Универзитет у Београду
Технички факултет у Бору
Број: VI/4-36-3
Бор, 08. 07. 2022. године

На основу чл. 49. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 07. 07. 2022. године, донело је

О Д Л У К У

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2021. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2021. години, саставни је део ове Одлуке.

Доставити:
- председнику Комисије
- продекану за НИР
- архиви
- сајт

ЗА ПРЕДСЕДНИКА
НАСТАВНО-НАУЧНОГ ВЕЋА

Продекан за наставу

Проф. др Драган Манасијевић

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, маја и јуна месеца 2022. године, за претходну 2021. годину.

Након спроведеног поступка и обраде добијених резултата, Комисија у складу са Чланом 7. Правилника, Наставно-научном већу доставља следећи

И З В Е Ш Т А Ј

О РЕЗУЛТАТИМА ВРЕДНОВАЊА НАУЧНОГ РАДА

1. ОПШТИ ДЕО

Поступак вредновања научног рада на Техничком факултету у Бору спровела је Радна група Комисије коју су чинили:

- Проф. др Милован Вуковић, продекан за НИР и МС, руководилац,
- Проф. др Марија Панић, члан и
- Проф. др Милан Радовановић, члан.

Вредновање резултата научног рада урађено је током маја и јуна месеца 2022. године, а односи се на претходну календарску годину. Њиме су били обухваћени сви наставници и сарадници запослени на Техничком факултету у Бору у 2021. години.

Као члан Комисије за обезбеђење и унапређење квалитета, проф. др Милован Вуковић, продекан за НИР и МС, прикупио је и обрадио неопходне податке и на основу њих саставио **Годишњи извештај о резултатима оствареним у научно-истраживачком раду и међународној сарадњи за 2021. годину**, који је, као саставни део овог Извештаја, дат у Прилогу.

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње на Техничком факултету у Бору за 2021. годину, односи се на следеће податке:

- Публиковане монографије и друго (М13-М14),
- Публиковани радови у међународним часописима са ИФ (М21-М23),
- Публиковани радови у међународним часописима без ИФ (М24);

- Уређивање научних часописа и тематских монографија (М29),
- Саопштени радови на међународним скуповима (М31-М34),
- Публиковани радови у националним часописима (М51-М53),
- Саопштени радови на националним скуповима (М61-М64),
- Публиковани уџбеници,
- Учешће на пројектима (међународни пројекти, пројекти МПНТР РС, пројекти које финансира привреда),
- Цитираност истраживача у 2021. години (према SCOPUS-у),
- Остале активности (издавање часописа; организација научних скупова; билатерални споразуми о сарадњи са факултетима и институцијама из земље и из иностранства, као и са компанијама; активности на промоцији и популаризацији науке; награде и признања).

Комплетан материјал који се односи на спроведено вредновање резултата научног рада, предат је архиви Факултета на даље чување.

2. ПОСЕБАН ДЕО

У складу са Правилником о поступку, начину вредновања и квантитативном исказивању научно-истраживачких резултата истраживача, извршена је класификација резултата научно-истраживачког рада које су остварили истраживачи запослени на Техничком факултету у Бору у току 2021. године.

Збирни приказ резултата научно-истраживачког рада дат је у Табели 1.

Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2021. год.

Тип резултата - категорија, према МПНТР РС	Број остварених резултата	УКУПНО
М13	2	М10 – 4
М14	2	
М21а + М21	9+18=27	М20 - 74
М22	13	
М23	32	
М24	2	
М29а		
М29b		
М29v		
М31	2	М30 - 83
М32	1	
М33	73	
М34	4	

M36	3	
M51	13	M50 - 22
M52	5	
M53	3	
M54	1	
M61	1	M61,63 - 6
M63	5	
M64	13	M64 - 13
Уџбеници		4
Цитираност	370 радова цитирано 1382 пута	
Истраживачи ангажовани на пројектима финансираних од стране МПНТР РС	62 + 6 = 68	
Истраживачи ангажовани на домаћим пројектима Фонда за науку и/или Фонда за иновациону делатност	2	
Међународни пројекти	12	
Пројекти финансирани од стране привреде и остали пројекти	7	
Учешће у организацији нучних скупова	3 међународна научна скупа	
Публиковани часописи	4 научна часописа + 1 студентски часопис	

3. ЗАКЉУЧЦИ

Након спроведеног поступка вредновања научно-истраживачког рада на ТФ у Бору и обраде података за 2021. годину, може се закључити следеће:

У поређењу са резултатима постигнутим у 2020. години, резултати постигнути у 2021. су слабији само у категорији:

- M70 – ниједна одбрањена докторска дисертација,

У поређењу са резултатима постигнутим у 2020. години, резултати постигнути у 2021. су бољи у следећим категоријама:

- M10 – 3 референце више,
- M20 – 16 референци више,
- M60 – 17 референци више,
- Уџбеници – 1 више,
- Број цитираних радова – 76 више,
- Број цитата – 409 више у односу на претходну годину.

У поређењу са резултатима постигнутим у 2020. години, резултати постигнути у 2021. су остали на приближно истом нивоу у категоријама: М30, М40, М50, број ангажованих истраживача на пројектима МПНТР РС, међународни и пројекти са привредом, организовање научних скупова, као и публиковани научни часописи.

У односу на 2020. годину, повећао се број радова објављених у међународним часописима категорије М20. Двоструко се повећао број објављених радова у најпрестижнијим часописима (категорије М21а), а четири пута више радова је објављено у категорији М21.

У 2021. години се зауставио вишегодишњи силазни тренд у погледу објављених радова у домаћим часописима. Међутим, оно што је запажено јесте да разултате својих истраживања у часописима ове категорије пласира мањи број наставника највиших звања, док млађи истраживачи објављују резултате својих истраживања у часописима категорије М50. Главни разлог томе би могао бити тај што се ови часописи мање бодују према Правилнику о вредновању резултата научно-истраживачког рада.

На основу укупних постигнутих резултата, може се закључити да су током 2021. године, упркос наставку кризне ситуације, остварени солидни реултати, који су много бољи по питању већине категорија НИР-а, а посебно када је у питању објављивање радова у међународним часописима. То потврђује да су истраживачи са Техничког факултета у Бору прилагодили ситуацији и уложили знатно већи труд како би постигли запажене резултате. Самим тим, може се очекивати да ће 2022. година, уз стабилизацију глобалне пандемије, донети још боље резултате научно-истраживачког рада на Техничком факултету у Бору.

Прилог: Годишњи извештај о резултатима оствареним у научно-истраживачком раду и међународној сарадњи за 2021. годину

У Бору, јун 2022. год.

Председник Комисије за обезбеђење и унапређење квалитета

Проф. др Марија Панић

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Достављено:

- Наставно-научном већу
- Архиви Факултета
- Архиви Комисије

Прилог:

Годишњи извештај о резултатима остварeним у научно-истраживачком раду и међународној сарадњи за 2021. годину

Универзитет у Београду,

Технички факултет у Бору

Годишњи извештај о резултатима остварeним у научно-истраживачком раду и међународној сарадњи за 2021. годину

Бор,

мај 2022. године

ОСНОВНИ ПОДАЦИ

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2021. 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 инжењертво 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: 4+74=78 радова;
2. Објављени радови у националним часописима, категорије М50: 22 рада;
3. Објављени уџбеници: 4 уџбеника;
4. Саопштени радови на међународним (М30) и националним (М60) скуповима: 80+19=99 радова;

5. Ангажовање на пројектима:
    a. Истраживачи ангажовани по Уговору о реализацији и финансирању научноистраживачког рада НиО у 2021. години, код Министарства просвете науке и технолошког развоја Републике Србије: 62.
    b. Међународни пројекти: 6
    c. Пројекти финансирани од стране привреде и остали пројекти: 12
6. Цитираност у 2021. години (SCOPUS резултати): 370 радаова цитирано 1382 пута.

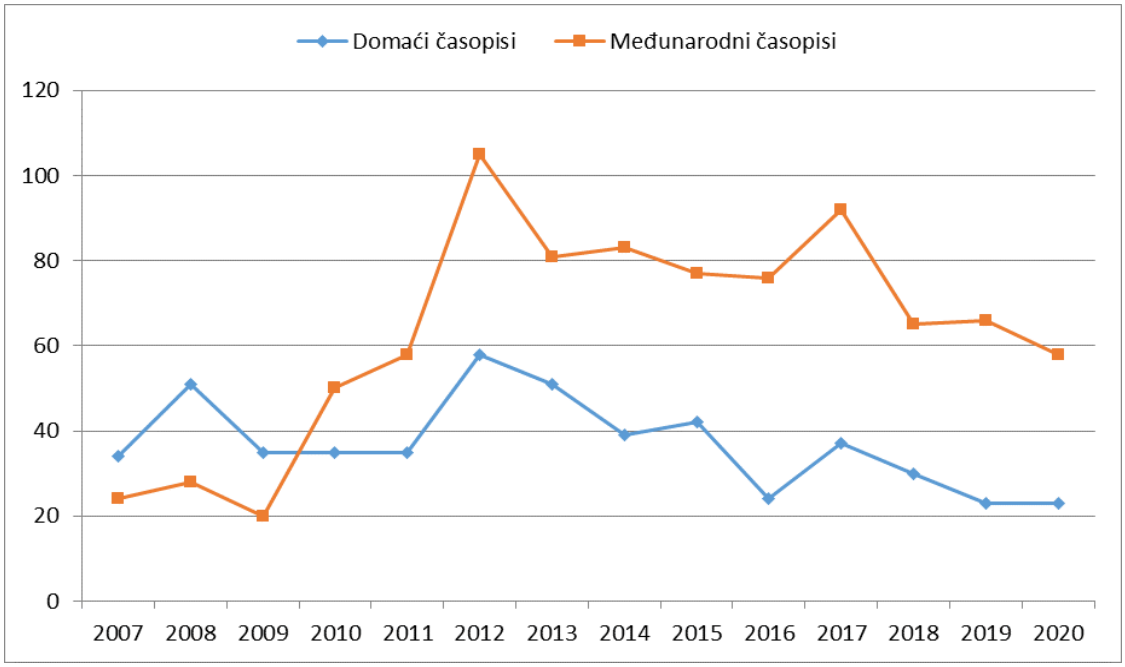
Збирни приказ резултата НИР-а за 2021. годину дат је у Табели 1.

Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2021. год.

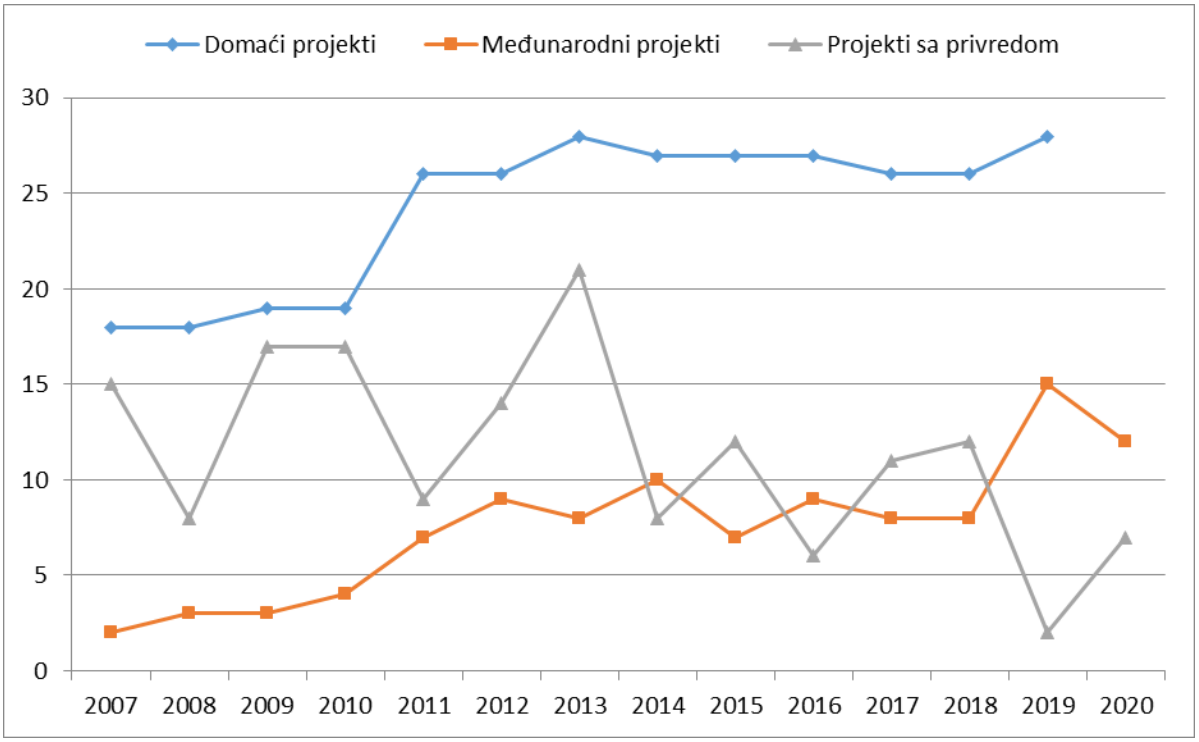
Тип резултата - категорија, према МПНТР РС	**Број остварених резултата**	**УКУПНО**
M13	2	M10 – 4
M14	2	
M21a + M21	9+18=27	M20 - 74
M22	13	
M23	32	
M24	2	
M29a		
M29b		
M29v		
M31	2	M30 - 83
M32	1	
M33	73	
M34	4	
M36	3	
M51	13	M50 - 22
M52	5	
M53	3	
M54	1	
M61	1	M61,63 - 6
M63	5	
M64	13	M64 - 13
Уџбеници		4
Цитираност	370 радова цитирано 1382 пута	
Истраживачи ангажовани на пројектима финансираних од стране МПНТР РС	62 + 6 = 68	
Истраживачи ангажовани на домаћим пројектима Фонда за науку и/или Фонда	2	

за иновациону делатност	
Међународни пројекти	12
Пројекти финансирани од стране привреде и остали пројекти	7
Учешће у организацији нучних 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 2020. године. У овом извештају упоређени су остварени резлултати за 2021. годину са претходним, а посебно са оним за претпрошлу, 2021. годину. То је посебно учињено из разлога што су се свеколике активности, укључујући и научноистраживачку делатност, одвијале у условима ванредних околности изазваним поандемијом Ковид 19.



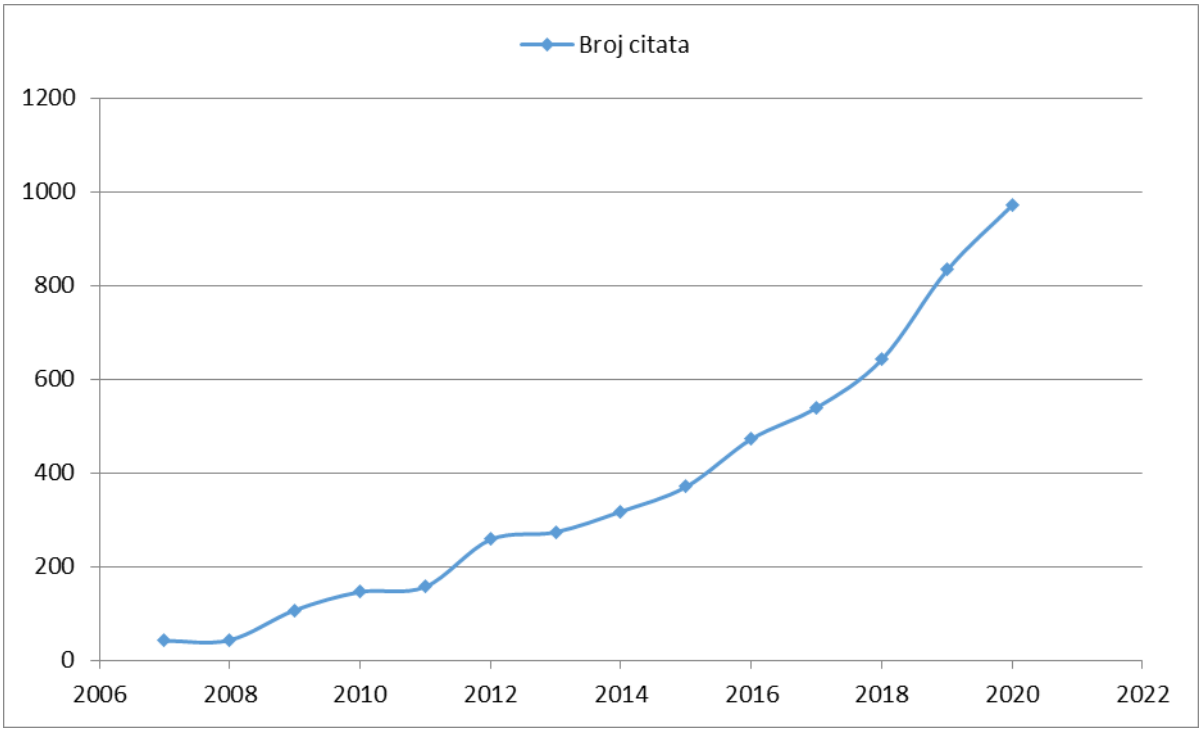
Слика 1. Упоредни приказ броја радова објављених у међународним и домаћим часописима (М20 и М50) на ТФ Бор у периоду 2007. – 2020. год.



Слика 2. Упоредни приказ броја домаћих, међународних и пројеката са привредом реализованих на ТФ Бор у периоду 2007–2020.

Табела 2. Упоредни приказ резултата категорија М30, М60, М70 и М80 за период 2010 –2020.

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



Слика 3. Упоредни приказ броја цитата на JCR листи за ТФ Бор за период 2007–2020.

На почетку анализе резултата остварених из области научно-истраживачког рада неопходно је указати на чињеницу да је 2021. година имала своје специфичности у односу на вишегодишњи тренд. Наиме, здравствена криза отпочета 2020. године, изазвана панедмијом Ковид 19, само је погоршала опште услове за одвијање активности пословних и непрофитних организација, укључујући и високошколске установе.

