

Универзитет у Београду
Технички факултет у Бору
Број: VI/4-19-3
Бор, 18. 02. 2021. године

На основу члана 49. Статута Техничког факултета у Бору и члана 20. став 11. Пословника о раду Наставно-научног већа Техничког факултета у Бору, Наставно научно веће Факултета електронским изјашњавањем до 17. 02. 2021. године, донело је

О Д Л У К У

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2020. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2020. години, саставни је део ове Одлуке.

Доставити:

- председнику Комисије
- продекану за НИР
- архиви
- сајт

**ПРЕДСЕДНИК
НАСТАВНО-НАУЧНОГ ВЕЋА**

ДЕКАН

Проф. др Нада Штрбац

Univerzitet u Beogradu
TEHNIČKI FAKULTET U BORU
Nastavno – naučnom veću

Na osnovu Člana 3. Pravilnika o vrednovanju rezultata naučnog rada nastavnika i saradnika, na Tehničkom fakultetu u Boru, broj VI-4/19-4/2 od 27. 05. 2008. godine, u daljem tekstu **Pravilnik**, Komisija za obezbeđenje i unapređenje kvaliteta, u daljem tekstu **Komisija**, januara i februara meseca 2021. godine, sprovela je postupak vrednovanja rezultata naučno-istraživačkog rada i međunarodne saradnje nastavnika i saradnika, za prethodnu 2020. godinu.

Nakon sprovedenog postupka i obrade dobijenih rezultata Komisija u skladu sa Članom 7. Pravilnika Naučno-nastavnom veću dostavlja sledeći

I Z V E Š T A J
O REZULTATIMA VREDNOVANJA NAUČNOG RADA

1. OPŠTI DEO

Postupak vrednovanja sprovela je Radna grupa Komisije koju su činili:

- Prof. dr Ivan Mihajlović, prodekan za NIR i MS, rukovodilac,
- Prof. dr Saša Stojadinović, član i
- Asis. Uroš Stamenković, član.

Vrednovanje rezultata naučnog rada urađeno je tokom januara i februara meseca 2021. godine, a odnosi se na prethodnu kalendarsku godinu, i njime su bili obuhvaćeni svi nastavnici i saradnici koji su u toj godini bili zaposleni na Fakultetu.

U okviru Komisije za obezbeđenje i unapređenje kvaliteta, prodekan za naučnoistraživački rad i međunarodnu saradnju prof. dr Ivan Mihajlović, prikupio je i obradio potrebne podatke i sačinio **Godišnji izveštaj o rezultatima ostvarenim u naučnoistraživačkom radu i međunarodnoj saradnji za 2020. godinu**, koji je, kao sastavni deo ovog izveštaja, dat u **prilogu 1**.

Vrednovanje se odnosilo na sledeće reference:

- 1.1. Publikovane monografije i drugo (M13-M14)
- 1.2. Publikovani radovi u međunarodnim časopisima sa IF (M21-M23)
- 1.3. Publikovani radovi u međunarodnim časopisima bez IF (M24)
- 1.4. Saopšteni radovi na međunarodnim skupovima (M31-M34)
- 1.5. Nacionalne monografije (M42)
- 1.6. Publikovani radovi u nacionalnim časopisima (M51-M53)
- 1.7. Saopšteni radovi na nacionalnim skupovima (M63-M64)
- 1.8. Odbranjene doktorske disertacije (M71)
- 1.9. Publikovani udžbenici

- 1.10. Citiranost u 2020. godini (prema SCOPUS-u)
- 1.11. Učešće na međunarodnim projektima
- 1.12. Učešće na projektima koje finansira MPNTR RS
- 1.13. Učešće na projektima koje finansira privreda
- 1.14. Organizacija naučnih skupova
- 1.15. Publikovanje časopisa

Kompletan materijal koji se odnosi na ovo vrednovanje predat je arhivi Fakulteta, na dalje čuvanje.

2. POSEBAN DEO

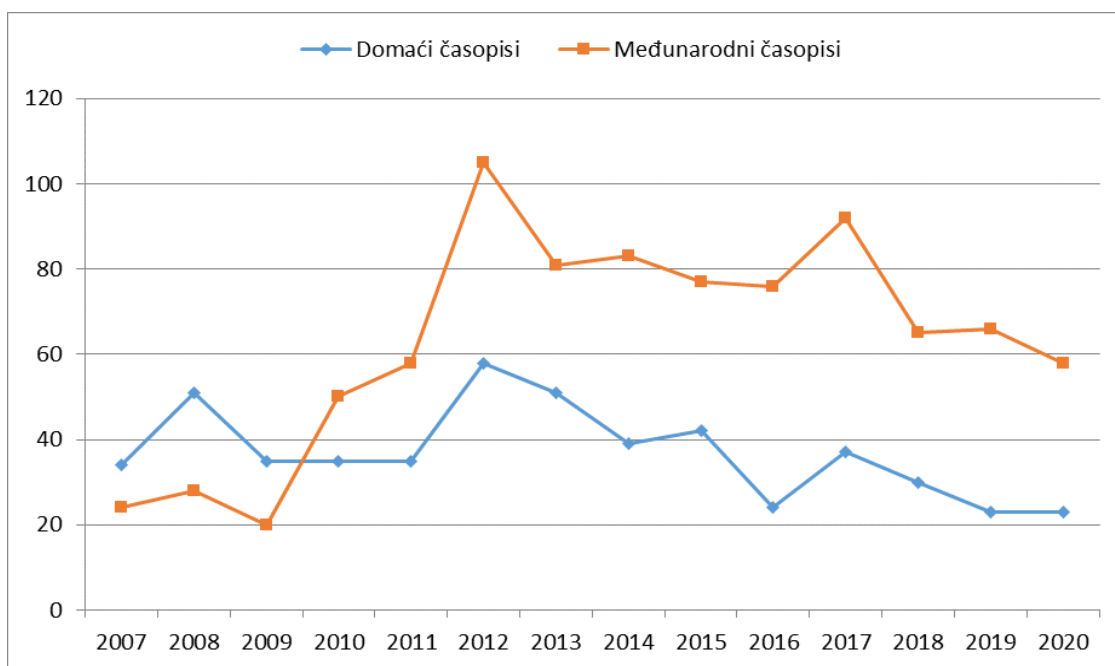
Nakon obrade podataka dobijenih u postupku vrednovanja zbirni prikaz rezultata naučnog rada dat je u **tabeli 1**.

Upoređivanje ostvarenih rezultata za 2020. godinu sa rezultatima iz prethodnih godina izvršeno je tabelarno i grafički, i to:

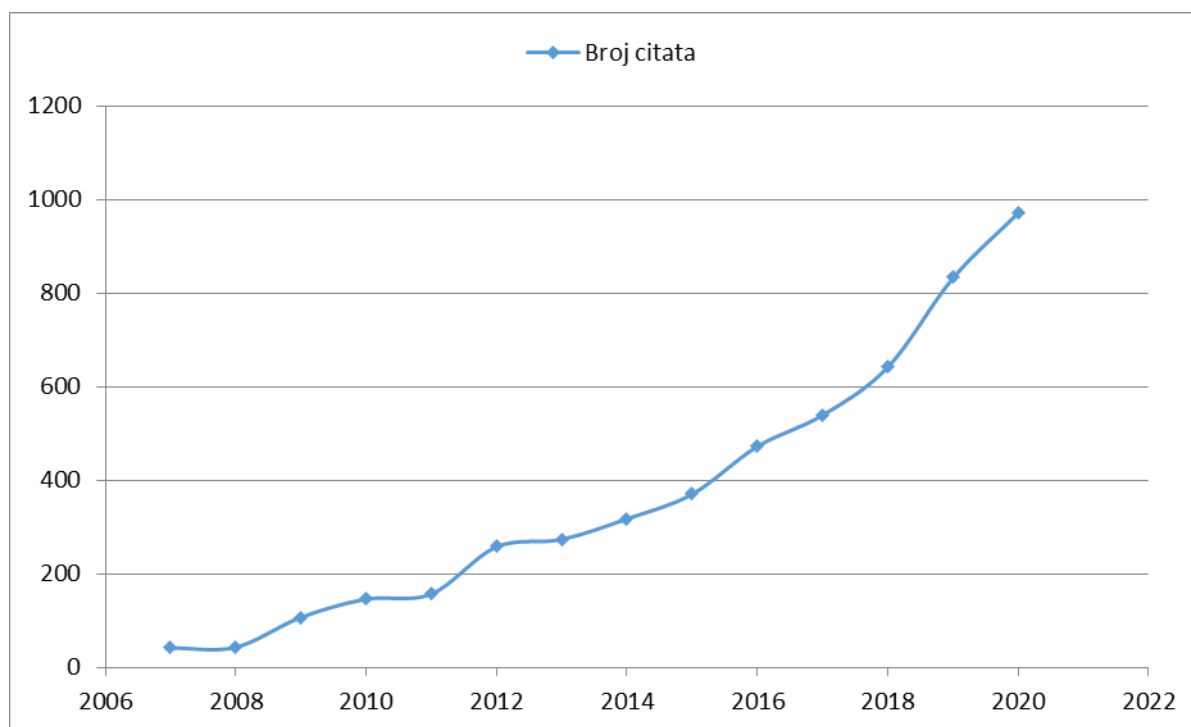
- **slika 1** – Pregled broja objavljenih radova grupe rezultata M20 i M50,
- **slika 2** – Pregled broja citata u časopisima sa IF (JCR lista),
- **tabela 2** – Prikaz broja rezultata grupa M30, M60, M70, M80 i M90 i
- **slika 3** – Pregled broja projekata na kojima su učestvovali nastavnici i saradnici.

