља следећи

ИЗВЕШТАЈ
О РЕЗУЛТАТИМА ВРЕДНОВАЊА НАУЧНОГ РАДА

1. ОПШТИ ДЕО

Поступак вредновања спровела је Радна група Комисије коју су чинили:

- Проф. Др Милан Радовановић, продекан за НИР и МС, руководилац
- Проф. Др Марија Панић, члан и
- Асис. Младен Радовановић

Вредновање резултата научног рада урађено је јануара месеца 2023. године, а односи се на претходну календарску годину, и њиме су били обухваћени сви наставници и сарадници који су у тој години били запослени на Факултету. У оквиру Комисије за обезбеђење и унапређење квалитета, продекан за научно-истраживачки рад и међународну сарадњу проф. др Милан Радовановић, прикупио је и обрадио потребне податке и сачинио **Годишњи извештај о резултатима оствареним у научно-истраживачком раду и међународној сарадњи за 2022. годину**, који је, као саставни део овог извештаја, дат у прилогу 1.

Вредновање се односило на следеће референце:

- 1.1. Публиковане монографије и друго (M13-M14)
- 1.2. Публиковани радови у међународним часописима са IF (M21-M23)
- 1.3. Публиковани радови у међународним часописима без IF (M24)
- 1.4. Саопштени радови на међународним скуповима (M31-M34)
- 1.5. Националне монографије (M42)
- 1.6. Публиковани радови у националним часописима (M51-M53)

- 1.7. Саопштени радови на националним скуповима (M63-M64)
- 1.8. Одбрањене докторске дисертације (M71)
- 1.9. Публиковани уџбеници
- 1.10. Цитираност у 2022.години (према SCOPUS-у)
- 1.11. Учешће на међународним пројектима
- 1.12. Учешће на пројектима које финансира МПНТР РС
- 1.13. Учешће на пројектима које финансира привреда
- 1.14. Организација научних скупова
- 1.15. Публиковање часописа

Комплетан материјал који се односи на ово вредновање предат је архиви Факултета, на даље чување.

2. ПОСЕБАН ДЕО

Након обраде података добијених у поступку вредновања збирни приказ резултата научног рада за 2022. годину, дат је у **табели 1**.

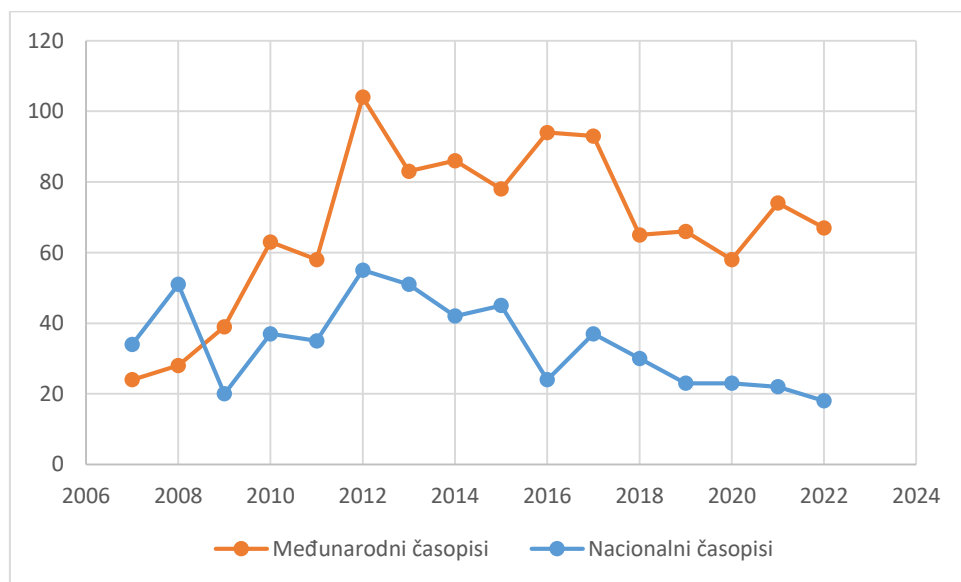
Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2022. год.

Тип резултата - категорија, према МПНТР РС	Број остварених резултата	УКУПНО
M11	1	M10 - 16
M13	1	
M14	13	
M18	1	
M21a + M21	4+8=12	M20 - 67
M22	16	
M23	28	
M24	9	
M29a		
M29b	1	
M29v	1	
M31	8	M30 - 96
M32	1	
M33	69	
M34	16	
M36	2	
M51	12	M50 - 18
M52	3	
M53	2	
M54	1	
M61	2	M61,63 - 6
M63	4	

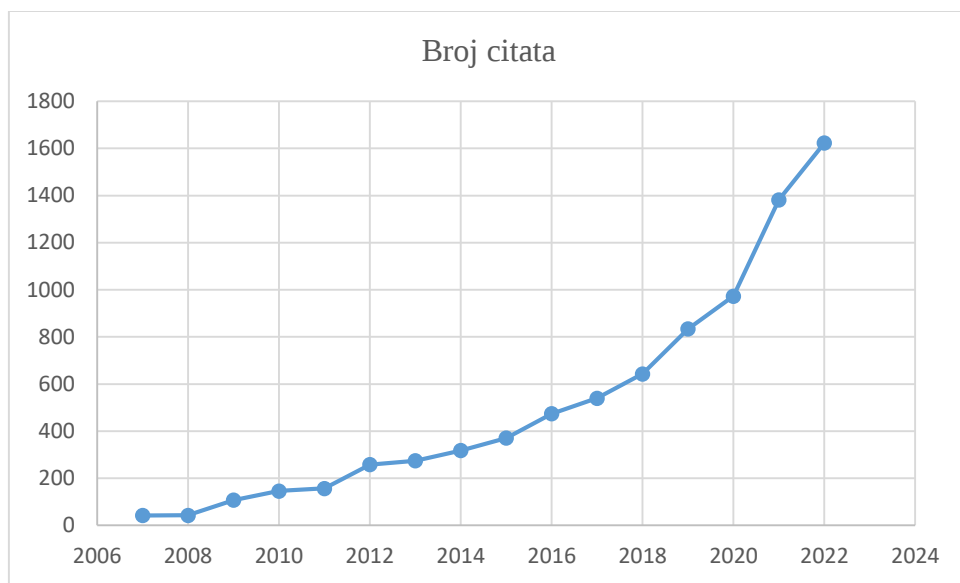
М64	4	М64 - 4
Уџбеници		1
Цитираност	424 рада цитирано 1623 пута	
Истраживачи ангажовани на пројектима финансираних од стране МПНТР РС	55+2	
Истраживачи ангажовани на домаћим пројектима Фонда за науку и/или Фонда за иновациону делатност	1	
Међународни пројекти	9	
Пројекти финансирани од стране привреде и остали пројекти	12	
Учешће у организацији нучних скупова	3 међународна научна скупа	
Публиковани часописи	4 научна часописа + 1 студентски часопис	

Упоређивање остварених резултата за 2022. годину са резултатима из претходних година извршено је табеларно и графички и то:

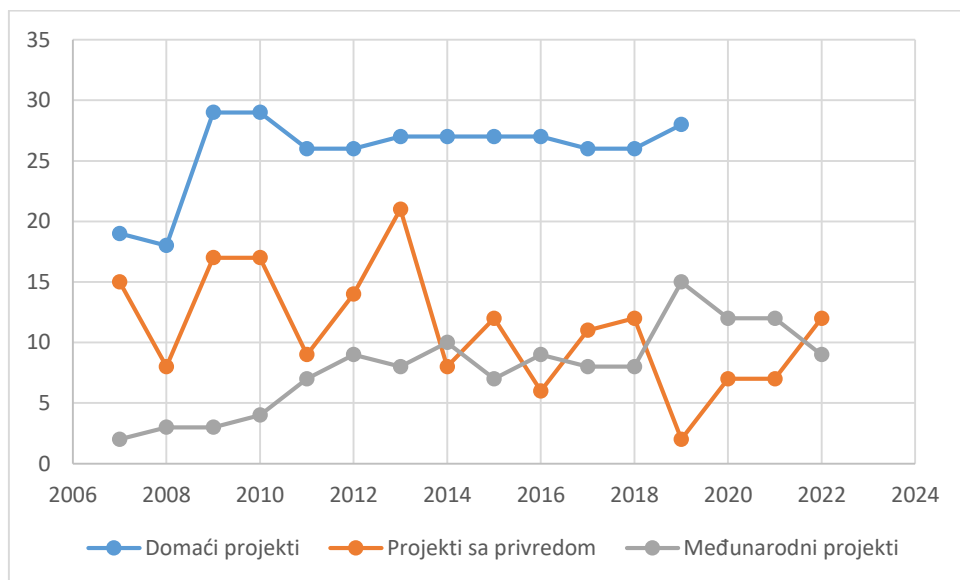
- Слика 1 – Преглед броја објављених радова групе резултата М20 и М50,
- Слика 2 – Преглед броја цитата у часописима са IF (JCR листа),
- Слика 3 – Преглед броја пројеката на нкојима су учествовали наставници и сарадници.



Слика 1. Преглед броја радова групе резултата М20 и М50 за период 2007 – 2022. год.



Слика 2. Преглед броја цитата у часописима са IF за период 2007 – 2022. год.



Слика 3. Преглед броја пројеката на којима су учествовали наставници и сарадници за период 2007 – 2022. год.