Многе активности везане за представљање резултата научноистраживачког рада, попут међународних конференција, биле су отказане, одложене или организоване у тзв. онлајн формату. Поређење остварених резултата НИР-а у 2021. години, с оним постигнутим у претходном десетогодишњем периоду, не пружа отуда праву слику с обзиром на бројне отежавајуће околности које су се јавиле у минуле две године. Упркос томе, у наставку овог извештаја биће предочена анализа спроведена на уобичајен начин - поређењем остварених резултата за претходну годину - како би се сагледало у ком степену се кризна ситуација одразила на реализацију НИР-а.

Предочени резултати, на срећу, сведоче да су током 2021. године, упркос наставку кризне ситуације, остварени солидни реултати. Они су много бољи по питању већине категорија НИР-а; посебно када је у питању објављивање радова у међународним часописима. То потврђује да су истрживачи са Техничког факултета у Бору уложили труд хвале вредан како би и у новонасталим, неповољним условима

постигли добре резултате вредне објављивања у водећим међународним часописима.

Узимајући у обзир наведене неповољне околности, које су добрано оставиле трага на истраживачке активности, изложени резултати научно-истраживачких активности истраживача са Техничког факултета у Бору током 2021. године више него охрабрују. Наиме, у односу на претпрошлу годину увећао се број радова објављених у међународним часописима категорије М20 - са 58 на 74. Вредна помена је и чињеница да се двоструко повећао број објављених радова у најпрестижнијим часописима - оним категорије М21а, са 4 на 9. Још је веће повећање објављених радова у часописима категорије М21, са четири рада, колико их је објављено у 2020. години, на чак 18 радова, објављених прошле године.

Поређење са претходним периодом (2012-2019), ипак, указује на одређени пад укупног броја објављених радова у међународним часописима, посебно у односу на рекордне 2012. и 2017. годину. Бројке говоре саме за себе. Број објављених радова у часописима категорије М20 кретао се на следећи начин: 97 (2012), 81 (2013), 83 (2014), 77 (2015), 76 (2016), 96 (2017), 65 (2018), 66 (2019) и 58 (2020).

Охрабрује чињеница, већ истакнута, да се удео радова објављених у часописима категорије М21 није смањио у оквиру категорије М20 радова, на нивоу претходног периода. Примера ради, 2018. године је објављено 6 радова у часописима категорије М21 и један рад у часопису кетегорије М21а; у 2019. години штампано је 8 радова у часописима категорије М21 категорије, као и 3 рада у часописима категорије М21а. Претпрошле године су објављена 4 рада у часописима категорије М21 и 4 рада у часописима категорије М21а. Током 2021. године, с друге стране, објављено је 27 радова у часописима категорије М20 - 9 (М21а) и 18 (М21).

У 2021. години се зауставио вишегодишњи силазни тренд (2012-2019) у погледу објављених радова у домаћим часописима. Наставници и сарадници Техничког факултета у Бору су током 2021. године објавили 22 рада у часописима категорије М51. Чини се да је на помолу период стагнације у коме треба очекивати годишње око 22 рада у часописима националног значаја. Приметно је да разултате својих истраживања у часописима ове категорије пласира мањи број наставника највиших звања. Млађи истраживачи понекад објављују резултате својих истраживања у часописима категорије М50. Главни разлог томе је, чини се, да се они мање бодују према Правилнику о вредновању резултата научноистраживачког рада, те, последично, имају мали значај у избору у наставна звања на државним универзитетима. Радови у часописима категорије М51, односно у водећим националним часописима, имају своје место у тзв. минималним критеријумима за избор у наставна звања, који се користе на другим универзитетима, како државним тако и приватним.

У току 2021. 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. Насупрот деценијској пракси током које је ресорно Министарство финансирало појединачне пројекте, током 2021. године финансирани су истраживачи који су ангажовани на наведеним пројектима, али на нивоу НИО – односно Факултета. Следствено томе, јануара 2021. године, потписан је Уговор о реализацији и финансирању научноистраживачког рада НИО у 2020. години са Министарством. Крајем 2021. године припремљен је описни 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 2022. годину, на основу кога је настављено финансирање пројектних активности од стране Министарства и током текуће, 2022. године.

Поменути прелазак на институцијално финансирање, уместо пројектног, од стране Министарства, довео је до тога да у даљем периоду није могуће поредити броја пројеката ове врсте са претходним периодом. Уместо тога, користиће се поређење броја ангажованих истраживача на пројектним активностима Министарства. Током 2021. године, на основу уговора потписаног са Министарством, на Факултету је било ангажовано 62 истраживача.

У току 2021. године окончано је вредновање пројектата које су предложили истраживачи са Техничког факултета у Бору, а по основу Конкурса који је претходно, 2020. године, расписао Фонд за науку. Наставници и сарадници Техничког факултета у Бору су учествали у осмишљавању 16 пројектних идеја, у оквиру позива ИДЕЈЕ, програма Фонда за науку Републике Србије. Истраживачи са Факултета су код 6 идеја били на месту потенцијалних руководилаца пројекта, док су код осталих били чланови пројектних тимова истраживача са других институција. Резултати евалуације наведених пројектних идеја нису били добри будући да је мали број пројеката одобрен. Сличан епилог био је и у другим научноистраживачким установама.

Ипак, међу одобреним пројектима у оквиру програма ИДЕЈЕ налази се истраживање које води ИТНМС у Београду (руководилац проф. др Александра Даковић), а члан тима је и проф. др Мира Цоцић, наставник Техничког факултета у Бору. Реч је о пројекту *Composite clays as advanced materials in animal nutrition an dbiomedicine* (*AniNutBiomedCLAYs*), који је одобрио Фонд за науку. Његова реализација је предвиђена за 2022. годину (Уговор I/1-1308, 17. 12. 2021).

Истраживачи са ТФ Бор учествовали су током 2021. године на 7 међународних истраживачких пројеката и пројеката међународне мобилности наставника, студената и ненаставног особља.

У току 2021. 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. Наведени тим се бави претраживањем отворених пројектних позива на

којима Факултет може да учествује на различите начине: са новим пројектним идејама, припремом пројектнтих апликација, укључивањем студената у пројектне активности, као и организацијом допунских тренинга и едукација за припрему пројектних пријава. На основу активности наведеног тима, делом, задржан је број међународних пројеката на нивоу стања из претходних година..

У области сарадње са привредом, у 2021. години настављен је позитиван тренд. Пре три године урађена су свега два пројекта ове врсте. Већ 2020. реализовано је укупно 7 таквих пројеката, док је у току 2021. године евидентирано 12 оваквих пројеката. Ово су више него охрабрујући резултати. Осетан пораст броја пројеката, који се остварују у сарадњи с привредом, могуће је приписати формирању посебног тела - Савета послодаваца Техничког факултета у Бору (јануар, 2020). 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. Чланови Савета послодаваца су у својој каријери обављали послове на високим менаџерским позицијама или их тренутно обављају у компанијама, предузећима и институцијама које су значајни представници привредних и друштвених субјеката у нашем региону. Уз помоћ нааведеног тела, постоји и могућност даљег пораста броја пројеката по основу сарадње са привредом у наредном периоду.

Број саопштења на скуповима, како домаћим тако и страним, осетно се смањио понајвише због утицаја светске здравствене кризе. Велики број скупова је одложен или отказан, што је довело до тога да у условима отежавајућих околности није било могуће изложити већи број резултата ове врсте. На међународним скуповима је, не случајно, остварено знатно мање резултата у односу на претходне године када је реч о резултатима НИР-а из категорије М30. Број објављених резултата на научним скуповима, у категорији М30, кретао се на следећи начин: 161 (2012), 174 (2013), 165 (2014), 191 (2015), 158 (2016), 175 (2017), 120 (2018), 120 (2019) и 85 (2020). Приметно је да је две године уочи избијања кризе, 2018. и 2019. године, већ за трећину било мање саопштења на међународним скуповима (Табела 2). Прошле године је овај број спао на 83 (Табела 1).

Скоро идентичан силазни тренд је забележен када су у питању националне научне конференције. Број објављених резултата на националним научним скуповима, у категорији М60, кретао се на следећи начин: 70 (2012), 44 (2013), 32 (2014), 33 (2015), 6 (2016), 24 (2017), 20 (2018), 16 (2019) и 2 (2020). Прошле године је, ипак, објављено 18 саопштења на домаћим конференцијама (Табела 1). Могло би се очекивати да се број саопштења на домаћим конференцијама неће повећавати због незнатног вредновања резултата ове врсте код избора за наставна и истраживачка звања, с једне, и због све учесталијег прерастања националних у интернационалне конференције, с друге стране.

Током друге кризне, 2021. године, остварен је значајан пораст цитираности радова наставника и сарадника Техничког факултета у Бору. Тиме се само наставља раније испољен тренд континуираног повећање броја цитираних радова, као и укупног броја цитата на JCR 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 цитирана 318 пута (2014), 157 радова цитираних 371 пут (2015), 202 рада цитирана 474 пута (2016), 221 рад цитиран 540 пута (2017), 222 рада цитирана 643 пута (2018), 281 рада цитирана 834 пута (2019) и 94 рада је цитирано 973 (2020).