Tabela 1 – Zbirni prikaz rezultata NIR-a Tehničkog fakulteta u Boru za 2020. god.

Tip rezultata - kategorija, prema MPNTR RS	Broj ostvarenih rezultata	UKUPNO
M13	1	M13 – 1
M21a + M21	4+4=8	M20 - 58
M22	18	
M23	18	
M24	8	
M29a	4	
M29b	1	
M29v	1	
M31	5	M30 - 85
M32	1	
M33	58	
M34	18	
M36	3	
M51	10	M50 – 23
M52	7	
M53	4	
M55	2	
M61	1	M60 – 2
M64	1	
M70	2	M70 - 2
Udžbenici		3
Citiranost	294 rada citirana 973 puta	
Istraživači angažovani na projektima finansiranih od strane MPNTR RS	62 + 6 = 68	
Istraživači angažovani na domaćim projektima Fonda za nauku i/ili Fonda za inovacionu delatnost	6	
Međunarodni projekti	12	
Projekti finansirani od strane privrede i ostali projekti	7	
Učešće u organizaciji naučnih skupova	3 međunarodna naučna skupa	
Publikovani časopisi	4 naučna časopisa + 1 studentski časopis	



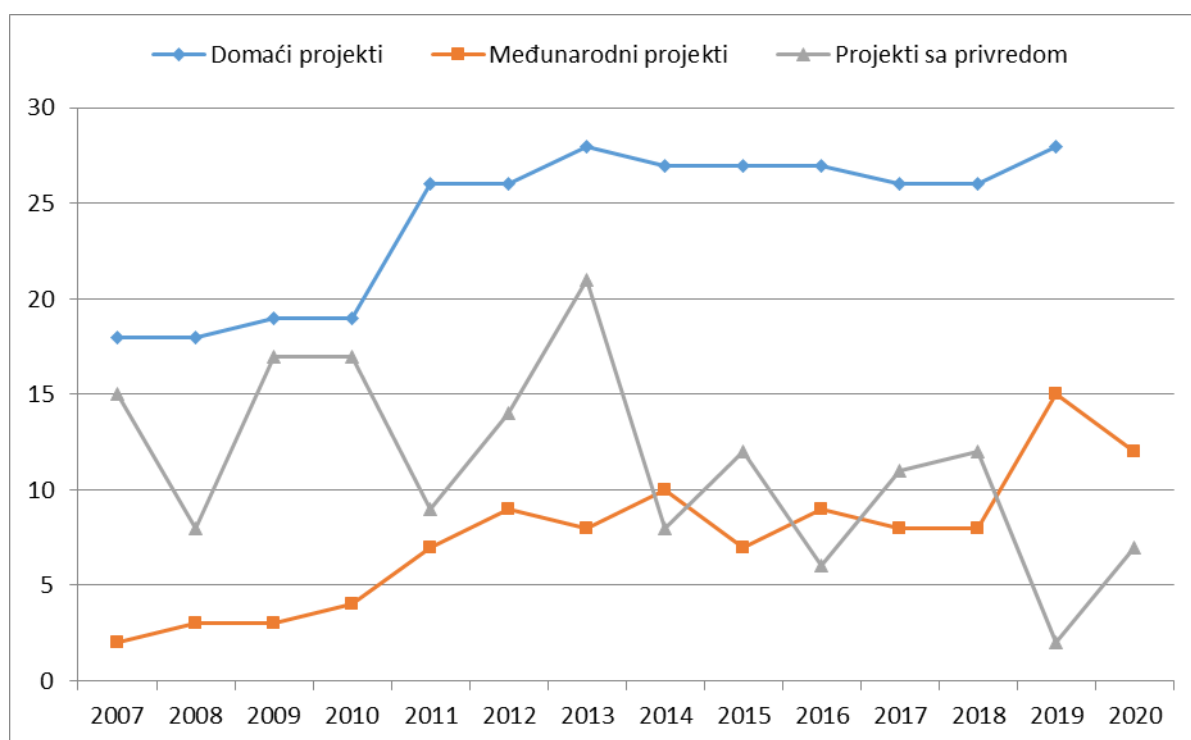
Slika 1 – Grafički pregled broja objavljenih radova grupe rezultata M20 i M50 za period od 2007. do 2020. Godine



Slika 2 – Grafički pregled broja citata u časopisima sa IF (JCR lista) za period od 2007. do 2020. godine

Tabela 2 – Pregled broja rezultata grupa M30, M60, M70 i M80 za period od 2010. do 2020. Godine

Godina	2010.	2011.	2012.	2013.	2014.	2015.	2016.	2017.	2018.	2019.	2020.
Saopštenja na međunarodnim skupovima (M30)	107	179	161	174	165	191	158	175	120	120	85
Saopštenja na domaćim skupovima (M60)	68	79	70	44	32	33	6	24	20	16	2
Odbranjene doktorske disertacije (M70) (samo zaposleni na TF Bor)	9	1	8	8 (3+5)	1	9 (1+8)	4	3	0	2	1
Tehničko-razvojna rešenja (M80)	6	2	8	9	4	6	0	0	0	0	0



Slika 3 – Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici za period od 2007. do 2020. godine

3. ZAKLJUČCI

Nakon sprovedenog postupka vrednovanja i obrade dobijenih podataka, koje su ostvarili nastavnici i saradnici u oblasti naučnoistraživačkog rada i međunarodne saradnje u 2020. godini, zaključeno je sledeće:

1. U poređenju sa rezultatima postignutim u 2019. godini, rezultati postignuti u 2020. godini slabiji su u sledećim kategorijama:

M 10	za 12 referenci ili za	92 %
M 20	za 8 referenci ili za	12 %
M 30	za 35 referenci ili za	29 %
M 40	0 u odnosu na 2 reference u 2019.	
M 60	za 14 reference ili za	87 %
Udžbenici	3 u odnosu na 4 u 2019.	
Međunarodni projekti	za 3 projekata ili za	20 %
Organizovanje naučnih skupova	3 skupa u odnosu na 5 u 2019.	

2. U poređenju sa rezultatima postignutim u 2019. godini, rezultati postignuti u 2020. godini bolji su u sledećim kategorijama:

Citiranost	br. radova	za 13 radova ili za	5 %
	br. citata	za 139 citata ili za	17 %
Projekti za privredu		5 u odnosu na 7 u 2019.	

3. U poređenju sa rezultatima postignutim u 2019. godini, rezultati postignuti u 2020. godini ostali su na istom nivou u sledećim kategorijama:

M 50
M 70
Projekti MPNR RS
Udžbenici
Publikovanje časopisa

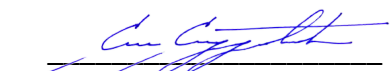
4. Ostvareni rezultati ukupno se ocenjuju kao slabiji u odnosu na 2019. godinu međutim, ovakav rezultat je i bio očekivan. Imajući u vidu sva ograničenja i zabrane usled pandemije COVID-19 virusa nije bilo moguće organizovati naučne skupove, vršiti istraživanja za potreba pisanja radova ili organizovati i sprovesti bilo kakav naučno-istraživački rad. Epidemiološka situacija se malo popravila u poslednjem kvartalu 2020. godine ali ne u dovoljnoj meri da omogući normalan

rad. Iz tog razloga, iako su rezultati NIR-a u 2020. godini merljivo manji u odnosu na 2019. ne treba ih smatrati merodavnim jer svakako ne ukazuju na pad kvaliteta NIR-a na Tehničkom fakultetu u Boru već samo odražavaju globalnu situaciju.

Prilog: Godišnji izveštaj o rezultatima NIR-a za 2020. godinu

U Boru, februar 2021. godine

za Komisiju predsednik


Prof. dr Saša Stojadinović

Dostavljeno:

- 1x Nastavno-naučnom veću
- 1x Arhivi Fakulteta
- 1x Arhivi Komisije

Prilog 1

Godišnji izveštaj o rezultatima ostvarenim u naučnoistraživačkom radu i međunarodnoj saradnji za 2020. godinu

Универзитет у Београду,
Технички факултет у Бору



**Годишњи извештај о резултатима
оствареним у научно-истраживачком
раду и међународној сарадњи за
2020. годину**

Бор,
фебруар 2021. године

ОСНОВНИ ПОДАЦИ

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2020. годину састоји се из следећих прилога:

- Списак референци наставника и сарадника са ТФ Бор (М10 - М90), Прилог 1
- Списак цитираних радова наставника и сарадника са ТФ Бор, Прилог 2
- 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 2020. године, који су представљени у прилозима може се закључити следеће:

1. Публиковане монографске студије и радови у међународним часописима, категорије М10+М20: $1+58=59$ рада
2. Публиковани радови у националним часописима, категорије М50: 23 рада
3. Публиковани уџбеници: 3 уџбеника
4. Саопштени радови на међународним (М30) и националним (М60) скуповима: $84+2=86$ рада
5. Ангажовање на пројектима:
 - а. Истраживаћи ангажовани по Уговору о реализацији и финансирању научноистраживачког рада НиО у 2020. години, код Министарства просвете науке и технолошког развоја Републике Србије: 62.
 - б. Истраживачи ангажовани на осталим домаћим пројектима: 6 – на пројекту у оквиру позива „Развој високог образовања“ и 6 – на пројекту у оквиру позива „Доказ концепта“, укупно 12 истраживача.
 - в. Међународни пројекти: 12
 - д. Пројекти финансирани од стране привреде и остали пројекти: 7