3. ЗАКЉУЧЦИ

Након спроведеног поступка вредновања и обраде добијених података, које су остварили наставници и сарадници у области научно-истраживачког рада и међународне сарадње у 2022. години, закључено је следеће:

1. Упоређењу са резултатима постигнутим у 2021. години, резултати постигнути у 2022. години слабији су у следећим категоријама:

М 20	за 7 референци	за 9 %
М 50	за 4 референце	за 18 %
М 60	за 9 референци	за 47 %
Уџбеници	1 у односу на 4 у 2021. години	
Међународни пројекти	9 у односу на 12 у 2021. години	за 25 %
Одбрађена докторска дисертација	2 у односу на 7 у 2021. години	

2. У поређењу са резултатима постигнутим у 2021. години, резултати постигнути у 2022. години бољи су у следећим категоријама:

М 30	за 13 референци	за 15 %
М 10	за 12 референци	за 33 %
Цитираност: број радова	за 54 рада	за 15 %
Број цитата	за 241 цитат	за 17 %
Пројекти са привредом	12 у односу на 7 у 2021. години	

3. У поређењу са резултатима постигнутим 2021. године, резултати постигнути у 2022. години остали су на истом нивоу у следећим категоријама:

Публиковање часописа
Организовање научних скупова

На основу укупних остварених резултата, може се закључити да су током 2022. године постигнути доста добри резултати, који су слабији у односу на 2021. годину. Запажен је мањи број радова публикованих у категорији М20, па би истраживачи са Техничког факултета у Бору требало да уложи још већи труд, како се овај силазни тренд не би наставио у наредној години. И даље је приметно опадање броја радова објављених у националним часописима, па треба активно порадити на охрабривању, првенствено млађих истраживача, да своје резултате публикују у часописима категорије М50.

Прилог: Годишњи извештај о резултатима НИР-а за 2022. годину

У Бору, јануар 2023. године

за Комисију председник

Проф. Др Марија Панић

Достављено:

1х Наставно-научном већу

1х Архиви Факултета

1х Архиви Комисије

Прилог 1

Годишњи извештај о резултатима оствареним у научно-истраживачком раду и међународној сарадњи за 2022. годину

Универзитет у Београду,
Технички факултет у Бору



**Годишњи извештај о резултатима
оствареним у научно-истраживачком
раду и међународној сарадњи за 2022.
годину**

Бор,
јануар 2023. године

ОСНОВНИ ПОДАЦИ

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2022. годину састоји се из следећих прилога:

- Списак референци наставника и сарадника са ТФ Бор, категорије од М10 до М90 (Прилог 1);
- Списак цитираних радова наставника и сарадника са ТФ Бор (Прилог 2) - Прилози 2.1, 2.2., 2.3 и 2.4, за четири одсека: Рударско инжењерство, Металуршко инжењерство, Технолошко инжењерство и Инжењерски менаџмент, редоследно;
- Списак домаћих пројеката и ангажовани наставници и сарадници са ТФ Бор (Прилог 3);
- Списак међународних пројеката на којима су укључени наставници и сарадници са ТФ Бор (Прилог 4);
- Списак пројеката остварених у сарадњи са привредом на којима су укључени наставници и сарадници са ТФ Бор (Прилог 5);
- Списак осталих активности факултета од значаја за НИР и МС (издавачка делатност, научни скупови, билатерална сарадња, промотивне активности, учешће на сајмовима, научна и стручна предавања и друге активности) (Прилог 6).

У складу са *Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача* (<http://www.mpn.gov.rs/wp-content/uploads/2017/03/Pravilnik-2017-preciscen-tekst.pdf>) извршена је класификација резултата научно-истраживачког рада које су остварили истраживачи запослени на Техничком факултету у Бору.

Увидом у резултате НИР-а на ТФ Бор, оствареним током 2021. године, који су представљени у прилозима може се закључити следеће:

1. Публиковане монографске студије и радови у међународним часописима, категорије М10+М20: 16+65=81 рад;
2. Објављени радови у националним часописима, категорије М50: 18 радова;
3. Објављени уџбеници: 1 уџбеник;
4. Саопштени радови на међународним (М30) и националним (М60) скуповима: 94+10=104 радова;
5. Ангажовање на пројектима:

- a. Истраживачи ангажовани по Уговору о реализацији и финансирању научноистраживачког рада НиО у 2022. години, код Министарства просвете науке и технолошког развоја Републике Србије: 55.
 - b. Истраживачи ангажовани на осталим домаћим пројектима: 3
 - c. Међународни пројекти: 9
 - d. Пројекти финансирани од стране привреде и остали пројекти: 12
6. Цитираност у 2021. години (SCOPUS резултати): 424 рада цитирано 1623 пута.

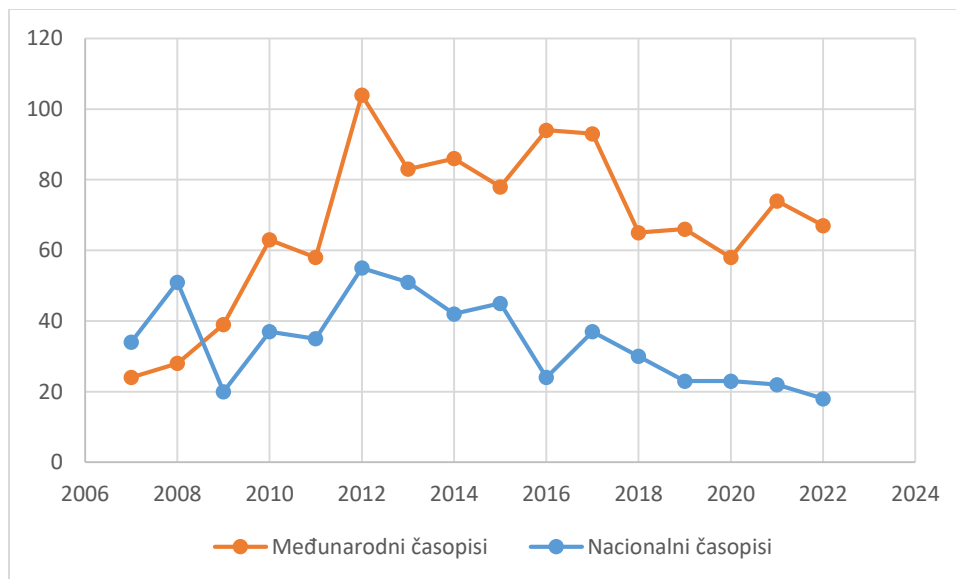
Збирни приказ резултата НИР-а за 2022. годину дат је у Табели 1.

Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2022. год.

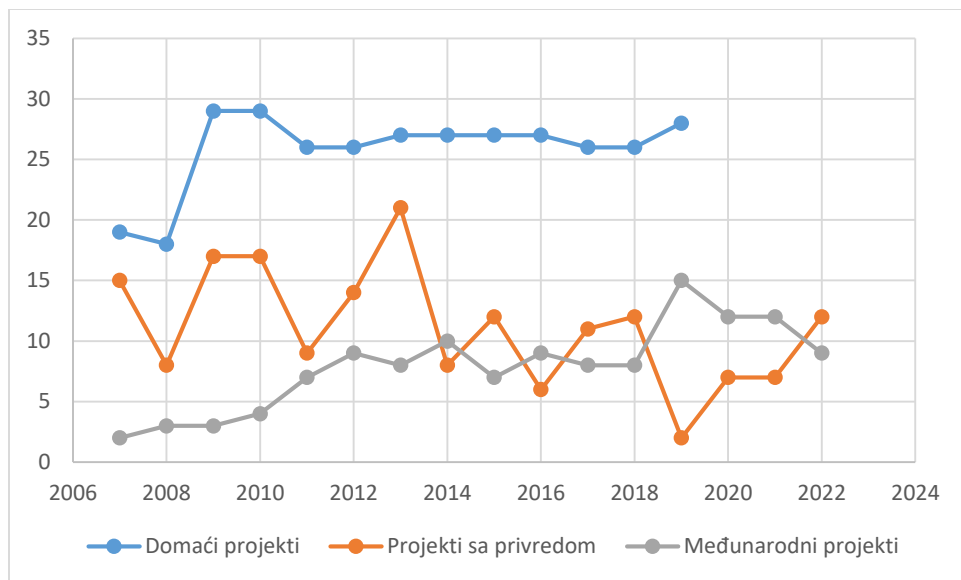
Тип резултата - категорија, према МПНТР РС	Број остварених резултата	УКУПНО
M11	1	M10 - 16
M13	1	
M14	13	
M18	1	
M21a + M21	4+8=12	M20 - 67
M22	16	
M23	28	
M24	9	
M29a		
M29b	1	
M29v	1	
M31	8	M30 - 96
M32	1	
M33	69	
M34	16	
M36	2	
M51	12	M50 - 18
M52	3	
M53	2	
M54	1	
M61	2	M61,63 - 6
M63	4	
M64	4	M64 - 4
Уџбеници		1
Цитираност	424 рада цитирано 1623 пута	

Истраживачи ангажовани на пројектима финансираних од стране МПНТР РС	55+2
Истраживачи ангажовани на домаћим пројектима Фонда за науку и/или Фонда за иновациону делатност	1
Међународни пројекти	9
Пројекти финансирани од стране привреде и остали пројекти	12
Учешће у организацији научних скупова	3 међународна научна скупа
Публиковани часописи	4 научна часописа + 1 студентски часопис