У току 2021. године остварена је највећа цитираност на годишњем нивоу: 370 радова је цитирано 1382 пута. Највише радова (141), са 560 цитата, објавили су наставници и сарадници са одсека Инжењерски менаџмент, које прати Технолошко инжењерство са 102 рада и 474 остварена цитата. На одсецима Металуршко и Рударско инжењерство остварени су приближно исти резултати: 65 и 62 рада са 161 и 187 цитата, редоследно. Треба поменути да високој цитираности посебно доприносе неколико наставника који остварују на десетине, па и стотине цитата (на пример; проф, др Милан Антонијевић, проф. др. Драгиша Станујкић, проф. др Н. Штрбац, проф. др Иван Михајловић и други).

Наведени подаци потврђују чињеницу да растућа цитираност не проистиче из повећаног укупног броја радова објављених у часописима категорије М20. Постигнуту високу цитираност могуће је објаснити и повећањем удела објављених радова у најпрестижнијим часописима, категорије М21а и М21, као и кумулативним ефектом, односно протоком времена, чиме се повећавају изгледи да раније објављени радови постигну високу цитираност.

Иначе, радови у часописима категорије М21а, М21, М22 и М23, које су током 2021. године објавили запослени на Техничком факултету у Бору, припадају тардиционалним научним областима, у којима се обављају истраживања на нашем Факултету: *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; Chemistry and Chemical Engineering, Environmental Studies, Environmental Sciences, Ecology; Mathematics, Mathematics Applied.*

Током 2021. 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. Факулет 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 2021. године, и овај часопис је редовно публикован, према планираној динамици.

Током 2021. године Технички факултет у Бору је учествовао у организацији три научна скупа, упркос чињеници да је сама организација била отежана услед појаве пандемије Ковид 19, која је наступила на глобалном нивоу, пре термина предвиђених за реализацију планираних активности:

- 17th *International May Conference on Strategic Management* (IMCSM 2020), Бор, 28-30. мај 2021. године - ова конференција је организивана у „онлајн" формату коришћењем ZOOM платформе;
- 52nd *International October Conference on Mining and Metallurgy*, Бор, 29-30. новембар, 2021. године (конференција је организивана у „онлајн" формату коришћењем ZOOM платформе);
- 14th *International Mineral Processing and Recycling Conference* (IMPRC), Београд, 12-14- мај 2021. године - ова конференција је одржана по „хибридном" моделу, то тест, комбиновањем традиционалних метода излагања у „онлајн" формату коришћењем ZOOM платформе за учеснике, пре свега, из иностранства.

Прошле године, због проблема са пандемијом Ковид 19, изостала је традиционална конференција *Ecological Truth and Environmental Research* (EcoTER), коју Технички факултет у Бору организује у сарадњи са Заводом за заштиту здравља у Зајечару и Друштвом младих истраживача. Овај скуп ће се у 2022. години одржати у Сокобањи.

У оквиру скупа ИМКСМ 2021 организован је студентски симпозијум: 16. Студентски симпозијум о стратегијском менаџменту.

Током 2021. године, упркос пандемији и ванредном стању у нашој земљи и иностранству, настављена је сарадња са многобројним организацијама из земље и иностранства. Потписани су билатерални споразуми и уговори о пословно-техничкој сарадњи са релевантним високошколским организацијама, научним институтима и другим установама из сродних области из Србије и иностранства.

Сходно условима током 2021. године, настављене су и активности у оквиру академских мрежа у којима је ТФ Бор активан партнер: MET-NET мрежа, CESAER мрежа, Resita Network, EURAXESS мрежа, Српска национална мрежа технолошких брокера. Такође, и у околностима изазваним пандемојом, кроз међународне пројекте, студијске боравке наших истраживача у иностранству, посете страних делегација, сарадње код публикације часописа и скупова које Факултет организује, остварени су даљи значајни контакти са академским и научним институцијама, са циљем развоја

постојећих и осмишљавању нових активности у правцу будућих пројектних апликација и међународне размене студената и наставног особља.

На отворени позив ЕРАСМУС+ програма у 2021. години су пријављени нови пројекти мобилности са универзитетима из више земаља: почев од Финске, преко Мађарске, Аустрије, Грузије и Румуније, до Босне и Херцеговине. У реализацији овог програма мобилности учествоваће: (1) Obuda University, Keleti Faculty of Business and Management (Budapest); (2) University of Eastern Finland, School of Forest Science (Joensuu); (3) Business and Technology University, Department of Business Administration - Finance (Tbilisi); (4) Transilvania University of Brasov, Faculty of Technological Engineering and Industrial Management (Brasov); (5) University of Tuzla, Faculty of Technology (Tuzla); (6) Politehnica University of Timiş oara, MMUT - Mechanical Machines, Equipment and Transportation (Timiş oara); (7) University of Leoben, Mineral Resources Engineering Department (Leoben)..

За већину наведених институција прихваћене су мобилности студената и наставника, које ће се реализвати током 2022. године, према уговорима који се припремају на нивоу Универзитета.

И током 2021. године, у периоду јануар – март, организоване су посете тима за промоцију Факултета свим средњим школама у Бору, као и бројним средњим школама у ширем региону. Промоција је реализована и путем интернета, друштвених мрежа, штампаних и електронских медија.

Акције везане за промоцију и популаризацију науке код младих настављене су током 2021. године, наравно у оквиру поштовања прописаних мера предострожности. У оквиру тога, Технички факултет у Бору је узео учешћа у манифестацији „Тимочки научни торнадо“ који је организован виртуелно, преко интернета, као и у великом броју додатних активности, организиваних махом посредством савремених информационо-комуникационих технологија, као и преко електронских и штамапних 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 2021. године били сасвим задовољавајући. Треба имати у виду сецифичне околности и неупоредиво теже услове за сам научно-истраживачки рад услед светске здравствене кризе. Могло би се очекивати да ће 2022. година, уз јењавање здравствене кризе, донети још боље резултате научноистраживачког рада на Техничком факултету у Бору; посебно када се ради о резултатима највиших категорија.

у Бору, 14. 6. 2022. године

Подносилац извештаја

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проф. др Милован Вуковић

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

Тип резултата / категорија према МПНТР	Број остварених резултата
M13 + M14	2 + 2
M21a	9
M21	18
M22	14
M23	32
M24	2
M29a	4
M29b	1
M29v	2
M31	2
M32	1
M33	73
M34	8
M36	4
M51	13
M52	5
M53	3
M55	1
M61	1
M63 + M64	5 + 13
TF10	2
TFP1	2
TFP2	1
TFP3	`14

Остварени резултати НИР-а у 2021. години

M13 - 2

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Прилог 2.

ПРЕГЛЕД ЦИТИРАНОСТИ ИСТРАЖИВАЧА СА ТФ У БОРУ У 2021. ГОДИНИ.

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

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Прилог 2.3. Цитираност радова истраживача са одскека Технолошко инжењерство

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Прилог 3.

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

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

У току 2021. године Министарство просвете, науке и технолошког развоја наставило је са праксом институцијалног финасирања научноистраживачког рада уместо дугогодишње праксе финасирања по пројектном принципу. 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 2021. години (бр. 451-03-9/2021-14/200131) од 16. јануара 2021. године.

У наставку извештаја је приложен списак истраживача који су у току 2021. године били ангажовани на пројектним активностима које је фиансирало 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	Дарко	Коцев	Доцент	Универзитет у Београду, Технички факултет у Бору
7	Зоран	Стевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
8	Драгослав	Гусковић	Редовни професор	Универзитет у Београду,

				Технички факултет у Бору
9	Марија	Петровић-Михајловић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
10	Саша	Калиновић	Асистент	Универзитет у Београду, Технички факултет у Бору
11	Ана	Радојевић	Доцент	Универзитет у Београду, Технички факултет у Бору
12	Милан	Антонијевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
13	Чедомир	Малуцков	Редовни професор	Универзитет у Београду, Технички факултет у Бору
14	Урош	Стаменковић	Доцент	Универзитет у Београду, Технички факултет у Бору
15	Миодраг	Жикић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
16	Павле	Стојковић	Асистент	Универзитет у Београду, Технички факултет у Бору
17	Јелена	Милосављевић	Асистент	Универзитет у Београду, Технички факултет у Бору
18	Јовица	Соколовић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
19	Исидора	Милошевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
20	Весна	Грекуловић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
21	Драгиша	Станујкић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
22	Предраг	Ђорђевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
23	Иван	Михајловић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
24	Милица	Арсић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
25	Дејан	Таникић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
26	Срба	Младеновић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору

27	Милан	Трумић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
28	Драган	Манасијевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
29	Снежана	Урошевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
30	Јелена	Калиновић	Асистент	Универзитет у Београду, Технички факултет у Бору
31	Снежана	Шербула	Редовни професор	Универзитет у Београду, Технички факултет у Бору
32	Зоран	Штирбановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
33	Милан	Горгиевски	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
34	Ивана	Марковић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
35	Ненад	Вушовић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
36	Данијела	Воза	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
37	Миодраг	Бањешевић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
38	Тања	Калиновић	Доцент	Универзитет у Београду, Технички факултет у Бору
39	Иван	Јовановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
40	Дејан	Богдановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
41	Драгана	Медић	Асистент	Универзитет у Београду, Технички факултет у Бору
42	Витомир	Милић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
43	Јасмина	Петровић	Асистент	Универзитет у Београду, Технички факултет у Бору
44	Саша	Марјановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
45	Ивана	Станишев	Доцент	Универзитет у Београду,

				Технички факултет у Бору
46	Милован	Вуковић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
47	Радоје	Пантовић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
48	Снежана	Милић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
49	Слађана	Алагић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
50	Јелена	Вељковић-Ђоковић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
51	Ана	Симоновић	Доцент	Универзитет у Београду, Технички факултет у Бору
52	Жаклина	Тасић	Доцент	Универзитет у Београду, Технички факултет у Бору
53	Мира	Цоцић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
54	Маја	Трумић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
55	Дејан	Петровић	Доцент	Универзитет у Београду, Технички факултет у Бору
56	Нада	Штрбац	Редовни професор	Универзитет у Београду, Технички факултет у Бору
57	Ђорђе	Николић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
58	Светлана	Иванов	Редовни професор	Универзитет у Београду, Технички факултет у Бору
59	Грозданка	Богдановић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
60	Ивана	Ђоловић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
61	Саша	Стојадиновић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
62	Кристина	Божиновић	Асистент	Универзитет у Београду, Технички факултет у Бору

Прилог 4.