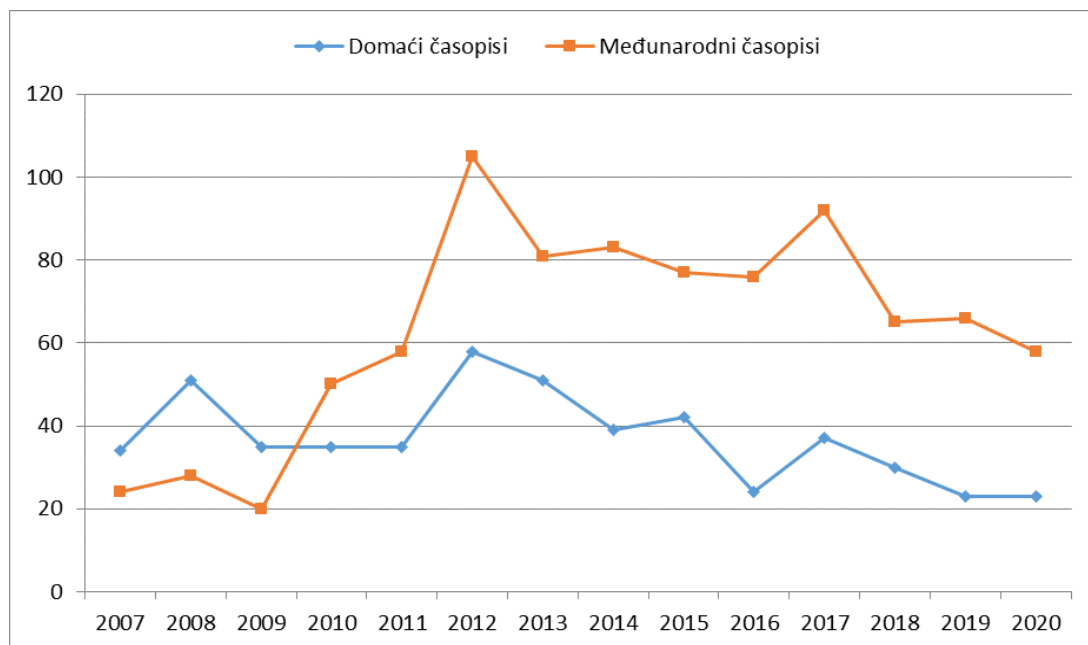
6. Цитираност у 2019. години (SCOPUS резултати): 294 рада цитирана 873 пута.

Збирни приказ резултата НИР-а за 2020. годину дат је у Табели 1.

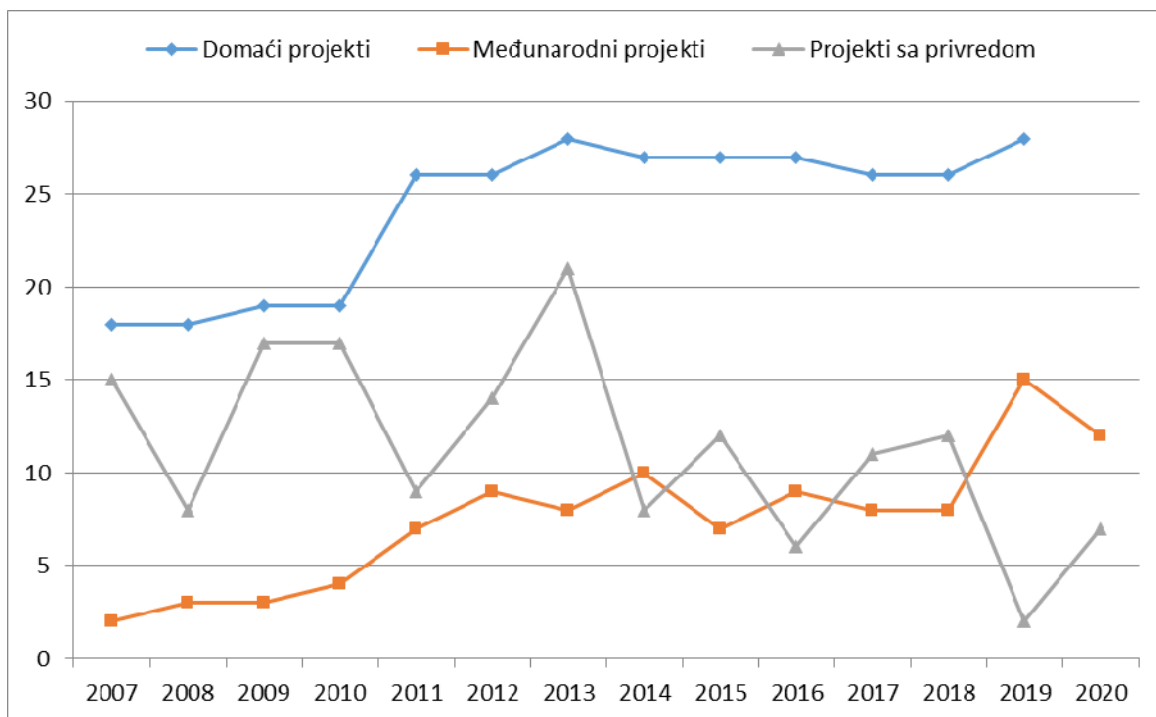
Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2020. год.

Тип резултата - категорија, према МПНТР РС	Број остварених резултата	УКУПНО
M13	1	M13 - 1
M21a + M21	4+4=8	M20 - 58
M22	18	
M23	18	
M24	8	
M29a	4	
M29b	1	
M29v	1	
M31	5	M30 - 85
M32	1	
M33	58	
M34	18	
M36	3	
M51	10	M50 - 23
M52	7	
M53	4	
M55	2	
M61	1	M60 - 2
M64	1	
M70	2	M70 - 2
Уџбеници		3
Цитираност	294 рада цитирана 973 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	6	
Међународни пројекти	12	
Пројекти финансирани од стране привреде и остали пројекти	7	
Учешће у организацији научних скупова	3 међународна научна скупа	
Публиковани часописи	4 научна часописа + 1 студентски часопис	

У наставку, на Сликама 1.-3. и у Табели 2., дат је упоредни приказ резултата остварених на ТФ Бор за претходни период (од 2007. године до краја 2020. године).



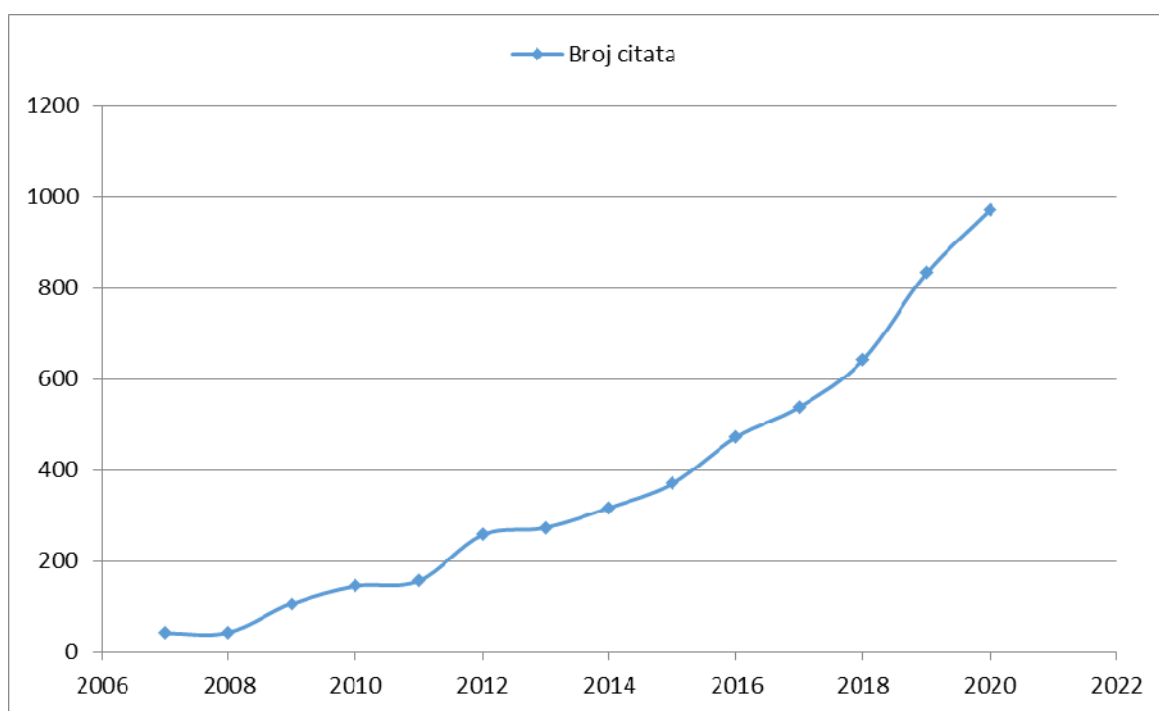
Слика 1. Упоредни приказ броја радова објављених у међународним и домаћим часописима (M20 и M50) на ТФ Бор у периоду 2007. – 2020. год.



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

Табела 2. Упоредни приказ броја резултата категорија М30, М60, М70 и М80 у периоду 2010. – 2020. год.

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
Одбрађене 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 ЈСР листи за ТФ Бор у периоду 2007. – 2020. год.