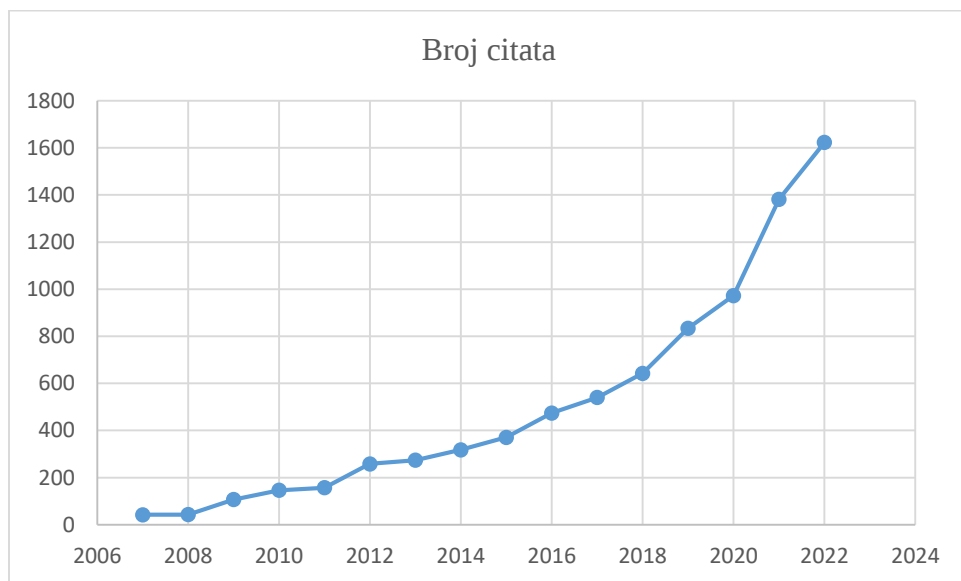
У наставку, на Сликама 1, 2 и 3, као у Табели 2, приказано је како се кретао број остварених резултата на ТФ у Бору у периоду од 2007. до 2022. године. У овом извештају упоређени су остварени резултати за 2022. годину са претходним, а посебно са оним за прошлу, 2021. годину.



Слика 1. Упоредни приказ броја радова објављених у међународним и домаћим часописима (М20 и М50) на ТФ Бор у периоду 2007 – 2022. год.



Слика 2. Упоредни приказ броја домаћих, међународних и пројеката са привредом реализованих на ТФ Бор у периоду 2007 – 2022. год.



Слика 3. Упоредни приказ броја цитата на ЈСР листи за ТФ Бор за период 2007 – 2022. год.

Имајући у виду резултате, остварене у оквиру научно-истраживачких активности на Техничком факултету у Бору, они се могу сматрати задовољавајућим у односу на актуелно стање у области просвете и науке. У односу на претходну годину приметан је одређени пад у броју публикованих радова у часописима категорије М20. Међутим, упоређујући постигнуте резултате у погледу објављених радова у

часописима категорије M20 у 2022. години са резултатима који су постигнути у претходно периоду (од 2018. године) приметно је да се број објављених радова у часописима категорије M20 налази у одређеним границама без неких израженијих одступања. Број публикованих радова у часописима категорије M20 у периоду од 2018. до 2022. године који су публиковали истраживачи са Техничког факултета у Бору је : 2022 – 67 радова, 2021 – 74 радова, 2020 – 58 радова, 2019 – 66 радова, 2018 – 65 радова. Посматрњем још дужег временског периода, од 2012. године, приметан је пад броја публикованих радова у часописима категорије M20 и то посебно у односу на период од 2012. до 2017. године. У том периоду број радова, који су објавили исзтраживачи са Техничког факултета у Бору, у међународним часописима категфорије M20 је био: 2012 – 97 радова, 2013 – 81 рад, 2014 – 83 рада, 2015 – 77 радова, 2016 – 76 радова, 2017 – 96 радова. Број радова, који су публиковани истраживачи са Техничког факултета у Бору, у домаћим часописима категорије M50 опада из године у годину: 2022 – 18 радова, 2021 – 22 рада, 2020 – 23 рада, 2019 – 23 рада, 2018 – 30 радова. Детаљније упоређујући резултате постигнуте по категоријама M21a, M21, M22 и M23 евидентно је да је у 2022. години дошло до пада броја публикованих радова у свим категоријама, изузев броја радова публикованих у часописима категорије M22. Међутим, уколико упоредимо постигнуте резултате по категоријама M21a, M21, M22 и M23 у периоду од 2018. године приметан је раст броја објављених радова у 2022. у свим категоријама сем у категорији M22. Посебно је важно даље радити на порасту броја објављених радова у часописима категорије M20, а нарочито у часописима категорија M21a и M21.

Табела 2. Упоредни приказа резултата категорија M21a, M21, M22 и M23 за период 2018 – 2022. година

Година	2018.	2019.	2020.	2021.	2022.
M21a	3	3	4	9	4
M21	6	8	4	18	8
M22	15	16	18	13	16
M23	24	21	18	32	28

У 2022. години је настављен дугогодишњи тренд пада броја објављених радова у домаћим часописима категорије M50, који је био краткотрајно прекинут у 2021. години. Приметно је да резултате својих истраживања у домаћим часописима објављује мали број наставника највиших звања. Млађи истраживачи периодично

објављују резултате својих истраживања у домаћим часописима категорије M50. Главни разлог је то што се они мање бодују према Правилнику о вредновању резултата научноистраживачког рада и сходно томе имају мали значај у избору у наставна звања на државним универзитетима. Радови у водећим националним часописима категорије M51, сврстани су у тзв. минималне критеријуме за избор у наставна звања, који се користе на државним универзитетима.

У току 2022. године настављена је пракса новог начина финансирања пројектних активности научно-истраживачких организација (НИО), започета 2020. године, од стране Министарства просвете, науке и технолошког развоја Републике Србије. Другим речима, у 2022. године финансирани су истраживачи на нивоу НИО – односно Факултета. Јануара 2022. године, потписан је Уговор о реализацији и финансирању научноистраживачког рада НИО у 2022. години са ресорним Министарством. Децембра 2022. године припремљен је извештај у којем су представљени остварени резултати истраживача са НИО, ангажованих на основу наведеног уговора са Министарством. Такође, припремљен је и план истраживања НИО за 2023. годину. Током 2022. године, на основу уговора потписаног са Министарством, на Факултету је било ангажовано 55 истраживача.

У оквиру пројекта *Composite clays as advanced materials in animal nutrition and biomedicine (AniNutBiomedCLAYs)*, који је одобрио Фонд за науку у оквиру програма ИДЕЈЕ, чија реализација је текла током 2022. године, као члан пројектног тима ангажована је проф. др Мира Цоцић, редовни професор Техничког факултета у Бору.

Током 2022. године свој рад је наставио Интердисциплинарни пројектни тим Техничког факултета у Бору. Ово тело је формирано 2020. године како би се повећало учешће истраживача са Техничког факултета у Бору у међународним пројектима и како би се унапредио заједнички рад на генерисању, селекцији, разradi и реализацији пројектних идеја. У 2022. години Интердисциплинарни пројектни тим је добио нови састав у циљу ефикаснијег рада у наредном периоду. Наведени тим се бави претраживањем отворених пројектних позива на којима Факултет може да учествује на различите начине: са новим пројектним идејама, припремом пројектних апликација, укључивањем студената у пројектне активности, као и организацијом допунских тренинга и едукација за припрему пројектних пријава. Учесће у активностима Интердисциплинарног пројектног тима је отворено за све наставнике и сараднике Техничког факултета у Бору. У наредном периоду је планирано још активније ангажовање тима у налажењу и планирању пројектних активности на Факултету.

Табела 2. Упоредни приказ резултата категорија М30, М60, М70 и М80 за период 2010 –2022

Година	2010.	2011.	2012.	2013.	2014.	2015.	2016.	2017.	2018.	2019.	2020.	2021.	2022.
Саопштења на међународним скуповима (М30)	107	179	161	174	165	191	158	175	120	120	85	80	94
Саопштења на домаћим скуповима (М60)	68	79	70	44	32	33	6	24	20	16	2	19	10
Одбрањене докторске дисертације (М70) (само запослени на ТФ Бор)	9	1	8	8 (3+5)	1	9 (1+8)	4	3	0	2	1	1	1
Техничко-развојна решења (М80)	6	2	8	9	4	6	0	0	0	0	0	0	1

У области сарадње са привредом, у 2022. години настављен је позитиван тренд у односу на претходне године. У 2019. години свега два (2) пројекта у сарадњи са привредом су остварена, у 2020. и 2021. било је седам (7) таквих пројеката. Током 2022. године наставници и сарадници са Техничког факултета у Бору учествовали су у реализацији дванаест (12) пројеката сарадње са привредом. Овакав тренд пораста броја пројеката сарадње са привредом је веома охрабрујућ и очекује се даљи раст броја ове врсте пројекта. Осетан пораст броја пројеката, који се остварују у сарадњи с привредом, делимично је последица појачаних улагања у индустријске активности компанија које послују у овом делу Србије. На Техничком факултету у Бору постоји Савет послодаваца Техничког факултета у Бору формиран 2020. године. Ово тело чине представници привреде, из поља научних и стручних области у којима Технички факултет у Бору има акредитоване студијске програме, као и представници послодаваца који су заинтересовани за запошљавање кадра који се школује на Факултету. Уз помоћ наведеног тела, постоји могућност даљег пораста броја пројеката по основу сарадње са привредом у наредном периоду.

Наставници и сарадници са Техничког факултета у Бору, у 2022. години су учествовали у реализацији 9 међународних истраживачких пројеката као и у пројектима међународне мобилности наставника, студената и ненаставног особља.