СПИСАК МЕЂУНАРОДНИХ ПРОЈЕКАТА НА КОЈИМА СУ 2021. ГОДИНЕ УЧЕСТВОВАЛИ ИСТАЖИВАЧИ СА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ

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1. **IPA projekat: Academic Environmental Protection Studies on surface water quality in significant cross-border nature reservation Djerdap / Iron Gate national park and Carska Bara special nature reserve, with population awareness reising woorkshops, 2019 – 2021.**

   Institucije učesnice na projektu: University Politechnica Timisoara, Romanija; Univerzitet u Beogradu, Tehnički fakultet u Boru

   Rukovodioci projekta sa Tehničkog fakulteta u Boru: prof. dr Nada Štrbac, prof. dr Milan Antonijević

   Saradnici sa Tehničkog Fakulteta u Boru: Prof. dr Milan Trumić, Prof. dr Grozdanka Bogdanović, Prof. dr Ljubiša Andrić, prof. dr Maja Trumić, doc. dr Žaklina Tasić, asistent Boban Spalović, Vukosav Antonijević, Dobrinka Trujić.

   Vrsta projekta: Projekat podržan od strane Eevropske Unije, u okviru programa prekogranične saradnje Srbije i Rumunije Interreg – IPA CBC.

2. **COST program – projekat: Rural NEET Youth Network: Modeling the risks underlying rural NEETs social exclusion (2019 – 2021)**

   Institucije učesnice na projektu: Mreža Evropskih univerziteta i instituta, uključujući i Tehnički fakultet u Boru, Univerzitet u Beogradu

   Rukovodioci projekta: Prof. Dr Francisco Simoes, University Institute Lisbon

   Saradnici sa Tehničkog Fakulteta u Boru: Prof. Dr Ivan Mihajlović, doc. dr Ivica Nikolić; asistent Anđelka Stojanović

   Vrsta projekta: Internacionalni istraživački projekat u okviru međunarodne COST akcije, CA18213.

3. **COST program – projekat: From Sharing to Caring: Examining Socio-Technical Aspects of the Collabortive Economy (2019 – 2021)**

   Institucije učesnice na projektu: Mreža Evropskih univerziteta i instituta, uključujući i Tehnički fakultet u Boru, Univerzitet u Beogradu i Univerzitet u Kragujevcu, Fakultet za hotelijerstvo i turizam u Vrnjačkoj Banji (iz Srbije)

   Rukovodioc projekta: Gabriela Avram, University of Limerick, Ireland

Saradnici sa Tehničkog Fakulteta u Boru: Prof. dr Aleksandra Fedajev, doc. dr Sanela Arsić; doc. dr Marija Panić

Vrsta projekta: Internacionalni istraživački projekat u okviru međunarodne COST akcije, CA16121.

4. **COST program – projekat: Indor Air Pollution Network (2019 – 2021)**

   Institucije učesnice na projektu: Mreža Evropskih univerziteta i instituta, uključujući i Tehnički fakultet u Boru

   Rukovodioc projekta: Dr Nikola Carslaw, University of York, United Kingdom

   Saradnici sa Tehničkog Fakulteta u Boru: Prof. dr Milica Veličković

   Vrsta projekta: Internacionalni istraživački projekat u okviru međunarodne COST akcije, CA17136.

5. **Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja u okviru programa "ERASMUS + ključne akcije 1 mobilnost studenata, nastavnog i nenastavnog osoblja: Key Action 1-Mobility for learners and Staff Mobility– Higher Education Student and Staff Mobility", 2019.-2021 (University of eastern Finland, Joensuu, Finska).**

   Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Joensuu Campus, Scool of Forest Sciences University of Eastern Finland (Finska)

   Koordinatori projekta: prof. Jyrki Kangas, mr. Markku Ropo i ms. Kirsi Karjaianen, University of Eastern Finland (Finska) i prof.dr Ivan Mihajlović (TF Bor)

   Učesnici u aktivnostima mobilnosti sa Tehničkog Fakulteta u Boru, u periodu realizacije projekta: prof. dr Sanela Arsić

   Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

   U toku 2021. godine, zbog dobro poznatih razloga (pandemija Kovod 19), nije bilo uslova za realizaciju planirane mobilnosti studenata, nastavnog i nenastavnog osoblja.

6. **Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja u okviru programa "ERASMUS + ključne akcije 1 mobilnost studenata, nastavnog i nenastavnog osoblja: Key Action 1-Mobility for learners and Staff Mobility– Higher Education Student and Staff Mobility", 2017.-2021 (Transylvania University, Brašov, Rumunija).**

   Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Transylvania University in Brasov (Rumunija).

   Koordinatori projekta: dr Luminita Parv (Rumunija) i prof. dr Ivan Mihajlović (Srbija)

Učesnici u aktivnostima mobilnosti sa Tehničkog Fakulteta u Boru, u periodu realizacije projekta: Enisa Nikolić, Milica Niculović

Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

U toku 2021. godine, zbog dobro poznatih razloga (pandemija Kovod 19), nije bilo uslova za realizaciju planirane mobilnosti studenata, nastavnog i nenastavnog osoblja.

7. Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja u okviru programa ERASMUS +

U toku 2021. godine ugovorene su nove mobilnosti koje će se realizovati u 2022. godine. U realizaciji predstojećeg programa mobilnosti uključene su i sledeće visokoškolske ustanove:

1. Obuda University, Keleti Faculty of Business and Management, Budapest, Hungary;
2. Business and Technology University, Department of Business Administration (Finance), Tbilisi, Georgia;
3. University of Tuzla, Faculty of Technology, Tuzla, Bosnia and Herzegovina;
4. Politehnica University of Timișoara, MMUT - Mechanical Machines, Equipment and Transportation, Timișoara, Romania;
5. University of Leoben, Mineral Resources Engineering Department, Leoben Austria.

8. Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja u okviru programa ”CEEPUS mreže” 2021. godine (University of Economics in Katowice, Faculty of Economics).

Prof. dr Aleksandra fedajev, nastavnik Tehničkog fakulteta uz Boru, održala je u okviru CEEPUS mreže održala predavanja pod nazivom *Comparative analysis of selected companies using the ratio analysis and PROMETHEE method* za tri grupe studenata na Ekonomskom fakultetu Univerziteta u Katovicama (University of Economics in Katowice, Faculty of Economics).

Mobilnost je zbog epidemiološke situacije održana u onlajn formatu u periodu od 23. aprila do 30. aprila 2021. godine.

Naziv mreže: PL-0056-17-2122 - Regional Development Network (REDENE)

Koordinator: Prof. Krystian Heffner University of Economics in Katowice, Faculty of Economics

Učesnici: 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.

Prilog 5.

SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2021. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti, studije, elaborati

1. Tehnički rudarski projekat rekonstrukcije primarnog drobljenja na površinskom kopu Krš kod Ljubovije.

2. Tehnička kontrola Dopunskog rudarskog projekta za izgradnju flotacije topioničke šljake sa izradom izveštaja o izvršenoj tehničkoj kontroli.

3. Analiza rezultata ispitivanja mlevenja i flotiranja uzoraka rude bakra za naručioce MMBT Srbija i Minefill Services USA.

4. Tehnička kontrola Dopunskog rudarskog projekta otkopavanja i pripreme otkopavanja i pripreme krečnjaka na kamenolomu „Krivelj“, Knjiga 2.3. Tehnički projekat pogona za pripremu krečnjaka.

5. Tehnička kontrola Dopunskog rudarskog projekta otkopavanja i pripreme otkopavanja i pripreme krečnog kamena u ležištu „Zagrađe-5”, Knjiga 2.4, Tehnički projekat pripreme krečnog kamena, Sveska 2. Tehničko-tehnološki projekat.