На самом почетку анализе резултата остварених из области научно-истраживачког рада, потребно је истаћи да је 2020. година имала специфичности, које нису карактеристичне ни за једну од претхдних година, током којих је вршена

евиденција постигнутих резултата. Наиме, почетком 2020. године, наступила је планетарна здравствена криза изазвана пандемијом КОВИД – 19, која је довела до увођења ванредног стања, како у нашој земљи, тако и широм света. Као последица наведене здравствене кризе, велики број међународних активности је морао бити одложен или отказан, што је свакако имало изузетан утицај на остварене резултате на пољу научно истраживачког рада. Самим тиме, није захвално вршити поређење резултата остварених током 2020. године, са претходним годинама, зато што услови за реализацију НИР-а нису били ни приближно исти. Ипак, у даљем тексту се даје упоредна анализа остварених резултата, како би се показало да је, упркос изазовима који су наступили средином марта 2020., учињен значајан напор истраживача са Техничког факултета у Бору, на остваривању што бољих резултата, и у датим околностима.

Према томе, имајући у виду наведене услове при којима су реализоване научно истраживачке активности, анализирајући резултате остварене у оквиру научно-истраживачких активности, истраживача са Техничког факултета у Бору у 2020. години, они се могу сматрати задовољавајућим и адекватним актуелном стању у свету. Поређење са претходним периодом указује на одређени пад укупног броја објављених радова у међународним часописима, у односу на период 2012-2019. године - M20: 2012.год.-97, 2013.год.-81, 2014.год.-83, 2015.год.-77, 2016.год.-76 и 2017.год.-96, 2018.год.-65, 2019.год - 66, 2020.год - 58. Међутим, чињеница која охрабрује је да је удео M21 радова, у оквиру категорије M20 радова, на нивоу претходног периода. Наиме, у 2018 је публиковано 6 радова категорије M21 и 1 M21a, у 2019. публиковано 8 радова M21 категорије, као и 3 рада категорије M21a., док је 2020. године публиковано 4 радова категорије M21 и 4 категорије M21a.

У 2020. години је забележена је и стагнација у броју публикованих радова у домаћим часописима – M50: 2012.год.-58, 2013.год.-51, 2014.год.-39, 2015.год.-42, 2016.год.-24 и 2017.год.-33, 2018.год.-30, 2019.год.-23 и 2020.год.-23, Слика 1. Међутим, код ове категорије радова теба имати у виду да се они све мање узимају у обзир код верификације резултата истраживача, те се домаћи истраживачи логично више усмеравају ка писању радова у интернационалним часописима.

Током 2020. године, дошло је до промене у начину финансирања пројектних активности научно-истраживачких организација (НИО), од стране Министарства просвете, науке и технолошког развоја, Републике Србије. За разлику од претходних година, где су од стране Министарства финансирани појединачни пројекти, током 2020. године се финансирање наставило за истраживаче који су ангажовани на наведеним пројектима, али на нивоу НИО – односно Факултета. Самим тиме, јануара 2020. године, потписан је Уговор о реализацији и финансирању научноистраживачког рада НИО у 2020. години са Министарством. Такође, крајем 2020. године, било је неопходно припремити нови формат описног извештаја, којим су представљени остварени резултати истраживача са НИО, ангажованих на основу наведеног уговора са Министарством. Поред тога, припремљен је и план

истраживања НИО за 2021. годину, на основу кога ће се наставити финансирање пројектних активности од стране Министарства и током 2021. године. Ипак, сам прелазак на институционално финансирање, уместо пројектног, од стране Министарства, довео је до тога да у даљем периоду није могуће вршити поређење броја пројеката ове врсте, већ ће у будуће бити вршено поређење броја ангажованих истраживача на пројектним активностима Министарства. Током 2020. године, на основу уговора потписаног са Министарством, на Факултету је било ангажовано 62 истраживача. Такође, током 2020. године, завршена је реализација пројекта прихваћеног за финансирање од стране Министарства просвете, науке и технолошког развоја Републике Србије, по позиву „Развој високог образовања“, на којем су истраживачи са Факултета ангажовани од 2019. године. На овом пројекту је ангажовано још 6 истраживача, тако да је укупни број истраживача финансираних од стране Министарства, током 2020. године, био 68.

Истраживачи са Факултета, учествовали су и у припреми пројектне пријаве у оквиру позива „Доказ концепта“, Фонда за иновациону делатност републике Србије. Пројектна пријава је прихваћена за реализацију и у оквиру ње су се током 2020. године реализовале предвиђене пројектне активности. На овом пројекту је ангажовано још 6 истраживача са Факултета.

Такође, у циљу реализације плана за привлачење капиталних инвестиција, Факултет је припремио две пројектне пријаве и аплицирао код Министарства, на основу јавног позива у оквиру Програма расподеле инвестиционих средстава Министарства просвете, науке и технолошког развоја за 2021. годину. Пројектне пријаве се односе на формирање Лабораторије за дигитализацију на Техничком факултету у Бору и Санацију објекта Минералашке зборке Факултета. Очекују се резултати наведеног позива.

Поред тога, током 2020. године, истраживачи са Техничког факултета у Бору, учествовали су у писању 16 пројектних идеја, у оквиру позива ИДЕЈЕ, који је расписан од стране програма Фонда за науку републике Србије. Од тог броја, истраживачи са Факултета се на 6 идеја налазе на месту руководиоца пројекта, док се код осталих налазе у пројектним тимовима истраживача са других институција. Још увек се очекују се резултати евалуације наведених пројектних идеја.

Истраживачи са ТФ Бор учествовали су током 2020. године на 12 међународних истраживачких пројеката и пројеката међународне мобилности наставника, студената и ненаставног особља. Ово је већи број пројеката у односу на 2018. годину када је на Факултету реализовано 8 међународних пројеката и нешто је мањи у односу на 2019. годину, када је реализовано 15 пројеката ове врсте. Ипак, треба имати у виду, да је крајем 2020. године, прихваћен за финансирање додатни број пројеката мобилности у оквиру ЕРАСМУС + програма, који су у фази потписивања интеринституционалних уговора, те још увек нису уврштени у коначан број међународних пројеката Факултета. Свакако, треба напоменути да је и на

реализацију активности пројеката мобилности, значајно утицала светска здравствена криза изазвана пандемијом Ковид 19.

У циљу даљег раста броја међународних пројеката Факултета, јуна 2020. године формиран је Интердисциплинарни пројектни тим Техничког факултета у Бору. Наведени тим ће се бавити претраживањем отворених пројектних позива на којима Факултет може аплицирати са новим пројектним идејама, припрема пројектних апликација, укључивањем студената у пројектне активности, као и организацијом допунских тренинга и едукација за припрему пројектних пријава. На основу активности наведеног тима, очекује се и даљи пораст броја међународних пројеката, у будућем периоду.

У области сарадње са привредом, у 2020. години забележен је значајан раст. Наиме, током 2019. године урађена су само 2 пројекта ове врсте, док је у 2020. реализовано укупно 7 оваквих пројеката, што представља значајни раст у односу на претходни период (Слика 2). Јануара 2020. године формиран је савет послодаваца Техничког факултета у Бору. Савет послодаваца је саветодавни орган Техничког факултета у Бору и чине га 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 школује Факултет. 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 наведеног тела, постоји и могућност даљег пораста броја пројеката сарадње са привредом, у наредном периоду.

Број саопштења на скуповима, како домаћим тако и страним, претрпео је најзначајнији утицај светске здравствене кризе. Наиме, велики број скупова је одложен или отказан, што је довело до тога да је у условима дате неизвесности било немогуће публиковати већи број резултата ове врсте. Према томе, на међународним скуповима је публикован значајно мањи број резултата, у односу на претходне године у категорији М30: 2012.год.-161, 2013.год.-174, 2014.год.-165, 2015.год.-191, 2016.год.-158, 2017.год.-175, 2018.год.-120, 2019. год - 120 и 2020.год - 85. Такође је значајан пад уочен и у броју саопштења на домаћим скуповима - М60: 2012.год.-70, 2013.год.-44, 2014.год.-32, 2015.год.-33, 2016.год.-6, 2017.год.-24, 2018.год.-20 и 2019.год.-16., 2020.год-2 (Табела 2).

Ипак, чињеница коју треба истаћи је да се наставља тренд континуалног повећање броја цитираних радова, као и укупног броја цитата на JCR листи, истраживача са нашег Факултета: 2012.год.-111 радова цитираних 258 пута, 2013.год.-112 радова цитираних 274 пута, 2014.год.-145 радова цитирана 318 пута, 2015.год.-157 радова цитираних 371 пут, 2016.год.-202 рада цитирана 474 пута и 2017.год.-221 рад цитиран 540 пута, 2018.год.-222 рада цитирана 643 пута, 2019.год.-281 рада цитирана 834 пута

и 2020.год-294 рада је цитирано 973 пута (Слика 3). Наведена чињеница говори у прилог томе да, иако је укупни број публикованих и саопштених радова мањи него у претходном периоду, имајући у виду специфичност и отежане околности за научни рад 2020. године, изазване глобалном пандемијом, очигледно је да расте њихова видљивост и прихватање у научној заједници, који доводе до даљег тренда перманентног повећања броја цитата.

Радови категорије M21-M23, које су током 2020. године публиковали запослени на Техничком Факултету у Бору, припадају тардиционалним научним областима, у којима се врше истраживања на нашем Факултету:

Metallurgy & Metallurgical Engineering (14 пада); Operations Research, Production optimization, Safety Science, Management Science, Decision Science, CSR (12 пада); Mining and Mining Science (5 пада); Information Technology, Machine Learning, Computer Science, Information Systems (5 пада); Engineering Civil (4 пада); Chemistry and Chemical Engineering, Environmental Studies, Environmental Sciences, Ecology (3 пада); Mathematics, Mathematics Applied (1 пада).