Током 2022. године дошло је до пораста броја саопштења на домаћим и страним скуповима у односу на 2020. и 2021. годину. Међутим, број саопштења је још увек мањи у односу на број саопштења који су остварени у годинама пре пандемије. Број објављених резултата на научним скуповима категорије М30 кретао се на следећи начин: 2012 – 161 саопштење, 2013 – 174 саопштења, 2014 – 165 саопштења, 2015 – 191 саопштење, 2016 – 158 саопштења, 2017 – 175 саопштења, 2018 – 120 саопштења, 2019 – 120 саопштења, 2020 – 85 саопштења, 2021 – 83 саопштења, 2022 – 96 саопштења. Значајан пад је уочен и у броју саопштења на домаћим научним скуповима категорије М60. Број саопштења на домаћим научним скуповима: 2012 – 70 саопштења, 2013 – 44 саопштења, 2014 – 32 саопштења, 2015 – 33 саопштења, 2016 – 6 саопштења, 2017 – 24 саопштења, 2018 – 20 саопштења, 2019 – 16 саопштења, 2020 – 2 саопштења, 2021 – 18 саопштења и 2022 – 10 саопштења. У наредном периоду се очекује да се број саопштења на домаћим конференцијама неће повећавати због незнатног вредновања резултата ове врсте код избора за наставна и истраживачка звања, као и због све учесталијег прерастања националних у интернационалне конференције.

Током 2022. године, остварен је пораст цитираности радова наставника и сарадника Техничког факултета у Бору у односу на претходне године. Тиме је настављен тренд повећања броја цитираних радова, као и укупног броја цитата на ЈСР листи (Слика 3). Број цитираних радова, чији су аутори наставници и

сарадници на Техничком факултету у Бору, кретао се на следећи начин: 111 радова цитираних 258 пута (2012), 112 радова цитираних 274 пута (2013), 145 радова цитираних 318 пута (2014), 157 радова цитираних 371 пут (2015), 202 рада цитираних 474 пута (2016), 221 рад цитиран 540 пута (2017), 222 рада цитираних 643 пута (2018), 281 рада цитираних 834 пута (2019), 94 рада је цитирано 973 пута (2020), 370 радова је цитирано 1382 пута (2021). Током 2022. године остварена је рекордна цитираност: 424 рада је цитирано 1623 пута. По студијским програмима остварена је следећа цитираност у 2022. години: одсек за рударско инжењерство – 71 рад је цитиран 237 пута; одсек за металуршко инжењерство – 80 радова је цитирано 199 пута; одсек за технолошко инжењерство – 101 рад је цитиран 502 пута; одсек за инжењерски менаџмент – 172 рада је цитирано 685 пута. Високој цитираности посебно доприносе неколико наставника који остварују на десетине, па и стотине цитата (проф. др. Драгиша Станујкић, проф. др Марија Петровић Михајловић, проф. др Драган Манасијевић, проф. др Ђорђе Николић, проф. др Снежана Милић и други). Иако је укупни број публикованих радова мањи него у претходном периоду, очигледно је да расте њихова видљивост и прихватање у научној заједници, који доводе до повећања броја цитата. Постигнуту високу цитираност могуће је објаснити и повећањем удела објављених радова у најпрестижнијим часописима, категорије M21a и M21, као и кумулативним ефектом, односно протоком времена, чиме се повећавају изгледи да раније објављени радови постигну високу цитираност.

Радови категорије M21a, M21, M22 и M23, које су током 2022. године објавили наставници и сарадници на Техничком факултету у Бору, припадају следећим научним областима: *Metallurgy & Metallurgical Engineering; Operations Research, Productio optimization, Safety Science, Management Science, Decision Science, CSR; Mining and Mining Science; Information Technology, Machine Learning, Computer Science, Information Systems; Engineering Civil; Economics, Chemistry and Chemical Engineering, Environmental Studies, Environmental Sciences, Ecology; Mathematics, Mathematics Applied.*

Током 2022. године, на Техничком факултету у Бору штампан је приближно исти број уџбеничке литературе као и ранијих година а ситуација је идентична као и претходне године и када је у питању издавање часописа. Факултет је, у складу са дугогодишњом традицијом, наставио да издаје своја четири научна часописа:

- *Journal of Mining and Metallurgy, Section A: Mining (JMM-A),*
- *Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B),*
- *Serbian Journal of Management (SJM)* и
- *Recycling and Sustainable Development (RSD).*

Од 2016. године Технички факултет у Бору издаје и први студентски часопис *Engineering Management*. Током 2022. године, и овај часопис је редовно публикован, према планираној динамици.

Током протекле године Технички факултет у Бору је учествовао у организацији три научна скупа:

- 53rd International October Conference on Mining and Metallurgy – IOC 2022, Бор, 3 – 5. октобар 2022.
- 18th International May Conference on Strategic Management – IMCSM22, Бор, 27 – 29. мај 2022.
- 29th International Conference Ecological Truth and Environmental Research - EcoTER'22, Сокобања, 21 – 24. јун 2022.

У оквиру симпозијума ИМКСМ 2022 организован је студентски симпозијум: 17. Студентски симпозијум о стратегијском менаџменту. У оквиру скупа EcoTER'22 организована је студентска секција.

Током 2022. године настављена је сарадња са многобројним организацијама из земље и иностранства. Потписани су многи билатерални споразуми и уговори о пословно-техничкој сарадњи са релевантним високошколским организацијама, научним институтима и другим установама из сродних области из Србије и иностранства.

Такође, током 2022. године, настављене су и активности у оквиру академских мрежа у којима је Технички факултет у Бору активан партнер: MET-NET мрежа, CESAER мрежа, Resita Network, EURAXESS мрежа, Српска национална мрежа технолошких брокера. Кроз међународне пројекте, студијске боравке наших истраживача у иностранству, посете страних делегација, сарадње код публикације часописа и скупове које Факултет организује, остварени су даљи значајни контакти са академским и научним институцијама, са циљем развоја даљих активности у смислу будућих пројектних апликација и међународне размене студената и наставног особља.

Током 2022. године, тимови за маркетинг и промоцију Факултета су у 2022. години имали појачане активности у односу на претходне године. Тим за промоцију Факултета је у првој трећини године организовао промоцију Факултета кроз посете свим средњим школама у Бору и бројним средњим школама у ширем региону. Промоција је реализована и путем интернета, друштвених мрежа, штампаних и електронских медија.

На основу свега наведеног може се закључити да су резултати у области научно-истраживачког рада и међународне сарадње на Техничком факултету у

Бору, Универзитета у Београду, током 2022. године били задовољавајући, али да свакако треба радити на томе да они у предстојећем периоду буду још бољи.

У Бору, јануар 2022. године

Подносилац извештаја

Проф. др Милан Радовановић

Продекан за НИР и МС ТФ Бор

Прилог 1.

**ПРЕГЛЕД РЕЗУЛТАТА НИР-А КОЈЕ СУ ОСТВАРИЛИ НАСТАВНИЦИ И САРАДНИЦИ
ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ У 2021. ГОДИНИ**

Tip rezultata/kategorija prema MPNTR RS	Broj ostvarenih rezultata
M11	1
M13	1
M14	13
M18	1
M21a	4
M21	8
M22	16
M23	28
M24	9
M29b	1
M29v	1
M31	8
M32	1
M33	69
M34	16
M36	2

M42	2
M45	1
M49	1
M51	12
M52	3
M53	2
M54	1
M61	2
M63	4
M64	4
M70	1
M85	1
TF10	1
TFP1	2
TFP2	8
TFP3	12

Остварени резултати НИР-а у 2022. години

М11 – 1

1. Z. Stević: Arduino mikrontrolerska ploča i Raspberry PI-Arduino mikrokontrolerska ploča za Tuna Icon doo, 2022

M13 – 1

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M14 – 13

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Прилог 2.

ПРЕГЛЕД ЦИТИРАНОСТИ ИСТРАЖИВАЧА СА ТФ У БОРУ У 2022. ГОДИНИ.

Цитираност је у овом извештаја приказана за сваки одсек понаособ, почев од рударског и металуршког инжењерства, преко технолошког инжењерства, до инжењерског менаџмента; прилози 2.1, 2.2, 2.3 и 2.4, редоследно.

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**СПИСАК ИСТРАЖИВАЧА СА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ
АНГАЖИВАНИХ НА ДОМАЋИМ ПРОЈЕКТИМА 2021. ГОДИНЕ**

**Пројектне активности које је финансирао Министарство просвете, науке и
технолошког развоја Републике Србије:**

У току 2022. године Министарство просвете, науке и технолошког развоја наставило је са праксом институционалног финансирања научноистраживачког рада. Ангажовање истраживача се тиме изражава у оквиру Научноистраживачке организације (НИО), односно на нивоу Техничког факултета у Бору, а у складу са Уговором о реализацији и финансирању научноистраживачког рада НИО у 2022. години (бр. 451-03-68/2022-14/200131).

У наставку извештаја је приложен списак истраживача који су у току 2022. године били ангажовани на пројектним активностима које је финансирао Министарство просвете, науке и технолошког развоја.