6.Tehnički rudarski projekat prevoza i ljudi postojećim transporterom sa gumenom trakom u glavnom transportnom niskopu od K-21m do K-235m u Jami Bor; Investitor projekta: Serbia ZiJin Copper d.o.o. Bor.

7. Техничка контрола Техничког рударскогпројекта израде вентилационог окна НВО-1 у борској Јами-лежишту руде бакра "Борска Река" ,Технички факултет у Бор, Бор 2021; Инвеститор Serbia ZiJin Copper

8. Техничка контрола Техничког рударскогпројекта израде вентилационог окна НВО-2 у борској Јами-лежишту руде бакра "Борска Река",В. Технички факултет у Бор, Бор 2021; Инвеститор Serbia ZiJin Copper

9. Техничка контрола Техничког рударскогпројекта израде вентилационог окна НВО-3 у борској Јами-лежишту руде бакра "Борска Река" , Технички факултет у Бор, Бор 2021; Инвеститор Serbia ZiJin Copper

10. Техничка контрола Техничког рударскогпројекта израде сервисног окна НСО у борској Јами-лежишту руде бакра "Борска Река", Технички факултет у Бор, Бор 2021; Инвеститор Serbia ZiJin Copper

11. Техничка контрола Техничког рударског пројекта израде прве фазеизвозног нископа у борској Јами-лежишту руде бакра "Борска Река", Технички факултет у Бор, Бор 2021; Инвеститор Serbia ZiJin Copper

12. Техничка контрола Техничког рударског пројекта израде вентилационог окна ВО-3 лежишта бакра и злата"Чукару Пеки" ,Технички факултет у Бор, Бор 2021. Serbia ZiJin Mining

Prilog 6.

OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2021. GODINI

1. Izdavanje časopisa

U okviru svoje dugogodišnje tradicije publikovanja naučno-istraživačkih rezultata, Tehnički fakultet u Boru izdaje četiri naučna časopisa: *Journal of Mining and Metallurgy, Section A: Mining* (JMM-A), koji se štampa kao nacionalni časopis; *Journal of Mining and Metallurgy, Section B: Metallurgy* (JMM-B) (štampa se od 1997. godine kao međunarodni časopis sa internacionalnim uređivačkim odborom), *Serbian Journal of Management* (SJM) (štampa se od 2006. godine kao međunarodni časopis sa internacionalnim uređivačkim odborom) i *Reciklaža i održivi razvoj* (ROR) (štampa se od 2008. godine kao nacionalni časopis). Svi časopisi, finansirani su od strane MPNTR RS.

Podaci o aktuelnom pozicioniranju časopisa koje publikuje TF Bor tokom prethodne godine (prema http://kobson.nb.rs/nauka_u_srbiji/kategorizacija_casopisa_.33.html):

- **Journal of Mining and Metallurgy, Section A: Mining (JMM-A)**, svrstan je u kategoriju **M51** (prema kategorizaciji domaćih naučnih časopisa u oblasti energetike, rudarstva i energetske efikasnosti za 2021. godinu).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, svrstan je u kategoriju **M23,** sa IF(2020)=1,382 (prema kategorizaciji naučnih časopisa u oblasti Metallurgy & Metallurgical Engineering, za 2021. godinu). Kao i sa petogodišnjim IF=1,260 i mestom 51/80 u pomenutoj oblasti.
- **Serbian Journal of Management (SJM)**, svrstan je u kategoriju **M24** (prema kategorizaciji domaćih naučnih časopisa u oblasti ekonomije i organizacionih nauka za 2021. godinu). Časopis je takođe rangiran na SJR listi s vrednošću IF = 0.224 za prošlu godinu, odnosno ima kategorizaciju Q3 u bazi SCImago.
- **Recycling and Sustainable Development (RSD)**, svrstan je u kategoriju **M51** (prema kategorizaciji domaćih naučnih časopisa u oblasti materijala i hemijskih tehnologija, domaćih naučnih časopisa za uređenje, zaštitu i korišćenje voda, zemljišta i vazduha kao i domaćih naučnih časopisa u oblasti energetike, rudarstva i energetske efikasnosti za 2021. godinu).

Od 2016. godine Tehnički fakultet izdaje i studentski časopis **Engineering Management.**

2. Organizacija i suorganizacija naučnih skupova

I pored globalne zdravstvene krize, izazvane pandemijom, tokom 2021. godine, Fakultet je organizovao, ili učestvovao u organizaciji, sledećih naučnih skupova:

(1) 17th International May Conference on Strategic Management (IMCSM 2020), Бор, 28-30. мај 2021. године - ова конференција је организивана у „онлајн" формату коришћењем ZOOM платформе;

(2) 52nd International October Conference on Mining and Metallurgy, Бор, 29-30. новембар, 2021. године (конференција је организивана у „онлајн" формату коришћењем ZOOM платформе);

(3) 14th International Mineral Processing and Recycling Conference (IMPRC), Београд, 12-14. мај 2021. године - ова конференција је одржана по „хибридном" моделу, то тест, комбиновањем традиционалних метода излагања у „онлајн" формату коришћењем ZOOM платформе за учеснике, пре свега, из иностранства.

3. Potpisani sporazumi o bilateralnoj saradnji sa fakultetima i institucijama iz inostranstva, kao i trenutno važeći sporazumi potpisani u prethodnom periodu

- Alma Mater Europaea (AME), International university based in Salzburg, Austria (2020-2030)
- Maulana Azad National Institute of Technology, Bhopal, India (2020-2025)
- Ekonomski fakultet Univerziteta u Zenici, Bosna i Hercegovina (2019-2024)
- Chemical Department, Buryat State University from Ulan-Ude, Russia (2018-2023)
- Ekonomski fakultet Univerziteta u Zenici, Bosna i Hercegovina (2018-2023)
- Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria (2018-2023)
- Faculty of Economic Sciences and Law, University of Pitesti, Romania (2018-2023)
- Faculty of Economy, University of Tirana, Albania (2018-2023)
- Faculty of Engineering and Management, University „Eftimie Murgu", Resita, Romania (2018-2023)
- Faculty of Mechanics and Technology, Rzeszow University of Technology, Poland (2018-2023)
- Metalurški fakultet u Sisku Sveučilišta u Zagrebu, Hrvatska (2018-2023)
- Faculty of Mines, University of Mining and Geology „St. Ivan Rilski", Sofia, Bulgaria (2018-2023)
- Faculty of natural and technical sciences, University „Goce Delčev" of Štip, Macedonia (2018-2023)
- Metalurško-tehnološki fakultet u Podgorici Univerziteta Crne Gore, Crna Gora (2018-2023)
- Mineral Deposit Research Unit at the University of British Columbia, Canada (2018-2023)
- Rudarski fakultet u Prijedoru Univerziteta u Banja Luki, RS - Bosna i Hercegovina (2018-2023)
- Rudarsko-geološko-građevinski fakultet Univerziteta u Tuzli, Bosna i Hercegovina (2018-2023)
- Tehnološki fakultet u Banjoj Luci Univerziteta u Banja Luci, RS - Bosna i Hercegovina (2018-2023)
- Tehnološki fakultet u Zvorniku Univerziteta u Istočnom Sarajevu, Republika Srpska – Bosna i Hercegovina (2018-2023)

- University American College Skopje, Macedonia (2018-2023)
- Tehnološki fakultet u Banjoj Luci; Univerzitet u Banjoj Luci, Bosna i Hercegovina (2018-2023)
- West University of Timisoara, Faculty of economics and business administration, Romania (2018-2021)
- Physico-Technical Department, Buryat State University from Ulan-Ude, Russia (2017-2022)
- University of Ruse, Faculty of Business and Management (2017–2022)
- Faculty of Business and Management, University of Ruse, Ruse, Bulgaria (2017-2022)
- Institut za crnu metalurgiju a.d. – Nikšić, Crna Gora (2017-2022)
- Institute of Geotechnics of Slovak Academy of Sciences, Slovakia (2017-2022)
- Metalurško-tehnološki fakultet Univerziteta u Zenici, Bosna i Hercegovina (2017-2022)
- Faculty of International Resource Sciences, Akita University, Japan (2017-2022)
- China University of Petroleum, Beijing, China (2017-2022)
- Faculty of Metallurgy, Technical University of Košice, Slovakia (2017-2022)
- The Faculty of Electronics of National Technical University of Ukraine „Kiev Polytehnic Institute", Ukraine (2016-2021)
- Faculty of Technological Engineering and Industrial Management, Transilvania University of Brasov, Romania (2016-2021)
- Faculty of Mechanical and Safety Engineering, University OBUDAI, Budapest, Hungary (2016-2021)
- Saobraćajni fakultet u Doboju Univerziteta u Istočnom Sarajevu, Republika Srpska – Bosna i Hercegovina (2016 – bez ograničenja trajanja)
- Univerzitet „Sv. Kiril i Metodij", Tehnološko metalurški fakultet, Skopje, Makedonija (2015 – bez ograničenja trajanja)
- Federal State Budget Educational Institution of Higher Education; Moscow State University of Civil Engineering (2021-2016)
- Tehnološki fakultet u Tuzli Univerziteta u Tuzli, Federacija BiH - Bosna i Hercegovina (2021 – bez ograničenja trajanja)
- Faculty of Science and Forestry; University of Eastern Finland (2020-2024)
- Rudarski institut, Skoplje (2021-2022)