Током 2020. године, на Техничком Факултету у Бору је штампан 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)
- Recycling and Sustainable Development (RSD)

Од 2016. године Технички факултет у Бору издаје и први студентски часопис „Engineering Management“. Током 2020. године, и овај часопис је редовно публикован, према планираној динамици.

Током 2020. године Технички факултет у Бору је учествовао у организацији три научна скупова, 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:

- 28th International Conference Ecological Truth and Environmental Research (EcoTER 2020), Kladovo, Србија, 16.-19. јун 2020. године
- 16th International May Conference on Strategic Management (IMCSM 2020), Бор, 25.-27. септембар 2020. године. Конференција је организирана „онлајн“ преко ZOOM платформе
- XII Savjetovanje hemičara, tehnologa i ekologa RS, Бања Врућица, Теслић, Босна и Херцеговина, 30.-31. октобар 2020. године

У оквиру скупа ИМКСМ 2020 и ове године је организован студентски симпозијум: 16. Студентски симпозијум о стратегијском менаџменту.

Поред наведеног, маја 2020. године формиран је Дигитални репозиторијум Техничког факултета у Бору. Репозиторијум Техничког факултета у Бору (<https://biblioteka.tfbor.bg.ac.rs/>) је обједињени дигитални репозиторијум свих научних радова, уџбеника, књига, докторских дисертација и свих осталих публикација, публикованих у оквиру Универзитета у Београду – Техничког факултета у Бору. Циљ репозиторијума је да омогући отворени приступ публикацијама, као и осталим резултатима насталим у оквиру научно – истраживачког рада и пројеката који се изводе на Техничком факултету у Бору, у циљу веће видљивости и пораста цитираности наших резултата. Репозиторијум је израђен, у склопу тенденције отворене науке, и интегрисан је са већ постојећим репозиторијумима у оквиру РЦУБ-а Универзитета у Београду. Дигитални репозиторијум је направљен у оквиру стандарда успостављених за репозиторијуме Универзитета у Београду, и током 2020. кренуло се са уносом публикација истраживача са Факултета.

Током 2020. 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 2020. године, настављене су и активности у оквиру академских мрежа у којима је ТФ Бор активан партнер: MET-NET мрежа, CESAER мрежа, SAP – University alliance, Resita Network, EURAXESS мрежа, Српска национална мрежа технолошких брокера. Такође, и у околностима изазваним пандемијом, 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 2020. години су пријављени нови пројекти мобилности са следећим институцијама: Obuda University, Budapest, Hungary; University of Zagreb, Zagreb, Хрватска; University of Eastern Finland, Joensuu, Kuopio, Savonlinna, Финска; University of Ljubljana, Ljubljana, Словенија; Politehnica University of Timișoara, Румунија; University of Leoben, Аустрија; Transilvania University of Brasov, Румунија, у оквиру позива KA103. Такође, припремљене су и пројектне пријаве за мобилности у оквиру позива KA107 са институцијама: Универзитет у Тузли, Рударско, геолошко, грађевински факултет; Business and Technology University, Tbilisi, Грузија и National Technical University of Ukraine “Igor

Sikorsky Kyiv Polytechnic Institute”, Украјина. За велики број наведених институција су прихваћене мобилност студената и наставника, које ће се реализовати током 2021. године, према уговорима који се припремају на нивоу Универзитета.

И током 2020. године, пре наступања ванредног стања (у периоду јануар – март), организоване су посете тима за промоцију Факултета свим средњим школама у Бору, као и бројним средњим школама у ширем региону. Након проглашења ванредног стања, приступило се промоцији путем интернета, друштвених мрежа, штампаних и електронских медија, услед светске здравствене кризе.

Технички Факултет у Бору је у 2019. години имао и запажено учешће на сајму „EduFair“, који је организован у Београду, пре проглашења ванредног стања. То је уједно и једини овакав сајам који је организован „уживо“, током 2020. године. Потом, факултет је и ову врсту промотивних активности организовао посредством интернета и друштвених мрежа.

Акције везане за промоцију и популаризацију науке код младих настављене су током 2020. године, и након избијања пандемије у марту 2020. 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 виртуално, преко интернета, као и у великом броју додатних активности, организованих махом посредством савремених информационо комуникационих технологија, као и преко електронских и штампаних 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 2020. године; имајући у виду специфичност околности и неупоредиво теже услове за сам научно-истраживачки рад, услед светске здравствене кризе; били задовољавајући. Свакако, у нади да ће 2021. година донети завршетак наведене здравствене кризе, свакако ће се радити на томе да резултати Факултета у предстојећем периоду буду значајно бољи.

у Бору, 03. 02. 2020. године

Подносилац извештаја

проф. др Иван Михајловић
продекан за НИР и МС ТФ Бор

Prilog 1.

**PREGLED REZULTATA NIR-A KOJE SU OSTVARILI NASTAVNICI I SARADNICI
TEHNIČKOG FAKULTETA U BORU U 2020. GODINI**

Tip rezultata/kategorija prema MPNTR RS	Broj ostvarenih rezultata
M13	1
M21a	4
M21	4
M22	18
M23	18
M24	8
M29a	4
M29b	1
M29v	1
M31	5
M32	1
M33	58
M34	18
M36	3
M51	10
M52	7
M53	4
M55	2
M61	1
M64	1
TF10	3
TFP1	4
TFP2	4
TFP3	7

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Prilog 3.

SPISAK ISTRAŽIVAČA SA TEHNIČKOG FAKULTETA U BORU ANGAŽOVANIH NA DOMAĆIM PROJEKTIMA 2020. GODINE

Projektne aktivnosti finansirane od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije:

Tokom 2020. godine, finansiranje naučnoistraživačkog rada istraživača, od strane Ministarstva prosvete, nauke i tehnološkog razvoja, sa projektnog principa je promenjeno u institucijalni princip. Samim time, umesto angažmana istraživača na projektnim temama, od 2020. godine, su istraživači angažovani u okviru Naučnoistraživačke organizacije (NIO) - Tehnički fakultet u Boru, u skladu sa Ugovorom o realizaciji i finansiranju naučnoistraživačkog rada NIO u 2020. godini (br. 451-03-68/2020-14/200131), od 16.01.2020. godine. Spisak istraživača angažovanih na projektnim aktivnostima finansiranim od strane MPNTR Srbije, na osnovu Ugovora ministarstva, potpisanog u 2020. godini:

Редни број	Име	Презиме	Звање	Научноистраживачка организација
1	Љубиша	Балановић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
2	Маја	Нујкић	Доцент	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
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12	Милан	Антонијевић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
13	Чедомир	Малуцков	Редовни професор	Универзитет у Београду, Технички факултет у Бору
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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
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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
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30	Јелена	Калиновић	Асистент	Универзитет у Београду, Технички факултет у Бору
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46	Милован	Вуковић	Редовни професор	Универзитет у Београду, Технички факултет у Бору
47	Радоје	Пантовић	Редовни професор	Универзитет у Београду, Технички факултет у Бору

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53	Мира	Џоцић	Ванредни професор	Универзитет у Београду, Технички факултет у Бору
54	Маја	Трумић	Доцент	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	Ванредни 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

Pored projektnih aktivnosti finansiranih u okviru Ugovora o realizaciji i finansiranju naučnoistraživačkog rada NIO u 2020. godini, od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u okviru poziva Razvoj visokog obrazovanja, finansirani su i projekti:

Red. br.	Naziv projekta	Istraživači	Nosilac (koordinator)	Rukovodilac
1.	SET – SAP „Students’ Entrepreneurship Training through SAP“	Prof. dr Đorđe Nikolić Prof. dr Ivan Mihajlović Doc. dr Nenad Milijić Doc. dr Aleksandra Fedajev Doc. dr Sanela Arsić	Tehnički fakultet u Boru	Prof. dr Đorđe Nikolić

Projektne aktivnosti finansirane od strane Fonda za inovacionu delatnost:

U okviru poziva „Dokaz koncepta“, tokom 2020. godine je prihvaćen za realizaciju i projekat:

Red. br.	Naziv projekta	Istraživači	Nosilac (koordinator)	Rukovodilac
1.	Modularni sistem za podršku strateškom odlučivanju „PLEXUS II“	Prof. dr Đorđe Nikolić Prof. dr Ivan Mihajlović Prof. dr Isidora Milošević Doc. dr Aleksandra Fedajev Doc. dr Sanela Arsić Oliver Marković, dipl. ing.	Tehnički fakultet u Boru	Prof. dr Đorđe Nikolić

Prilog 4.

SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2020. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

1. JST SATREPS project: Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development, 2014.-2020.

Institucije učesnice na projektu: Center for Geo-environmental Science (CGES), Akita University; International Center for Research and Education on Mineral and Energy Resources (ICREMER), Akita University; Faculty of International Resource Science; Graduate School of Engineering and Resources Science, Akita University; Japan Space Systems (J-spacesystems) i Mitsui Mineral Development Engineering Co., Ltd. (MINDECO) (Japan) i Institut za rudarstvo i metalurgiju Bor, Tehnički fakultet u Boru Univerziteta u Beogradu, Ministarstvo rudarstva i energetike Republike Srbije i Ministarstvo poljoprivrede i zaštite životne sredine Republike Srbije (Srbija)

Rukovodilac projekta: prof. dr Daizo Ishiyama (Japan)

Saradnici sa Tehničkog Fakulteta u Boru angažovanih tokom realizacije projekta: prof. dr Nada Štrbac, prof. dr Grozdanka Bogdanović, prof. dr Milan Antonijević, prof. dr Dejan Tanikić, prof. dr Milan Trumić, prof. dr Snežana Milić, prof. dr Milan Radovanović, prof. dr Jovica Sokolović, prof. dr Saša Stojadinović, prof. dr Ljubiša Balanović, prof. dr Vesna Grekulović, prof. dr Marija Petrović Mihajlović, prof. dr Milan Gorgijevski, doc. dr Aleksandra Mitovski, doc. dr Tanja Kalinović, prof. dr Maja Trumić, doc. dr Ana Radojević, doc. dr Žaklina Tasić, ass. Pavle Stojković i ass. Boban Spalović.