Редни број	Име	Презиме	Звање	Научноистраживачка организација
1	Љубиша	Балановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
2	Маја	Нујкић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
3	Милан	Радовановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
4	Милена	Јевтић	Доцент	Универзитет у Београду, Технички факултет у Бору
5	Александра	Митовски	Доцент	Универзитет у Београду, Технички факултет у Бору
6	Зоран	Стевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
7	Марија	Петровић- Михајловић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
8	Ана	Радјевић	Доцент	Универзитет у Београду, Технички факултет у Бору
9	Чедомир	Малуцков	Редовни професор	Универзитет у Београду, Технички факултет у Бору
10	Урош	Стаменковић	Доцент	Универзитет у Београду, Технички факултет у Бору

11	Павле	Стојковић	Асистент	Универзитет у Београду, Технички факултет у Бору
12	Јелена	Милосављевић	Асистент	Универзитет у Београду, Технички факултет у Бору
13	Јовица	Соколовић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
14	Исидора	Милошевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
15	Весна	Грекуловић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
16	Драгиша	Станујкић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
17	Предраг	Ђорђевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
18	Милица	Арсић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
19	Дејан	Таникић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
20	Срба	Младеновић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
21	Милан	Трумић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
22	Драган	Манасијевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
23	Снежана	Урошевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
24	Јелена	Калиновић	Асистент	Универзитет у Београду, Технички факултет у Бору
25	Снежана	Шербула	Редовни професор	Универзитет у Београду, Технички факултет у Бору
26	Зоран	Штирбановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
27	Милан	Горгиевски	Ванредни професор	Универзитет у Београду, Технички факултет у Бору

28	Ивана	Марковић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
29	Ненад	Вушовић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
30	Данијела	Воза	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
31	Миодраг	Бањешевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
32	Тања	Калиновић	Доцент	Универзитет у Београду, Технички факултет у Бору
33	Иван	Јовановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
34	Дејан	Богдановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
35	Драгана	Медић	Асистент	Универзитет у Београду, Технички факултет у Бору
36	Јасмина	Петровић	Асистент	Универзитет у Београду, Технички факултет у Бору
37	Саша	Марјановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
38	Ивана	Станишев	Доцент	Универзитет у Београду, Технички факултет у Бору
39	Милован	Вуковић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
40	Рadoје	Пантовић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
41	Снежана	Милић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
42	Слађана	Алагић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
43	Јелена	Вељковић- Ђоковић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
44	Ана	Симоновић	Доцент	Универзитет у Београду, Технички факултет у Бору

45	Жаклина	Тасић	Доцент	Универзитет у Београду, Технички факултет у Бору
46	Мира	Цоцић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
47	Маја	Трумић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
48	Дејан	Петровић	Доцент	Универзитет у Београду, Технички факултет у Бору
49	Нада	Штрбац	Редовни професор	Универзитет у Београду, Технички факултет у Бору
50	Ђорђе	Николић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
51	Грозданка	Богдановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
52	Ивана	Ђоловић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
53	Саша	Стојадиновић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
54	Кристина	Божиновић	Асистент	Универзитет у Београду, Технички факултет у Бору
55	Драган	Златановић	Доцент	Универзитет у Београду, Технички факултет у Бору

Прилог 4.

СПИСАК МЕЂУНАРОДНИХ ПРОЈЕКТА НА КОЈИМА СУ 2022. ГОДИНЕ УЧЕСТВОВАЛИ ИСТАЖИВАЧИ СА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ

1. COST program – projekat: Indor Air Pollution Network (2019 – 2022)

Институције учеснице на пројекту: Мрежа Европских универзитета и института, укључујући и Технички факултет у Бору

Руководиоц пројекта: Dr Nikola Carslaw, University of York, United Kingdom

Сарадници са Техничког Факултета у Бору: Проф. др Милица Величковић

Врста пројекта: Интернационални истраживачки пројекат у оквиру међународне COST акције, CA17136.

2. COST program – projekat: Rural NEET Youth Network: Modeling the risks underlying rural NEETs social exclusion (2019 – 2022)

Институције учеснице на пројекту: Мрежа Европских универзитета и института, укључујући и Технички факултет у Бору, Универзитет у Београду

Руководиоци пројекта: Prof. Dr Francisco Simoes, University Institute Lisbon

Сарадници са Техничког Факултета у Бору: др Ивица Николић; др Анђелка Стојановић

Врста пројекта: Интернационални истраживачки пројекат у оквиру међународне COST акције, CA18213.

3. Пројекат мобилности студената, наставног и ненаставног особља у оквиру програма "ERASMUS + KA1 мобилност студената, наставног и ненаставног особља Key Action 1-Mobility for learners and Staff Mobility– Higher Education Student and Staff Mobility", 2019.-2022 (University of Eastern Finland, Joensuu, Finska).

Институције учеснице на пројекту: Технички факултет у Бору Универзитета у Београду (Србија) и Joensuu Campus, School of Forest Sciences University of Eastern Finland (Финска)

Координатори пројекта: проф. Jyrki Kangas, Markku Ropo и Kirsi Karjaianen, University of Eastern Finland (Финска) и проф. др Александра Федајев (Србија)

Учесници у активностима мобилности са Техничког Факултета у Бору, у периоду реализације пројекта: проф. др Санела Арсић

Врста пројекта: Пројекат мобилности студената, наставног и ненаставног особља

4. International VISEGRAD project: Possibilities and barriers for Industry 4.0 implementation in SMEs in V4 countries and Serbia.

Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija), University of Ss. Cyril and Methodius in Trnava (Slovačka), Óbuda University in Budapest, (Mađarska), Tomas Bata University in Zlin (Republika Češka) i University of Economics in Katowice (Poljska)

Rukovodilac projekta: prof. dr Isidora Milošević (Srbija)

Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Danijela Voza, prof. dr Sanela Arsić.

Vrsta projekta: Internacionalni istraživački projekat finansiran od strane Internacionalnog Višegrad Fonda

5. Пројекат мобилности студената, наставног и ненаставног особља у оквиру програма "ERASMUS + KA1 мобилност студената, наставног и ненаставног особља: Key Action 1-Mobility for learners and Staff Mobility– Higher Education Student and Staff Mobility", 2017.-2022 (Transylvania University, Брашов, Румунија).

Институције учеснице на пројекту: Технички факултет у Бору Универзитета у Београду (Србија) и Transylvania University in Brasov (Румунија).

Координатори пројекта: др Luminita Parv (Румунија) и проф. др Александра Федајев (Србија)

Учесници у активностима мобилности са Техничког Факултета у Бору, у периоду реализације пројекта: др Ивица Николић

Врста пројекта: Пројекат мобилности студената, наставног и ненаставног особља

6. Пројекат мобилности студената, наставног и ненаставног особља у оквиру програма "ERASMUS + KA1 мобилност студената, наставног и ненаставног особља Key Action 1-Mobility for learners and Staff Mobility– Higher Education Student and Staff Mobility", 2017.-2022 (Politechnica University of Timisoara, Румунија).

Институције учеснице на пројекту: Технички факултет у Бору Универзитета у Београду (Србија) и Politehnica University of Timisoara (Румунија).

Координатор пројекта: проф. др Александра Федајев (Србија)

Учесници у активностима мобилности са Техничког Факултета у Бору, у периоду реализације пројекта: проф. др Милан Трумић

Врста пројекта: Пројекат мобилности студената, наставног и ненаставног особља

7. The RG PTT Collaboration Pool: A Gamified Multidisciplinary Research Project

Институције учеснице на пројекту: Технички факултет у Бору Универзитета у Београду (Србија) и Stichting LDMF, Groenekan, Холандија

Координатори пројекта: Luis Daniel Maldonado Fonken

Сарадници са Техничког факултета у Бору: prof. dr Zoran Stević

Врста пројекта: Међународни мултидисциплинарни пројекат

8. Research Reinforcing in the Western Balkans in Offline and Online Monitoring and Source Identification of Atmospheric Particles – WeBaSOOP 2022 - 2025

Институције учеснице на пројекту: Институт за нуклеарне науке Винча, Београд, Србија, Институт за рударство и металургију Бор, Градски завод за јавно здравље, Београд, Србија, Технички факултет у Бору, Norwegian Institute for Air Research – NILU, Kjeller, Norway, University of Nova Gorica, Slovenia, IDAEA – Institute of Environmental Assessment and Water Research, Barselona, Spain, Deakin University, Melbourne, Australia

Координатори пројекта: Институт за нуклеарне науке Винча, Београд, Србија

Сарадници са Техничког факултета у Бору: проф. др Дејан Таникић

9. Пројекат мобилности студената, наставног и ненаставног особља у оквиру програма ”СЕЕPUS мреже” 2022. године (University of Economics in Katowice, Faculty of Economics).

Проф. Др Милица Величковић, наставник Техничког факултета у Бору, одржала је предавање под називом: “Family business in transition economies” у оквиру СЕЕPUS мреже студентима Економског факултета Универзитета у Катовицама.

Назив мреже: PL-0056-17-2122 - Regional Development Network (REDENE)

Координатор: Проф. Krystian Heffner University of Economics in Katowice, Faculty of Economics

Учесници: University of Economics in Katowice, Faculty of Economics (Prof. Krystian Heffner); University of Klagenfurt, School of Management and Economics (Prof. Dr. Ralf Terlutter); Varna University of Economics, Faculty of Management (Stefan Kalpachev); Masaryk University, Faculty of Economics and Administration (Ph.D. Monika Jandová); VŠB – Technical University of Ostrava, Faculty of Economics (Maria Jaskova), Silesian University in Opava, Faculty of public policies in Opava (Mgr., Ph.D. Kateřina Janků); University of Miskolc, Faculty of Economics (PhD Andrea Sáfrányné Dr. Gubik); University of Montenegro, Faculty of Economics (Ph.D Boban Melovic); Ss. Cyril und Methodius University in Skopje, Faculty of Economics - Skopje (Ph.D Snezana Ristevska-Jovanovska); “BABES BOLYAI” UNIVERSITY OF CLUJ-NAPOCA, Faculty of Economics (PhD Kinga Kerekes); University of Belgrade, Technical faculty in Bor (PhD Aleksandra Fedajev); University of Ljubljana, School of Economics and Business (Petra Burgar); University of Economics in Bratislava, All Faculties (Veronika Králiková); University of Žilina in Žilina, Faculty of Operation and Economics of Transport and Communications.