4. Potpisani sporazumi o bilateralnoj saradnji sa fakultetima, školama i institutima iz Srbije, kao i trenutno važeći sporazumi potpisani u pretodnom periodu

- Udruženje za upravljanje projektima Srbije – IPMA Srbija, Beograd, Srbija (2019-2024)
- Tehnička škola Bor, Bor, Srbija (2020-2021)
- Fakultet tehničkih nauka u Kosovskoj Mitrovici, Univerziteta u Prištini (2018-2023)
- Fakultet tehničkih nauka u Novom Sadu, Univerziteta u Novom Sadu (2018-2023)
- Institut za hemiju, tehnologiju i metalurgiju u Beogradu, Univerziteta u Beogradu (2018-2023)
- Institut za nuklearne nauke „Vinča", Univerziteta u Beogradu (2018-2023)
- Institut za rudarstvo i metalurgiju u Boru (2018-2023)
- Institut za tehnologiju nuklearnih i drugih mineralnih sirovina, Beograd (2018-2023)
- Istraživačko-razvojni institut Lola, Beograd (2018-2023)
- Rudarsko geološki fakultet u Beogradu, Univerziteta u Beogradu (2018-2023)
- Tehnološki fakultet u Novom Sadu, Univerziteta u Novom Sadu (2018-2023)

- Tehnološki fakultet u Leskovcu, Univerziteta u Nišu (2018-2023)
- Tehnološko – metalurški fakultet u Beogradu, Univerziteta u Beogradu (2018-2023)
- Mašinski fakultet u Nišu, Univerzitet u Nišu, Niš (2017-2022)
- Fakultet za hotelijerstvo i turizam u Vrnjačkoj banji, Univerziteta u Kragujevcu (2017-2022)
- Tehnička škola u Boru (2021-2022)
- Fakultet tehničkih nauka u Čačku; Univerzitet u Kragujevcu (2021 – bez ograničenja trajanja)

5. Potpisani sporazumi o bilateralnoj saradnji sa kompanijama i preduzećima iz Srbije, kao i trenutno važeći sporazumi potpisani u pretodnom periodu

- Kompanija ZiJin Bor Copper DOO Bor (2020-2021)
- HBIS GROUP Serbia Iron & Steal d.o.o. Beograd, ogranak Smederevo
- Kromberg & Schubert Serbia, (2020 – bez vremenskog ograničenja)
- Kompanija „Elixir Prahovo“ Industrija hemijskih proizvoda DOO Prahovo (2018 – bez ograničenja trajanja)
- Credit Agricole Srbija, Novi Sad (2017 – bez ograničenja trajanja)
- Javno preduzeće za izgradnju i eksploataciju regionalnog vodosistema „Bogovina“ (2016 – bez ograničenja trajanja)
- JKP „Toplana“ Bor (2016 – bez ograničenja trajanja)
- Narodna biblioteka Bor (2016 – bez ograničenja trajanja)
- Narodni muzej Zaječar (2016 – bez ograničenja trajanja)
- Muzej rudarstva i metalurgije Bor (2016 – bez ograničenja trajanja)
- J.P. „Borski turistički centar“ (2016 – bez ograničenja trajanja)
- JKP„3. oktobar“ Bor (2016 – bez ograničenja trajanja)
- AlGold Processing doo, Beograd (2021 – bez ograničenja trajanja)

6. Učešće u akademskim i drugim mrežama; Mobilnost studenata i nastavnog kadra

a. Associated Phase Diagram and Thermodynamics Committee

Još od 1999. godine, nastavnici i saradnici TF Bor aktivno učestvuju u radu ove naučne organizacije, koja okuplja naučnike iz oblasti termodinamike i proračuna faznih dijagrama. Pored naših naučnika, u ovom komitetu su i istraživači iz Poljske (AGH Krakov, Institut za proučavanje materijala pri Poljskoj akademiji nauka Krakov), Češke (Masarikov Univerzitet Brno i Institut za fiziku iz Brna), Slovačke (Fakultet za metalurgiju i materijale iz Košica), Mađarske (Metalurški fakultet Univerziteta u Miškolcu), Rumunije (Institut za fizičku hemiju Bukurešt), Bugarske (Departman za hemiju Univerziteta u Plovdivu), Slovenije (NTF Ljubljana), Hrvatske (Metalurški fakultet Sisak), BiH (Fakultet za metalurgiju i materijale Zenica).

b. Resita Network on Entrepreneurship and Innovation

Od 2008. godine, Tehnički fakultet u Boru je, kao predstavnik Univerziteta u Beogradu, član Resita Network on Entreprenurship and Innovation, u čijem sastavu su i sledeći univerziteti: 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. Iako je projekat DAAD, u okviru koga je formirana ova mreža okončan, mreža i dalje funkcioniše u smislu zajedničkih istraživačkih projekata. Tokom 2021. godine realizovane su aktivnosti zajedničkih publikacija naučno istraživačkih radova studenata doktorskih studeija, nastalih na osnovu rezultata ostvarenih tokom istraživanja u okviru ove mreže, iz oblasti propaadanja malih i srednjih preduzeća i korporativne društvene odgovornosti.

c. MET-NET mreža

Od 2008. godine, TF Bor je član MET-NET mreže metalurških fakulteta, čije su članice svi metalurški fakulteti iz regiona – Slovenije, Hrvatske, BiH, Crne Gore, Makedonije, Slovačke, a očekuje se i širenje mreže članovima iz Poljske, Grčke, Bugarske, Rumunije, Turske, Albanije.

d. EURAXESS Services mreža

Potpisivanjem Deklaracije o privrženosti EURAXESS Service mreži i Deklaracije o privrženosti održavanju EURAXESS Jobs portal-a, TF Bor je još od 2010. godine postao deo Nacionalne EURAXESS mreže (www.euraxess.rs) koja brine o mobilnosti istraživača i time je omogućen pristup otvorenim pozivima i istraživanjima u okviru navedene mreže.

e. Nacionalna mreža tehnoloških brokera

U okviru EU programa integrisane podrške inovacijama, razvijena je nacionalna mreža tehnoloških brokera, sa ciljem daljeg unapređenja podrške MSP Sektoru. TF Bor je od 2013. godine deo ove nacionalne mreže, koju čini 11 fakulteta i naučno-istraživačkih institucija iz Srbije.

d. Cesaer Newtowk

Početkom 2020. godine Univerzitet u Beogradu se priključio međunarodnoj akademskom mreži CESAER (https://www.cesaer.org/). Svi fakultetu Unoverziteta u Beogradu, uključujući i Tehnički fakultet u Boru, potpisali su memorandum o saradnji sa institucaijama u okviru ove mreže. Navedena mreža je osnovana 1990. godine i okuplja vodeće evropske univerzitete na kojima se izučavaju tehničko-tehnološke nauke. Uključivanjem u navedenu mrežu, istraživačima sa Tehničkog fakulteta u Boru, otvorena je mogućnost umrežavanja sa kolegama sa drugih institucija – učlanjenih u mrežu, u okviru radnih tela CESAER mreže.

e. SAP University Alince

Tokom 2020. godine, istraživači i studenti Fakulteta su nastavili i aktivnosti u okviru akademske mreže SAP University Alinace, u okviiru koje se sprovodi obuka za korišćenje SAP ERP

programskog paketa i vršilo stručno usavršavanje kroz projektne aktivnosti „SET – SAP „Students' Entrepreneurship Training through SAP“ projekta, realizovanog u okviru poziva „razvoj visokog obrazovanja“ finansiranog od strane Ministarstva prosvete, nauke i tehnološkog razvoja.

g. Mobilnost studenata u okviru programa "ERASMUS +" ključne akcije 1- mobilnost studenata, nastavnog i nenastavnog osoblja i Evropske CEEPUS mreže za mobilnost nastavnika i studenata

Nažalost, tokom marta 2021. godine, desila se globalna kriza izazvana pandemijom COVID 19, usled koje je većina zemalja potpisnica ugovora u okviru ERASMUS+ i CEEPUS programa, uvela vanredno stanje. Samim time, u periodu mart 2021 – septembar 2021 došlo je do obustave mobilnosti u okviru međunarodnih projekata. Početkom septembra 2021. godine, ponovo su pokrenuti pozivi za prijavu mobilnosti studenata, nastavika i nenastavnog osoblja, koje će se realizovati 2022. godine.

Takođe, deo aktovnosti u okviru ERASMUS + projekata i saradnje je realizovan online – putem platformi za online nastavu.

6. <u>Promocija i popularizacija nauke</u>

Promocija Fakulteta, tokom 2021. godine, imajući u vidu opštu zdravstvenu sitauaciju prouzrokovanu COVID 19 pandemijom, organizovana je u specifičnim okolnostima, te se zato razlikuje od aktivnosti promocije organizovanih tokom prethodnih godina. Naime, tokom 2021. godine, zbog nemogućnosti fizičkog odlaska u sve planirane srednje škole, znatno veći akcenat je stavljen na promociju u elektronskim i štampanim medijima, na internetu i na društvenim mrežama. Ipak, nisu izostale posete školama.