Vrsta projekta: Internacionalni istraživački projekat

2. 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 Politehnica 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.

3. EU-PRO projekat: B.O.S.S. – Be Owner of Successful SME, 2019 – 2020.

Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu

Rukovodioc projekta: doc. dr Marija Panić.

Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Ivan Mihajlović, prof. dr Đorđe Nikolić, prof. dr Milica Veličković, prof. dr Isidora Milošević, doc. dr Danijela Voza, doc. dr Nenad Milijić, prof. dr Aleksandra Fedajev.

Vrsta projekta: Projekat podržan od strane Evropske Unije, uz podršku Vlade Republike Srbije, u okviru programske akcije EU PRO.

4. RIS – CuRE projekat: Zero waste recovery of copper tailings in the ESEE region (RIS – CuRE)

Institucije učesnice na projektu: ETI Raw Materials GmbH, Berlin, Nemačka; Tehnički fakultet u Boru Univerziteta u Beogradu; Zavod za gradbeninstvo Slovenije, Geological Survey od Slovenia; Gomez Padro Foundation; IRGO Consulting; Outotec Finska; Privredna komora Srbije; Građevinski institut Makedonije; Univerzitet Goce Delčev iz Štipa, Makedonija; RTB Bor,

Rukovodioc projekta sa Tehničkog fakulteta u Boru: prof. dr Radoje Pantović.

Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Saša Stojadinović, Vukosav Antonijević.

Vrsta projekta: Projekat se realizuje u okviru Partnerskog ugovora (Framework Partnership Agreement FPA 2016/EIT Raw Materials) .

5. Program bilateralne saradnje Srbije i Slovačke: Mašinsko učenje primenom modela frakcionog reda (: Fractional calculus approach to machine learning), 2019.-2020.

Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Fakultet rudarstva, ekologije, kontrole procesa i geotehnologije Tehničkog univerziteta u Košicama (Slovačka).

Rukovodioci projekta: doc. dr Vladimir Despotović (Srbija) – do 26.08.2019., potom Prof. dr Dejan Tanikić (Srbija) i Tomaš Škovranek, naučni saradnik (Slovačka).

Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Dejan Tanikić

Vrsta projekta: Bilateralni istraživački projekat

6. 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.

7. COST program – projekat: From Sharing to Caring: Examining Socio-Technical Aspects of the Collaborative 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.

8. COST program – projekat: Indoor 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.

- 9. 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, School 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

- 10. 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, Braşov, 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

- 11. 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 Ljubljana, Ljubljana, Finska).**

Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Univerzitet u Ljubljani (Slovenija)

Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

12. 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 Zagreb, Zagreb, Hrvatska).

Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Univerzitet u Zagrebu (Hrvatska)

Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

Pored toga, početkom 2020. godine, na raspisan konkurs Univerziteta, nakon dobijenih predloga sa svih studijskih programa, izvršena je aplikacija za nove mobilnosti u okviru ERASMUS + KA107 i KA103 programa.

U okviru KA107 (Mobilnosti sa partnerskim zemljama – van EU), predloženi su projekti mobilnosti sa Univerzitetom u Tuzli, Rudrasko, geološko, građevinskim fakultetom; Business and Technology University, Tbilisi, Gruzija i National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Ukrajina. U okviru navedenog poziva bilo je moguće aplicirati sa projektima odlazne i dolazne mobilnosti studenata i nastavnika, kao i mobilnosti za trening nastavnog i nenastavnog osoblja. Spisak traženih i odobrenih mobilnosti u okviru navedenog programa je:

Naziv partnerske institucije	Tražene mobilnosti za dolazak kolega sa partnerske institucije	Tražene mobilnosti za odlazak sa TF Bor	Odobrene mobilnosti za dolazak sa partnerske institucije	Odobrene mobilnosti za odlazak sa TF Bor
Univerzitet u Tuzli / Rudrasko, geološko građevinski fakultet, Bosna i Hercegovina	2- studenta/4 nastavnika /2 mobilnosti za trening nastavnog ili nenastavnog osoblja	2-studenta/4-nastavnika/2 – za trening	2 – studenta / 1 mobilnost za trening nastavnog ili nenastavnog osoblja	1 - student/1 - nastavnik
Business and Technology University, Tbilisi, Gruzija	2- studenta/2 nastavnika /2 mobilnosti za trening nastavnog ili nenastavnog osoblja	2- studenta/2 nastavnika /2 mobilnosti za trening nastavnog ili nenastavnog osoblja	/	1- student/1 nastavnik
National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Ukrajina	2- studenta/2 nastavnika /2 mobilnosti za trening nastavnog ili nenastavnog osoblja	2- studenta/2 nastavnika /2 mobilnosti za trening nastavnog ili nenastavnog osoblja	/	1- student

Takođe, u okviru programa KA103 (Mobilnost sa programskim zemljama - zemlje EU), predate su aplikacije projekata mobilnosti sa partnerskim institucijama: Politehnica University of Timișoara, Rumunija; Obuda University, Budimpešta, Mađarska; University of Leoben, Austrija; University of Eastern Finland, Finska; Transilvania University of Brasov, Rumunija; Univerzitet u Zagrebu; Univerzitet u Ljubljani. Za projekte mobilnosti sa programskim zemljama, moguće je prijaviti samo brojeve odlaznih mobilnosti studenata, nastavnika i mobilnosti za trening nastavnog i nenastavnog osoblja. Za mobilnosti dolaznog tipa, aplicirajte sama partnerska institucija. Spisak traženih i odobrenih mobilnosti u okviru navedenog programa je:

Naziv partnerske institucije	Tražene mobilnosti za odlazak sa TF Bor	Odobrene mobilnosti za odlazak sa TF Bor
Politehnica University of Timișoara, Rumunija	2-studenta/2- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	2 - studenta/1 - nastavnik
Obuda University, Budimpešta, Mađarska	2-studenta/4- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	2 - studenta/1 - nastavnik
University of Leoben, Austrija	2-studenta/3- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	1 - student
University of Eastern Finland, Finska	2-studenta/2- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	1 - student
Transilvania University of Brasov, Rumunija	2-studenta/2- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	2 - studenta/1 - nastavnik
University of Zagreb, Hrvatska	2-studenta/2- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	/
University of Ljubljana	2-studenta/2- nastavnika/2 – za trening nastavnog ili nenastavnog osoblja	/

Za navedene mobilnosti, ugovori će se sa programskim i partnerskim institucijama potpisati na nivou Univerziteta i nakon toga, može se očekivati otvaranje poziva za prijavu zainteresovanih studenata, nastavnika i saradnika. Otvoreni pozivi za obilnosti će biti postavljeni na platformu Univerziteta – MOBION, tokom 2021. godine (<https://mobion.bg.ac.rs/>).

Svakako, ne treba očekivati otvaranje poziva pre stabilizacije epidemiološke situacije sa COVID19 pandemijom u svetu.

Prilog 5.

SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2020. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti, studije, elaborati

1. **M. Trumić, M. Žikić, S. Stojadinović, A. Fedajev, D. Pešić, D. Jovanović, V. Ćurčin, R. Blagojević, M. Đokić:** Tehnička kontrola DRP izvedenog stanja proširenja flotacijskog jalovišta Veliki Krivelj na nultu polje, 2020
2. **M. Trumić, M. Žikić, D. Pešić, D. Jovanović:** Tehnička kontrola Tehničkog rudarskog projekta kontrolnog prosegavanja gotovog proizvoda klase - 63mm + 31,5mm (tucanika) na površinskom kopu Krš kod Ljubovije, 2020
3. **M. Žikić, V. Milić, S. Stojadinović, D. Petrović:** Tehnička kontrola tehničkog projekta jednošinske viseće železnice za prevoz radnika i materijala u transportnom niskopu od K-21 do K-235 m u Jami Bor, 2020
4. **R. Pantović, M. Žikić, S. Stojadinović, N. Vušović, P. Stojković:** Izveštaj o zonama uticaja miniranja, prašine i buke u Rudniku bakara Majdanpek, (Ugovor br: VII/4 - 478/3, Investitor: Serbia Zijin Bor Copper Doo Bor), 2020
5. **R. Pantović, S. Stojadinović, J. Ivaz:** Elaborat o proceni rizika buduće eksploatacije flotacijskog jalovišta Valja Fundata Rudnika bakra Majdanpek, 2020
6. **R. Pantović, J. Ivaz, P. Stojković:** Elaborat o analizi rezultata monitoringa seizmičkih efekata pri izvođenju miniranja na površinskom kopu Veliki Krivelj za 2020. i 2021. godinu, sa mesečnim i kvartalnim izveštajima (Ugovor br: VII/4 – 985/3 od 31.07. 2020. godine), Investitor: Serbia Zijin Copper Doo Bor), 2020
7. **R. Pantović, P. Stojković:** Elaborat o analizi rezultata monitoringa seizmičkih efekata pri izvođenju miniranja na površinskom kopu "Veliki Krivelj" za 2019. godinu, sa mesečnim izveštajima (Investitor Serbia Zijin Bor Copper Doo Bor), 2020

Prilog 6.

OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2020. 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 2020. godinu).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, svrstan je u kategoriju **M23**, sa IF(2020)=1,134 (prema kategorizaciji naučnih časopisa u oblasti Metallurgy & Metallurgical Engineering, za 2020. godinu). Kao i sa petogodišnjim IF=1,060 i mestom 48/79 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 2020. godinu). Kao i sa IF = 0.27 na SJR listi.
- **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 2020. 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 2020. godine, Fakultet je organizovao, ili učestvovao u organizaciji, sledećih naučnih skupova:

- **XXVIII International Conference Ecological Truth and Environmental Research (EcoTER 2020)**, Kladovo, Srbija, 16.-19. jun 2020. godine. Organizator je bio Univerzitet u Beogradu, Tehnički Fakultet u Boru a suorganizatori: Univerzitet u Banjoj Luci, Tehnološki fakultet u Banjoj Luci (Bosna i Hercegovina), Univerzitet Crne Gore, Metalurško – tehnološki fakultet u Podgorici (Crna Gora), Univerzitet u Zagrebu, Metalurški fakultet u Sisku (Hrvatska), Fakultet tehničkih nauka iz Kosovske Mitrovice (Srbija) i Društvo mladih istraživača iz Bora. Skup je finansiran od strane MPNTR RS (predsednik organizacionog odbora bila je prof. dr S. Šerbula).
- **16th International May Conference on Strategic Management (MCSM 2020)**, Bor, 25.-27. septembar 2020. godine. Organizator je Univerzitet u Beogradu, Tehnički Fakultet u Boru. (predsednik organizacionog odbora bio je prof. dr P. Djordjević). Usled pandemijske situacije izazvane virusom Kovid 19, konferencija je organizovana online – primenom ZOOM platforme.
- **XII Savjetovanje hemičara, tehnologa i ekologa RS**, Banja Vrućica, Teslić, Bosna i Hercegovina, 30.-31. oktobar 2020. godine. Organizator je Univerzitet u Banjoj Luci, Tehnološki fakultet u Banjoj Luci, Bosna i Hercegovina a suorganizator Univerzitet u Beogradu, Tehnički Fakultet u Boru.

U okviru skupa **MKSM 2020** organizovan je studentski simpozijum: **15. Studentski simpozijum o stratezijskom menadžmentu** (predsednik organizacionog odbora bio je MSc I. Nikolić). U okviru skupa **EcoTER 2015** organizovana je takođe i studentska sekcija.

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 Luci, 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, RS - 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 Polytechnic 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, RS – Bosna i Hercegovina (2016-bez ograničenja trajanja)
- Univerzitet „Sv. Kiril i Metodij“, Tehnološko metalurški fakultet, Skopje, Makedonija (2015 – bez ograničenja trajanja)
- The Federal State Budgetary Educational Institution of Higher Education „The Russian Presidential Academy of National Economy and Public Administration – RANEPA“, Russia (2015-2020)
- Faculty of Science and Forestry of the University of Eastern Finland, Joensuu and Kuopio, Finland (2015-2020)

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)

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 & Steel 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)

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 Entrepreneurship 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 2020. 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. Ova mreža je i tokom 2019. godine imala određene aktivnosti, koje su predstavljale naučnu saradnju istraživača, priststvo na partnerskim konferencijama i zajeničke publikacije.

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.

e. Cesaer Newtowk

Početkom 2020. godine Univerzitet u Beogradu se priključio međunarodnoj akademskom mreži CESAER (<https://www.cesaer.org/>). Svi fakulteti Univerziteta u Beogradu, uključujući i Tehnički fakultet u Boru, potpisali su memorandum o saradnji sa institucijama u okviru ove mreže. Navedene 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.

f. SAP University Alince

Tokom 2020. godine, istraživači i studenti Fakulteta su nastavili i aktivnosti u okviru akademske mreže SAP University Alince, u okviru 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 2020. 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 2020 – septembar 2020 došlo je do obustave mobilnosti u okviru međunarodnih projekata. Početkom septembra 2020. godine, ponovo su pokrenuti pozivi za prijavu mobilnosti studenata, nastavnika i nenastavnog osoblja, koje će se realizovati 2021. godine, naravno ukoliko to dozvoli situacija sa globalnom pandemijom.

Takođe, deo aktivnosti u okviru ERASMUS + projekata i saradnje je realizovan online – putem platformi za online nastavu. U okviru Internacionalne nedelje organizovane na Tehničkom Univerzitetu ostrava, Ekonomskom fakultetu (<https://www.ekf.vsb.cz/week/en/>), prof dr Ivan Mihajlović je održao predavanje za ERASMUS studente, na temu “The Impact of the Energy Consumption and the Ecological Footprint on COVID-19 Number of Cases in 72 Countries”. Predavanje je organizovano online, primenom MS Teams platforme za online učenje.

U okviru saradnje u CEEPUS mreži iz oblasti Rudarskog inženjerstva, asistent Jelena Ivaz i asistent Pavle Stojković, su boravili na Internacionalnoj školi rudarstva “DIM ESEE”, u period 12-17. Oktobra, koja je organizovana posredstvom CEEPUS mobilnosti.

6. Promocija i popularizacija nauke

Promocija Fakulteta, tokom 2020. godine, imajući u vidu opštu zdravstvenu situaciju i vanredno stanje prouzrokovano COVID 19 pandemijom, organizovana je u specifičnim okolnostima, te se zato razlikuje od aktivnosti promocije organizovanih tokom prethodnih godina. Naime, ove godine je zbog nemogućnosti fizičkog odlaska u sve planirane srednje škole, znatno veći akcenat stavljen na promociju u elektronskim i štampanim medijima, na internetu i na društvenim mrežama.

Rešenjem Dekana fakulteta, od 27.01.2019. imenovani su članovi grupe za promociju fakulteta kod učenika srednjih škola. Spisak imenovanih članova navedene grupe je: Ivan Mihajlović; Đorđe Nikolić; Sanela Arsić; Milica Veličković; Marija Panić; Žaklina Tasić; Jelena Kalinović; Jelena Milosavljević; Dragana Medić; Aleksandra Papluid; Uroš Stamenković; Milan Gorgievski; Ivana Marković; Kristina Božinović; Jasmina Petrović; Jovica Sokolović; Saša Kalinović; Jelena Ivaz; Vladimir Nikolić; Dragana Marilović.

Takođe, pre početka pandemije, pokrenuta je i inicijativa za dodatno unapređene marketing aktivnosti Fakulteta. Na sastanku proširenog dekanskog kolegijuma, održanog 30.01.2020., doneta je odluka o formiranju Tima za unapređenje kvaliteta marketinških aktivnosti Fakulteta. Na predlog članova proširenog kolegijuma, ovaj tim sačinju: 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 Tima su: Razmatranje štampanog propagandnog materijala koji se koristi u promociji Fakulteta i njegovo unapređenje; Razmatranje TV i radio reklame Fakulteta i predlozi za unapređenje; Analiza dodatnih mogućnosti promocije i reklame Fakulteta u medijima; Predlozi za unapređenje nastupa Tima za promociju Fakulteta u školama; Predlozi 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.

Aktivnosti promocije, koje su realizovane tokom 2020. godine:

- U periodu 25. februar – 13.mart 2020. 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 svim srednjim školama u Boru, kao i školama u sledećim gradovima: Zaječar, Negotin, Kladovo, Knjaževac, Svrlijig i Boljevac. Tako da je u školama u najbližem okruženju Tehničkog fakulteta u Boru, organizovan tradicionalni vid promocije posetom učenicima u školama i podelom propagandnog materijala.
- 17. januar 2020. Tehnički fakultet u Boru je dobio poziv da publikuje promotivni tekst u posebnom izdanju magazine CorD, sa temom Rudarstvo, koju publikuje Alliance International Media d.o.o. Beograd. U okviru ovog posebnog izdanja, pored Fakulteta, promotivne tekstove su objavile vodeće rudarske kompanije iz Srbije, predstavnici ambasada zemalja koje u Srbiji imaju predstavništva svojih rudarskih kompanija, predstavnici Ministarstva za rudarstvo i energetiku, kao i predstavnici lokalnih samouprava. U okviru ovog magazina ispred Tehničkog fakulteta u Boru, Dekan je publikovala afirmativni tekst kojim se opisuje istorijat našeg Fakulteta, mogućnosti koje on pruža aktuelnim studentima, budući pravci razvoja, kao i mogućnost stručne prakse i zaposlenja za svršene studente našeg

Fakulteta. Takođe, istaknuta je i saradnja sa kompanijom ZiDjin koja posluje u Boru i koja predstavlja značajnog partnera našeg Fakulteta u cilju zaposlenja diplomiranih inženjera nakon završetka studija na TF Bor.