СПИСАК ПРОЈЕКТА ИЗ ОКВИРА САРАДЊЕ СА ПРИВРЕДОМ НА КОЈИМА СУ 2022. ГОДИНЕ УЧЕСТВОВАЛИ ИСТРАЖИВАЧИ СА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ

Пројекти, студије, елаборати

1. Обуке за електротрична испитивања материјала за ТП, Abu Dhabi, УАЕ
2. Идејни пројекат откопавања кварцног песка на лежишту „Део“ Доња Бела Река (Уговор бр. VII/4-668/3, инвеститор: Југо-Каолин доо)
3. Техничка контрола Допунског рударског пројекта измене методе откопавања у борској Јами - лежиште руде бакра Борска река изнад коте К -235m
4. Елаборат о анализи резултата мониторинга сеизмичких ефеката при извођењу минирања на површинском копу „Велики Кривељ“ за 2022. и 2023. годину (Уговор бр. VII/4-280-4, инвеститор Serbia Zijin Copper)
5. Техничка контрола Техничког рударског пројекта продубљивања вентилационог окна ВОЗ до коте К-140m (Уговор број VII/4-575/3)
6. Техничка контрола Рударског пројекта истражних просторија у зони рудних тела "ТЗ" и "Т" (Уговор бр. VII/4-899/4)
7. Услуге асемблирања и тестирања 10 сензорских плоча за ЕТШ НТ
8. Развој до нивоа прототипа система за индукционо каљење челика
9. Техничка контрола Техничког рударског пројекта израде јамских просторија ИН-7, СО-2 и ПВ-8 у ОП2 у јами "Осојно-Југ" РЛ "Лубница" Лубница (Уговор бр. VII/4-943-4)
10. Пројекат санације и рекултивације површинског копа "Део" Доња Бела Река (Уговор бр. VII/4-668/3, инвеститор: Југо-Каолин доо)
11. Елаборат о допунским лабораторијским геомеханичким испитивањима за нову трасу обилазног тунела Кривељске реке (Уговор бр. VII/4-1205/3)
12. Елаборат о одређивању параметара минирања у близини санитарне зоне у северозападном делу површинског копа Велики Кривељ (Уговор бр. VII/4-90/5, инвеститор: Serbia Zijin Copper)

Прилог 6.

ОСТАЛЕ АКТИВНОСТИ У ОБЛАСТИ НИР-А НА ТЕХНИЧКОМ ФАКУЛТЕТУ У BORU У 2022. GODINI

1. Издавање часописа

Технички факултет у Бору има дугогодишњу традицију публикавања научно-истраживачких резултата. У оквиру издавачке делатности Технички факултет у Бору издаје четири научна часописа: *Journal of Mining and Metallurgy, Section A: Mining* (JMM-A), који се штампа као национални часопис; *Journal of Mining and Metallurgy, Section B: Metallurgy* (JMM-B) (штампа се од 1997. године као међународни часопис са интернационалним уређивачким одбором); *Serbian Journal of Management* (SJM) (штампа се од 2006. године као међународни часопис са интернационалним уређивачким одбором) и *Рециклажа и одрживи развој* (ROP) (штампа се од 2008. године као национални часопис). Сви часописи, финансирани су од стране ресорног министарства Владе Републике Србије.

Подаци о актуелном позиционирању часописа које публикује ТФ Бор током претходне године (према http://kobson.nb.rs/nauka_u_srbiji/kategorizacija_casopisa_.33.html):

- **Journal of Mining and Metallurgy, Section A: Mining (JMM-A)**, сврстан је у категорију **M24** (према категоризацији домаћих научних часописа у области енергетике, рударства и енергетске ефикасности за 2022. годину).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, сврстан је у категорију **M23**, са $IF(2021)=1,311$ (према категоризацији научних часописа у области Metallurgy & Metallurgical Engineering, за 2022. годину). Као и са петогодишњим $IF=1,165$ и местом 57/79 у поменутој области.
- **Serbian Journal of Management (SJM)**, сврстан је у категорију **M24** (према категоризацији домаћих научних часописа у области економије и организационих наука за 2022. годину). Часопис је такође рангиран на CJP листи с вредношћу $IF = 0,224$ за прошлу годину, односно има категоризацију Q3 у бази SCImago.
- **Recycling and Sustainable Development (RSD)**, сврстан је у категорију **M51** (према категоризацији домаћих научних часописа у области материјала и хемијских технологија за 2022. годину) и **M52** (према категоризацији домаћих научних часописа у области енергетике, рударства и енергетске ефикасности и домаћих научних часописа за уређење, заштиту и коришћење вода, земљишта и ваздуха за 2022. годину).

Од 2016. године Технички факултет у Бору издаје и студентски часопис **Engineering Management**.

2. Организација и сиорганизација научних скупова

Факултет је у 2022. години је организовао или учествовао у организацији следећих научних скупова:

- 53rd International October Conference on Mining and Metallurgy – IOC 2022, Бор, 3 – 5. октобар 2022.
- 18th International May Conference on Strategic Management – IMCSM22, Бор, 27 – 29. мај 2022.
- 29th International Conference Ecological Truth and Environmental Research - EcoTER'22, Сокобања, 21 – 24. јун 2022.

3. Потписани споразуми о билатералној сарадњи са факултетима и институцијама из иностранства, као и тренутно важећи споразуми потписани у претходном периоду

1. University Alma Mater Europaea (AME), Salzburg, Austria (2020-2030)
2. Maulna Azad National Institute of Technology, Bhopal, India (2020-2025)
3. Lomonosov Moscow State University, Faculty of Economics, Russia (2020-2025)
4. Економски факултет Универзитета у Зеници, Босна и Херцеговина (2019-2024)
5. Chemical Department, Buryat State University from Ulan-Ude, Russia (2018-2023)
6. Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria (2018 – 2023)
7. Faculty of Economic Sciences and Law, University of Pitesti, Romania (2018-2023)
8. Faculty of Economy, University of Tirana, Albania (2018 – 2023)
9. Faculty of Engineering and Management, University „Eftimie Murgu“, Resita, Romania (2018-2023)
10. Faculty of Mines, University of Mining and Geology „St. Ivan Rilski“, Sofia, Bulgaria (2018 – 2023)
11. Faculty of natural and technical sciences, University „Goce Delčev“ of Štip, Macedonia (2018 – 2023)
12. Metalurško – tehnološki fakultet u Podgorici, Univerziteta Crne Gore, Crna Gora (2018 – 2023)
13. Mineral Deposit Research Unit at the University of British Columbia, Canada (2018-2023)
14. University American College Skopje, Macedonia (2018 – 2023)
15. BGRIMM Technology Group, Beijing, China (2022 – 2025)
16. China University of petroleum Beijing, China (2017 – 2027)
17. Faculty of Business and Management, University of Ruse (2017 – 2027)
18. Рударски факултет у Добоју, Универзитет у Бањој Луци (2022 – 2027)
19. Саобраћајни факултет Универзитета у Источном Сарајеву (2016 – неограничено)
20. The Federal State Budgetary Educational Institution of Higher Education "The Russian

Presidential Academy of National Economy and Public Administration" RANEPА (2015 – 2025)

21. University of Chemical Technology and Metallurgy, Sofia, Bulgaria (2014 – 2024)

22. Univerzitet „Sv. Cirilo i Metodije“ u Skoplju, Republika Severna Makedonija

23. Технолошко-металуршки факултет, Скопље (2015 – неограничено)

24. West University of Timisoara, Faculty of Economics and Business Administration, Timisoara, Romania (2018 – неограничено)

25. Mineral Deposit Research Unit (MDRU) at the Univlrsity of British Columbia in Vancouver, BC, Canada (2018 – 2023)

26. Fakulta socialnych vied Univerzita sv Cyrila a Metoda v Trnave, Slovakia (2014 – 2024)

27. Institute of Geotechnics of Slovak Academy of Sciences, Košice, Slovakia (2017 – неограничено)

28. Технолошки факултет Универзитета у Бањој Луци (2022 – 2027)

29. Рударски факултет у Приједору, Универзитет у Бањој Луци (2022 – 2027)

4. Потписани споразуми о билатералној сарадњи са факултетима, школама и институтима из Србије, као и тренутно важећи споразуми потписани у претходном периоду

1. Институт за рударство и металургију Бор (2022 – 2027)

2. ЛОЛА институт (2022 – 2027)

3. Факултет за хотелијерство и туризам у Врњачкој Бањи, Универзитет у Крагујевцу (2022 – 2027)

4. Машински факултет у Нишу, Универзитет у Нишу (2022 – 2027)

5. Технолошки факултет Лесковац, Универзитет у Нишу (2022 – 2027)

6. Факултет техничких наука Универзитета у Приштини са привременим седиштем у Косовској Митровици (2022 – 2027)

7. Рударско – геолошки факултет, Универзитет у Београду (2022 – 2027)

8. Институт за хемију, технологију и металургију (2022 – 2027)

9. Природно-математички факултет, Универзитет у Нишу (2022 – 2027)

10. Институт за нуклеарне науке „Винча“, Универзитета у Београду (2018 -2023)

11. Технолошки факултет у Новом Саду, Универзитета у Новом Саду (2018 – 2023)

12. Институт за технологију нуклеарних и других минералних сировина, Београд (2018 – 2023)