Rešenjem Dekana fakulteta, od 14. februara 2021. imenovani su članovi grupe za promociju fakulteta kod učenika srednjih škola (budućih brucoša), u cilju povećanja broja kandidata za upis u školskoj 2021/22. godini. Radnu grupu su činili: prof. dr Ivan Mihajlović (koorinator); prof. dr Đorđe Nikolić; prof. dr Saša Stojadinović, doc. dr Maja Nujkić i doc. dr Aleksandra Mitovski.

Takođe, pre početka pandemije, pokrenuta je i inicijativa za dodatno unapređene marketing aktivnosti Fakulteta. Na sastanku proširenog dekanskog kolegijuma, održanog 30. januara 2020. godine doneta je odluka o formiranju Tima za unapređenje kvaliteta marketinških aktivnosti Fakulteta. Na predlog članova proširenog kolegijuma, u ovaj tim su izabrani: prof. dr Dejan Riznić, koordinator tima; prof. dr Saša Stojadinović, prof. dr Ljubiša Balanović; doc. dr Maja Nujkić i Adrijana Jevtić, saradnik u nastavi. Zadaci ovog tima su: (1) razmatranje štampanog propagandnog materijala koji se koristi u promociji Fakulteta i njegovo unapređenje; (2) razmatranje TV i radio reklame Fakulteta i predlozi za unapređenje; (3) analiza dodatnih mogućnosti promocije i reklame Fakulteta u medijima; (4) predlaganje mera za unapređenje nastupa Tima za promociju Fakulteta u školama; (5) Predlaganje mera za unapređenje nastupa predstavnika Fakulteta na sajmovima obrazovanja. Tim je održavao redovne sastanke i kao savetodavno telo uticao na sadržaj

promotivnog materijala koji je korišćen u daljim marketinškim aktivnostima Fakulteta u toko 2021. godine.

Aktivnosti promocije, koje su realizovane tokom 2021. godine:

- U tromesečnom periodu (od februara do mart 2021. godine) grupa za promociju Fakulteta je, imajući u vidu razvoj situacije sa pandemijom, intenzivno radila na organizaciji i realizaciji promocije u što većem broju srednjih škola, te su organizovane posete nekim srednjim školama u Boru, kao i onlajn prezentacije u školama u Zaječaru, Nišu i Žagubici. U školama u najbližem okruženju Tehničkog fakulteta u Boru, organizovan je tradicionalni vid promocije posetom učenicima u školama i podelom propagandnog materijala.
- 19. februar 2021. Tehnički fakultet u Boru je priredio, s početkom u 12.00 časova, prezezentacija svoja četiri studijska programa za učenike Tehničke škole u Boru.
- 23. februar 2021. Organizovana je poseta Tehničkoj školi u Nišu, s početkom u 9.30 časova. Učenicima su predstavljeni studijski programi koji su razvijeni na Tehničkom fakultetu u boru, te podeljen informativni materijal. U poseti su bili prof. dr Ivana Mihajlović, prof. dr Saša Stojadinović i doc. dr Uroš Stamenković.
- 3. mart 2021. U terminu od 17 do 18 časova Tehnički fakultet u Boru je organizovao predstavljanje svojih studijskih programa u onlajn formatu za učenike srednjih škola (Gimnazija u Boru i Elektro-mašinska škola).
- 30. mart 2021. Organizovana je prezentacija četiri studijska programa Tehničkog fakulteta u Boru, u terminu od 13 do 14 časova, za učenike Prehrambeno-hemijske škole (Niš).
- April 2021. Pripremljen je kratak promotivni film o Tehničkom fakultetu u Boru. Predstavljena su sva četiri studijska programa sa odgovarajućim modulima. Film je osmislio prof. dr Ivan Mihajlović.
- Povodom 60 godina rada pripremljena je i objavljena monografija o razvoju Tehničkog fakulteta.
- 2021. Reklama o studijskim programima Tehničkog fakulteta u Boru je objavljena u sva četiri broja specijalizovanog časopisa *Tekstilna industrija*. U reklami su predočeni osnovni podaci o Fakultetu kao i informacije za uspostavljanje kontakta sa zainteresovanim kandidate+ima.
- januar - jun 2021. Na talasima lokalnih radio i televizijskih stanica emitovani su reklamni spotovi o Tehničkom fakultetu u Boru. Agencija Korak 21 je uspostavila kontakt sa dvadesetdve RTV medijske kuće koje su emitovale kratke reklamne poruke o Tehničkom fakultetu u Boru. Fakultet se, inače, reklamno oglašavao i u četiri pisana medija, odnosno u Blicu, *Politici*, *Telegrafu* i *Kolektivu*.
- maj - jul 2021. Magazin *NOVA*, koji izlazi u elektronskom formatu, ustupio je svoj prostor za predstavljanje odseka TF za rudarsko, metalurško i tehnološko inženjerstvo.

- Tehnički fakultet je od 2021. godine imao na raspolaganju i portal prijemni.rs, koji pruža mogućnost da se plasiraju sledeći sadržaji: (1) jedan dizajniran mejl, (2) 5 PR obaveštenja, (3) 30 prikaza logotipa na naslovnoj strani sajta, (4) 5 potifikacija u aplikaciji Maturang i (5) 10 dana istaknutog logotipa u aplikaciji Maturrang.
- Imajući u vidu aktuelnu situaciju izazvanu pandemijom, veliki broj aktivnosti promocije Fakulteta je organizovan preko interneta. Fakultet ostvaruje značajno prisustvo na društvenoj mreži *Facebook*. U skladu sa zvaničnim podacima Facebooka vezano za stranicu Tehničkog fakulteta u Boru, zabeleženih krajem 2021. godine:

  • broj korisnika koji prate stranicu Tehničkog fakulteta u Boru kreće se oko 2.500;

  • najveći broj korisnika koji prate objave na stranici su iz Bora, Zaječara, Kladova, Negotina, Jagodine, Leskovca, Nišai Beograda, ali i iz drugih gradova. Objave na stranici konstantno prate i korisnici iz Austrije, Nemačke, SAD, Švedske, Južne Afrike, Francuske, Belgije, Slovačke, Bugarske, Rusije i Švajcarske, te iz bivših jugoslovenskih republika poput Hrvatske, Bosne i Hercegovine i Severne Makedonije. Time se postiže regionalna, ali i međunarodna vidljivost;

  • primetan je dobar odziv na objave koje su postavljene na stranici, u vidu pozitivnih komentara, lajkova, linkovanja na stranicu i ostalih elemenata;

  • nisu zabeleženi slučajevi negativnih odziva na postavljene sadržaje;

  • ostvarena je efikasna i efektivna neposredna komunikacija sa korisnicima na stranici preko inboxa na stranici n akojoj korisnici postavljaju raznovrsna pitanja vezana za delatnost i rad Fakulteta. Na svako pitanje IKTC, u konsultaciji sa rukovodstvom Fakulteta i relevantnim službama, pravovremeno odgovara;

  • maksimalno vreme reakcije na zahtev korisnika na stranici (odgovor u inbox, komentari i slično) iznosi oko 8 sati. Služba IKTC odgovara u bilo kom momentu kada je u mogućnosti po principu 24/7 - 24 casa, 7 dana u nedelji.
- Sledeći aktuelne globalne trendove u pogledu prisutnosti na društvenim mrežama, Tehnički fakultet u Boru ostvaruje prisustvo i na Instagram društvenoj mreži, kako u direktnoj sprezi sa Facebook objavama, tako i putem nezavisnih objava. Trenutno Fakultet ima značajan broj pratilaca ovog naloga sa očekivanjem da se u narednom periodu ovaj broj poveća.

7. Učešće Tehničkog fakulteta u Boru na sajmovima

Imajući u vidu stanje izazvano pandemijom Kovid 19, sajmovi obrazovanja i nauke se nisu organizovali nakon marta 2021. godine. Samim time, TF Bor je u 2021. godini imao manje mogućnosti za predstavljanje na sajmovima obrazovanja. S druge strane, korišćene su prilike za predstavljanje na sajmovima koji su organizovani u onlajn formatu:

8. Studijski boravci ili posete univerzitetetima iz inostranstva

Nažalost, tokom 2021. godine, zbog globalne krize izazvane pandemijom COVID 19, sa većinom zemalja potpisnica ugovora o saradnji, ili predstavnicima institucija sa kojima Fakultet ima tradicionalnu internacionalnu saradnju, nisu se mogle realizovati ranije dogovorene i planirane aktivnosti. Veliki broj međunarodnih konferencija planiranih za 2021. godinu, bio je odložen ili otkazan, ili je organizacija realizovana u onlajn formatu. Tehnički fakultet u Boru, recimo, bio je prinuđen da u 2021. godini izostavi iz svog programa skup EcoTER.

9. Studijski boravci ili posete sa drugih univerziteta iz inostranstva

Imajući u vidu stanje izazvano pandemijom Kovid 19, nij ebilo mogućnosti za realizaciju studijskih boravaka ili posete sa drugih univerziteta.

10. Prezentacije, predavanja i nagrade

Privredna komora Srbije je Tehničkom fakultetu u Boru dodelila jubilarnu nagradu za 60 godina postojanja