13. Технолошко-металуршки факултет, Универзитет у Београду (децембар 2022- децембар 2027)

5. Потписани споразуми о билатералној сарадњи са компанијама и предузећима из Србије, као и тренутно важећи споразуми потписани у претходном периоду

1. HBIS GROUP Serbia Iron & Steel d.o.o. Beograd, огранак Смедерево

2. Kromberg & Schubert Serbia, (2020 – без временског ограничења)

3. Компанија „Elixir Prahovo“ Индустрија хемијских производа ДОО Прахово (2018 – без ограничења трајања)
4. Credit Agricole Србија, Нови Сад (2017 – без ограничења трајања)
5. Јавно предузеће за изградњу и експлоатацију регионалног водосистема „Боговина“ (2016 – без ограничења трајања)
6. ЈКП „Топлана“ Бор (2016 – без ограничења трајања)
7. Народна библиотека Бор (2016 – без ограничења трајања)
8. Народни музеј Зајечар (2016 – без ограничења трајања)
9. Музеј рударства и металургије Бор (2016 – без ограничења трајања)
10. Ј.П. „Борски туристички центар“ (2016 – без ограничења трајања)
11. ЈКП „3. октобар“ Бор (2016 – без ограничења трајања)
12. AlGold Processing doo, Београд (2021 – без ограничења трајања)

6. Учешће у академским и другим мрежама, Мобилност студената и наставног кадра

a. Associated Phase Diagram and Thermodynamics Committee

Још од 1999. године, наставници и сарадници ТФ Бор активно учествују у раду ове научне организације, која окупља научнике из области термодинамике и прорачуна фазних дијаграма. Поред наших научника, у овом комитету су и истраживачи из Пољске (AGH Краков, Институт за проучавање материјала при Пољској академији наука Краков), Чешке (Масариков Универзитет Брно и Институт за физику из Брна), Словачке (Факултет за металургију и материјале из Кошица), Мађарске (Металуршки факултет Универзитета у Мишколцу), Румуније (Институт за физичку хемију Букурешт), Бугарске (Департман за хемију Универзитета у Пловдиву), Словеније (НТФ Љубљана), Хрватске (Металуршки факултет Сисак), БиХ (Факултет за металургију и материјале Зеница).

b. Resita Network on Entrepreneurship and Innovation

Од 2008. године, Технички факултет у Бору је, као представник Универзитета у Београду, члан Resita Network on Entrepreneurship and Innovation, у чијем саставу су и следећи универзитети: University of applied sciences Wormes, Germany; University of Trier, Germany; University of Salzburg, Austria; GEA College Ljubljana, Slovenia; University of Zenica, BiH; University Eftimie Murgu Resita, Romania; University of Rousse, Bulgaria; University of Bucharest, Romania; University of Montenegro Podgorica, Montenegro; Politechnical University Timisoara, Romania, Open American College Skopje, Macedonia, University of Tirana, Albania. Иако је пројекат DAAD, у оквиру кога је формирана ова мрежа окончан, мрежа и даље функционише у смислу заједничких истраживачких пројеката.

c. MET-NET mreža

Од 2008. године, ТФ Бор је члан MET-NET мреже металуршких факултета, чије су чланице сви металуршки факултети из региона – Словеније, Хрватске, БиХ, Црне Горе,

Македоније, Словачке, а очекује се и ширење мреже члановима из Пољске, Грчке, Бугарске, Румуније, Турске, Албаније.

d. EURAXESS Services mreža

Потписивањем Декларације о привржености EURAXESS Service мрежи и Декларације о привржености одржавању EURAXESS Jobs portal-a, ТФ Бор је још од 2010. године постао део Националне EURAXESS мреже (www.euraxess.rs) која брине о мобилности истраживача и тиме је омогућен приступ отвореним позивима и истраживањима у оквиру наведене мреже.

e. Nacionalna mreža tehnoloških brokera

У оквиру ЕУ програма интегрисане подршке иновацијама, развијена је национална мрежа технолошких брокера, са циљем даљег унапређења подршке МСП Сектору. ТФ Бор је од 2013. године део ове националне мреже, коју чини 11 факултета и научно-истраживачких институција из Србије.

f. Cesaer Newtork

Почетком 2020. године Универзитет у Београду се прикључио међународној академској мрежи CESAER (<https://www.cesaer.org/>). Сви факултету Универзитета у Београду, укључујући и Технички факултет у Бору, потписали су меморандум о сарадњи са институцијама у оквиру ове мреже. Наведена мрежа је основана 1990. године и окупља водеће европске универзитете на којима се изучавају техничко-технолошке науке. Укључивањем у наведену мрежу, истраживачима са Техничког факултета у Бору, отворена је могућност умрежавања са колегама са других институција – учлањених у мрежу, у оквиру радних тела CESAER мреже.

g. SAP University Alince

Током 2020. године, истраживачи и студенти Факултета су наставили и активности у оквиру академске мреже SAP University Alince, у оквиру које се спроводи обука за коришћење SAP ERP програмског пакета и вршило стручно усавршавање кроз пројектне активности „SET – SAP „Students’ Entrepreneurship Training through SAP“ пројекта, реализованог у оквиру позива „развој високог образовања“ финансираног од стране Министарства просвете, науке и технолошког развоја.

h. Мобилност студената у оквиру програма "ERASMUS +" кључне акције 1 – мобилност студената, наставног и ненаставног особља

У оквиру програма Европске уније ЕРАСМУС + КА1 наставни Техничког факултета у Бору др Санела Арсић посетила је Универзитет Источне Финске где је одржала предавање. Такође, др Ивица Николић, универзитетски наставник у звању доцента одржао

је предавање на Transilvania University у Брашову, Румунија. Током 2022. године проф. др Милан Трумић, универзитетски наставник у звању редовног професора посетио је Politehnica University of Timisoara у Темишвару у Румунији.

i. Активности и мобилност у оквиру COST програма и Европске CEEPUS мреже за мобилност наставника и студената

У 2022. години, наставници и сарадници Техничког факултета у Бору користили су средства доступна за мобилност, у оквиру CEEPUS мреже Европских универзитета. У оквиру ове мреже, др Милица Величковић, универзитетски наставник у звању ванредног професора посетила је Институт за хемију при Универзитету Eotvos Lorand у Будимпешти, Мађарска (COST акција СА 17136). Такође, др Јелена Ивас, универзитетски сарадник у звању асистента и Павле Стојковић, универзитетски сарадник у звању асистента, похађали су школу рударства Petroleum Engineering Summer School у Дубровнику, Хрватска, у оквиру CEEPUS програма. Др Милица Величковић, универзитетски наставник у звању ванредног професора, присуствовала је завршном састанку у оквиру COST акције СА 17136 у Барселони, Шпанија. У 2022. години, др Анђелка Стојановић, универзитетски наставник у звању доцента, излагала је научни рад и присуствовала састанку радне групе у оквиру COST акције СА 18213 у Бреши, Италија.

7. Промоција и популаризација науке

Као и ранијих година, током 2022. године, Технички факултет у Бору је наставио са активностима у оквиру промоције и популаризације науке.

Током 2022. године је, након завршетка пандемије COVID 19, промоција Факултета спроведена обиласком средњих школа од стране чланова тима за промоцију Факултета. У 2022. години тим за маркетинг Техничког факултета у Бору наставио је са активностима везаним за разматрање штампаног пропагандног материјала Факултета, за разматрање ТВ и радио реклама Факултета, за предлагање мера за унапређење наступа Тима за промоцију Факултета у школама.

У оквиру Дана студената, на Техничком факултету у Бору организован је Дан отворених врата, са циљем упознавања будућих бруцоша са могућностима студирања на Техничком факултету у Бору.

Промоција Техничког факултета у Бору одвија се и преко интернета, преко сајта prijemni.rs. Поред тога, Факултет остварује значајно присуство на друштвеној мрежи Facebook. Број корисника који прате страницу Техничког факултета у Бору износи 2.374. Највећи број корисника који прате објаве на страници су из Бора, Београда, Зајечара, Неготина, Мајданпека, Лесковца, Ниша, Сврљига, Сокобање као и других градова, а објаве на страници константно прате и инострани корисници из Аустрије, Немачке, САД, Француске, Италије, Словеније, Хрватске, Босне и Херцеговине и Македоније, чиме се остварује регионална, али и међународна видљивост. Постоји јако добар позитиван одзив на објаве које су реализоване на страници датих у погледу позитивних коментара, лајкова, линковања на страницу и осталих елемената. Не постоје забележени случајеви негативних

одзива на објаве реализоване на страници. Остварена је јако добра директна комуникација са корисницима преко инбоха на страници где корисници често постављају разноврсна питања везана за делатност и рад Факултета. На свако питање се благовремено одговара од стране ИКТЦ у консултацији са руководством Факултета и релевантним службама. Такође, постоји констатни прилив броја нових корисника који прати страницу или на неки начин има интеракцију са самом страницом. Технички факултет у Бору остварује присуство и на Instagram друштвеној мрежи. Тренутно, Факултет има 646 пратилаца овог налога уз присутан тренд раста броја пратилаца. Највећи број пратилаца долази из Бора, Београда, Новог Сада, Ниша и Зајечара. Поред пратилаца из Србије Instagram налог Факултета прате заинтересовани из земаља попут: Немачке, Мађарске, Црне Горе, Босне и Херцеговине.

8. Учешће Техничког факултета у Бору на сајмовима

Технички факултет у Бору је учествовао на 10. Регионалном сајму образовања у Ћуприји “НОУФЕСТ 2022” 18. марта 2022. године, где су промовисани студијски програми матурантима и осталим средњошколцима.

Технички факултет у Бору је учествовао и на онлајн сајму образовања који је организовао Универзитет у Београду, 15. и 16. новембра 2022. године. Проф. др Јовица Соколовић и проф др. Санела Арсић, представили су активности Техничког факултета у Бору и све студијске програме на основним академским студијама.

9. Студијски боровци или посете универзитетима из иностранства

Март 2022.

Проф. др Драган Манасијевић, универзитетски наставник у звању редовног професора, проф. др Срба Младеновић, универзитетски сарадник у звању ванредног професора, проф. др Ивана Марковић, универзитетски наставник у звању ванредног професора и Јасмина Петровић, универзитетски сарадник у звању асистента, су у периоду од 9. до 12. марта 2022. године били у Боровцу, Бугарска где су излагали научне радове на међународном симпозијуму под називом XIX International Congress Machines, Technologies, Materials – Winter Session.

Април 2022:

Проф. др Иван Михајловић, универзитетски наставник у звању редовног професора је у период од 24. до 30. априла 2022. године учествовао на Интернационалној недељи и МЕВ конференцији у Будимпешти у Мађарској, где је одржао предавање студентима и презентовао резултате Вишеград пројекта на Obuda University.

Мај 2022.

Проф. др Драгиша Станујкић, универзитетски наставник у звању ванредног професора, је у периоду од 26. до 29. маја је присуствовао међународној конференцији "

International Conference on Advances in Science and Technology – COAST 2022" где је излагао научни рад.

Јелена Иваз, Павле Стојковић и Милан Стајић, универзитетски сарадници у звању асистента, су у времену од 2. до 6. маја 2022. године похађали радионице школе рударства International Mining School DIM ESEE-2 у Мађарској.

Јун 2022.

Проф. др Маја Трумић, универзитетски наставник у звању ванредног професора, је у периоду од 12. до 18. јуна 2022. године посетила Politehnica University of Timisoara у Румунији ради проширења сарадње кроз ИПА пројекте. Такође, проф. др Маја Трумић је на позив Универзитета одржала предавање по позиву.

Проф. др Миодраг Бањешевић, универзитетски наставник у звању ванредног професора, је у периоду од 23. до 30. јуна био у посети Институту у Цириху, Швајцарска ради договора о будућој сарадњи.

Септембар 2022:

Проф. др Драган Манасијевић и проф. др Љубиша Балановић у период од 12. до 16. септембра 2022. године присуствовали су међународном скупу под називом 18th Discussion Meeting on Thermodynamics of Alloys – TOFA 2022 и посетили су AGH University of Science and Technology у Кракову, где су разговарали о могућим видовима научне сарадње између UGH Univerziteta и Техничког факултета у Бору.

Адријана Јевтић, универзитетски сарадник у звању асистента, посетила је Технички универзитет Пименау – Факултет за економију и медије у Немачкој, у период од 26. до 30. септембра 2022. године, ради договора у будућој сарадњи на међународним пројектима.

Проф. др Грозданка Богдановић, универзитетски наставник у звању редовног професора, је у времену од 13. до 16. септембра била у посети Aristotle University of Thessaloniki, Faculty of Sciences, у циљу разговора о будућој сарадњи на међународним пројектима.

Октобар 2022.

Проф. др Дејан Таникић, универзитетски наставник у звању редовног професора, на функцији декана Факултета, у периоду од 21. до 22. октобра је био у Бањој Луци, где је присуствовао конференцији: "Conference of Chemists, Technologists and Environmentalists of Republic of Srpska" као представник суорганизатора конференције.

Новембар 2022.

Др Јасмина Петровић, универзитетски сарадник у звању асистента, је у времену од 16. до 24. новембра 2022. посетила Факултет за инжењеринг, Универзитета у Лунду, Шведска где је вођен договор о будућој сарадњи на међународним пројектима.

Децембар 2022.

Проф. др Драган Манасијевић и проф. др Љубиша Балановић су у периоду од 13. до 14. децембра 2022. године посетили су Металуршки факултет у Сиску, Хрватска.

Проф. др Миодраг Бањешевић, универзитетски наставник у звању ванредног професора, је у времену од 1. до 6. децембра био у посети Institute fur Mineralogie, Leibniz Universitat у Хановеру, Немачка ради договора око будуће сарадње између поменутог института и Техничког факултета у Бору.

10. Студијски боравци или посете са других универзитета из иностранства

Јун 2022:

У оквиру ERASMUS + програма, на Техничком факултету у Бору боравили су проф. др Francisk Popesku и проф. др Adriana Eugen Cioabla са Машинског факултета Универзитета за политехнику у Темишвару. Током боравка на Факултету проф. др Francisk Popesku и проф. др Adriana Eugen Cioabla су одржали предавање студентима са студијског програма Рударско инжењерство, на модулима Припрема минералних сировина и Рециклажне технологије и одрживи развој. Овом приликом је разговарано и о развоју даље пословне, образовне и научне сарадње између институција као и могућности реализације међународних пројеката.

11. Презентације, предавања и награде

Март 2022:

Дана 17.03.2022. године у посети Техничком факултету у Бору били су ректор проф. др Владан Ђокић и проректор за наставу проф. др Дејан Филиповић. Приликом посете ректор и проректор су посетили лабораторије Факултета и одржали сасатнак са руководством где су договорени даљи облици сарадње.

Април 2022:

Представници компаније Le Belier Кикинда посетили су Технички факултет у Бору и том приликом су представили компанију присутним студентима и наставницима. Такође, заинтересоване студенте су упознали са могућностима обављања плаћене стручне праксе у компанији.

Мај 2022:

Представници компаније ваљаоница бакра Сеојно АД су 26.05.2022. године посетили Технички факултет у Бору. Том приликом су презентовали своју компанију заинтересованим студентима, упознали студенте са могућностима запослења и са програмом стипендирања.

Др Слободан Цветковић, научни сарадник Института за Хемију, технологију и металургију Универзитета у Београду, 25.05.2022. године у свечаној Сали Техничког

факултета у Бору одржао је предавање на тему „Биогас технологија у функцији заштите животне средине – Статус и перспективе у Републици Србији“. Предавање је организовала Подружница Српског хемијског друштва Бор у сарадњи са Техничким факултетом у Бору.

Септембар 2022:

Дана 19.09.2022. године Технички факултет у Бору посетила је делегација компаније SERBIA ZIJIN MINING DOO BOR на челу са господином Yan Minghui-јем, генералним директором за људске ресурсе. Руководство Факултета је упознато са потребама компаније за високошколованим кадром пре свега из области рударства. Овом приликом разговарано је и о плановима за будућу сарадњу између ових институција.

Дана 23.09.2022. године Технички факултет у Бору посетила је делегација компаније ЈП ПЕУ Ресавица. Делегацију ЈП ПЕУ Ресавица чинили су: Слободан Митић, дипл. Инж. Рударства, извршни директор, Милица Петровић, мсц ецц. Главни координатор и Александра Ивановић Мијатовић, филолог, сарадник директора за људке ресурсе. У разговору са руководством Факултета договорени су планови за будућу сарадњу између ових институција.

Октобар 2022:

Технички факултет у Бору посетили су представници Фабрике технолошко-металуршке обраде из Трстеника, који су студентима представили фабрику и указали на тренутне и будуће потребе за дипломираним инжењерима металургије, технологије и инжењерског менаџмента. Поред тога, представљена је и могућност стипендирања студената завршних година. Након предавања, гости из Трстеника су у разговору са руководством Факултета и представницима студијских програма разговарали о плановима за будућу сарадњу.

Представници компаније SERBIA ZIJIN MINING DOO BOR одржали су презентацију заинтересованим студентима Техничког факултета у Бору о могућностима запошљавања у њиховој компанији.

Представници компаније ЈП ПЕУ Ресавица одржали су презентацију под називом: "ПОДЗЕМНА ЕКСПЛОАТАЦИЈА И ЊЕНА БУДУЋНОСТ У СРБИЈИ СА БУДУЋИМ ИНЖЕЊЕРИМА – СТУДЕНТИМА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ" и на тај начин представили своју компанију указали на тренутне и будуће потребе за дипломираним инжењерима рударства.

Новембар 2022:

Технички факултет у Бору посетила је делегација компаније Serbia Zijin Copper DOO. Делегацију је предводио директор Сектора за људске ресурсе Huang Zhaoyu. Током посете је договорена даља сарадња између Факултета и Компаније као и могућност финансирања пројекта реконструкције зграде Минеролошке збирке од стране Serbia Zijin Copper DOO.

Технички факултет у Бору био је крајем новембра домаћин истакнутим научницима из међународних институција, који су представили резултате истраживања негативних ефеката атмосферских честица по здравље људи на подручју Западног Балкана. Ово вредно предавање, под називом „Офлајн и онлајн мониторинг и идентификација извора атмосферских честица на Западном Балкану“, који је резултат пројекта WeBaSOOP, имало је за циљ да ојача истраживачке центре и пренос знања и вештина у вези са праћењем и проценом ПМ честица и аеросоли у ваздуху. Резултате истраживања представили су: Милена Јовашевић-Стојановић из Института за нуклеарне науке Винча, Андрес Аластуеи са Института за процену животне средине и истраживање вода у Барселони, Стивен Метју Плат са норвешког Института за истраживање ваздуха, Кристина Глојек са Универзитета у Новој Горици (Словенија) и Светлана Стевановић са Универзитета Деакин у Мелбурну (Аустралија), која је резултате представила путем видео линка.