- April 2020. Uspostavljena je saradnja sa marketinškom agencijom Europolis, koja se bavi publikovanjem specijalnih izdanja dnevne štampe, namenjenim promociji Fakulteta. U okviru ove saradnje, prva aktivnost je bila priprema reklame koja će se publikovati u specijalnom izdanju časopisa Blic, pod nazivom "Obrazovanje", koji je publikovan 30.04.2020. godine. Za potrebe ove publikacije, pripremljena je reklama Tehničkog fakulteta u Boru u vidu promotivnog teksta o fakultetu i predstavljeni su svi studijski programi našeg Fakulteta, zajedno sa kontakt podacima za zainteresovane kandidate. Pored štampanog izdanja, publikovano je i elektronsko izdanje navedenog dodatka časopisa Blic (na portalu blic.rs).
- April 2020. Publikovana je reklama fakulteta u specijalizovanom časopisu Tekstilna industrija. Reklama je sadržala podatke o svim studijskim programima Fakulteta, kao i kontakt podatke za zainteresovane kandidate.
- Tokom maja 2020. godine, publikovana je i reklama o studijskim programima Tehničkog fakulteta u Boru, u časopisu Tehnika.
- 23.maj.2020. Pripremljen je afirmativni tekst o Fakultetu koji je publikovan na elektronskom portalu časopisa Telegraf (telegraf.rs). U okviru ovog promotivnog teksta, koji je urađen u vidu intervjua sa Dekanom, predstavljeni su svi naši studijski programi, mogućnosti i prednosti studiranja u Boru, mogućnost dobijanja smeštaja u studentskom centru Bor, mogućnost stručne prakse i zapošljenja za diplomirane studente našeg Fakulteta.
- 27. avgust 2020. Takođe, u okviru saradnje sa marketinškom agencijom Europolis, publikovan je promotivni tekst o raspoloživim mestima na Fakultetu, u okviru drugog upisnog roka. Za te svrhe pripremljena je reklama Fakulteta za specijalni dodatak časopisa Politika, pod nazivom „Vodič za bruce“
- Januar – avgust 2020. Nastavljena je uspešna saradnja sa marketinškom agencijom koja uređuje online portal Prijemni.rs. Ovo je portal koji koriste gotovo svi maturanti i studenti u Srbiji jer objedinjuje podatke o svim akreditovanim studijskim programima u Srbiji, materijale za pripremu prijemnih ispita i testove za vežbu iz svih predmeta koji se polažu na prijemnim ispitima u Srbiji. Pored klasičnog web sadržaja, portal sadrži i aplikaciju za mobilno učenje, pod nazivom Maturang, koju koriste hiljade učenika srednjih škola. U sklopu ove saradnje, Tehnički fakultet u Boru je imao na raspolaganju: slanje 1 dizajniranog maila svim registrovanim korisnicima ovog portala; 11 PR obaveštenja; 30 dana prikaza logotipa na naslovnoj strani sajta; slanje 3 notifikacije u aplikaciji Maturang; 10 dana istaknutog logotipa u aplikaciji Maturang. Navedene usluge su korišćene za promociju Fakulteta tokom cele godine, a posebno tokom upisnih rokova. Kod prvog upisnog roka korišćena su PR obaveštenja, prikaz logotipa Fakulteta na naslovnoj strani sajta i u aplikaciji Maturang. U okviru PR obaveštenja, pored klasičnog promotivnog teksta sa reklamom Fakulteta, korišćeni su i PR tekstovi sa važnim vestima, kao što je bila promocija kompanije ZiJin na fakultetu i mogućnost dobijanja stručne prakse za student Fakulteta. U drugom upisnom roku, pored promocije Fakulteta u celini, vršena je i promocija svakog

pojedinačnog studijskog programa. U okviru toga je svake nedelje u avgustu promovisan po jedan od naših studijskih programa, sa svim modulima, i date su informacije o broju raspoloživih mesta u drugom upisnom roku, ako i svi neophodni podaci o upisu. Takođe, korišćene su notifikacije i prikaz logotipa Fakulteta na ovom portalu. Prema zvaničnim statističkim podacima sajta prijemni.rs u periodu od 1. oktobra 2019. godine do 1. oktobra 2020. godine realizovano je ukupno 8.668 poseta stranicama koje predstavljaju osnovne akademske studije na Tehničkom fakultetu u Boru, a od toga:

- 4.598 poseta je realizovana vezano za sadržaj koji daje opšte informacije o Fakultetu, odnosno oko 53,05 procenata,

- 37 poseta realizovano je tipski kontakt podacima vezano za Fakultet, odnosno oko 0,42 procenata,

- 871 poseta je realizovana vezano za sadržaje studijskog programa Rudarsko inženjerstvo, odnosno oko 10,05 procenata,

- 952 poseta je realizovana vezano za sadržaje studijskog programa Metalurško inženjerstvo, odnosno oko 10,98 procenata,

- 1.085 poseta je realizovana vezano za sadržaje studijskog programa Tehnološko inženjerstvo, odnosno oko 12,52 procenata,

- 1.125 poseta je realizovana vezano za sadržaje studijskog programa Inženjerski menadžment, odnosno oko 12,98 procenata.

- Januar – oktobar 2020. Tokom celog navedenog perioda zakupljen je prostor za reklamu Fakulteta na Borskoj televiziji i radiju Bor; radiju M Knjaževac; radiju Magnum Zaječar, kao i na Radiju Trans iz Homolja. Navedene radio stanice, pokrivaju širi region Timočke krajine. U ove svrhe izvršena je i delimična modifikacija radio reklame, gde je zamenjena prateća muzika i snimljen novi tekst reklame. Televizijska reklama je takođe osavremenjena i snimljena je potpuno nova reklama, krajem 2019. godine.
- U oktobru 2020. godine, ponovo je objavljena reklama u časopisu Tekstilna industrija. Reklama je sadržala podatke o svim studijskim programima Fakulteta, kao i kontakt podatke za zainteresovane kandidate za upis.
- 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 2020. godine:
 - broj korisnika koji prate stranicu Tehničkog fakulteta u Boru iznosi 2.114,
 - najveći broj korisnika koji prate objave na stranici su iz Bora, Zaječara, Kladova, Negotina, Jagodine, Leskovca, Niša, Beograda kao i drugih gradova, a objave na stranici konstantno prate i inostrani korisnici iz Austrije, Nemačke, SAD, Švedske, Južne Afrike, Francuske, Belgije, Slovačke, Bugarske, Rusije i Švajcarske, kao i iz bivših jugoslovenskih

republika poput Republike Srpske, Hrvatske, Bosne i Hercegovine i Makedonije, čime se ostvaruje regionalna, ali i međunarodna vidljivost

- postoji jako dobar pozitivan odziv na objave koje su realizovane na stranici datih u pogledu pozitivnih komentara, lajkova, linkovanja na stranicu i ostalih elemenata,

- ne postoje zabeleženi slučajevi negativnih odziva na objave realizovane na stranici,

- ostvarena je jako dobra direktna komunikacija sa korisnicima na stranici preko inboxa na stranici gde korisnici često postavljaju raznovrsna pitanja vezana za delatnost i rad Fakulteta i na svako pitanje se adekvatno odgovara od strane IKTC u konsultaciji sa rukovodstvom Fakulteta i relevantnim službama,

- maksimalno vreme reakcije na zahtev korisnika na stranici (odgovor u inbox, komentari i slično) iznosi oko 8 sati (ovde treba naglasiti da IKTC odgovara u bilo kom momentu kada je u mogućnosti po principu 24/7 - 24 casa, 7 dana u nedelji, što znači da ako neko nešto pita u recimo 16h popodne ne čeka naredni dan na odgovor, nego mu se odgovori u roku od tih 8 sati, npr. u 23h, tako da ovo vreme treba shvatiti kao vrlo dobro)

- postoji konstatni priliv broja novih korisnika koji prati stranicu ili na neki način ima interakciju sa samom stranicom.

- 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 vanredno stanje izazvano pandemijom Kovid 19, sajmovi obrazovanja i nauke se nisu organizovali nakon marta 2020. godine. Samim time, TF Bor je u prošloj školskoj godini imao učešće samo na Sajmu obrazovanja EduFair, u Beogradu, koji je održan pre uvođenja vanrednog stanja, 6-7. mart 2020. god. Takođe, tokom novembra j3 organizovan i virtualni promotivni skup Timički naučni tornado (TNT) na kome su učestvovali i predstavnici sa Fakulteta:

- 6-7. mart, organizovan je EduFair u Beogradu. Tehnički fakultet u Boru se prijavio za ovu manifestaciju, gde je nastupio u delu prostora rezervisanog za fakultete Univerziteta u Beogradu. Za potrebe ovog sajma obrazovanja, urađen je potpuno novi koncept grafičkog dizajna i predstavljanja našeg Fakulteta, koristeći dizajnirani štand. Tim za unapređenje kvaliteta marketinških aktivnosti Fakulteta, zajedno sa predstavnicima svih odseka Fakulteta radio je na dizajnu novih postera koji su promovisali svaki od naših studijskih programa, Fakultet u celini, sve publikacije Fakulteta i konferencije koje se organizuju na našem fakultetu. Takođe, formirana je ekipa koju su činili mlađi predstavnici svih naših studijskih programa koji su realizovali promociju Fakulteta na ovoj manifestaciji.

- 11. novembar, održana je manifestacija deveti Timočki naučni tornado (TNT 2020). Usled pandemijske situacije, ova manifestacija je u potpunosti organizovana online na društvenim mrežama, a deo snimljenog materijala je emitovan i na programu Regionalne TV Bor. U snimanju prezentacija i eksperimenata učestvovalo je 180 učenika borskih osnovnih i srednjih škola i 50 mentora. Ovaj naučni-promotivni skup okupio je 10 institucija u gradu, uključujući i zapaženo učešće Tehničkog fakulteta u Boru. Povod ovogodišnje organizacije bio je Međunarodni dan nauke, 11. novembar.

8. Studijski boravci ili posete univerzitetima iz inostranstva

Nažalost, tokom marta 2020. godine, desila se globalna kriza izazvana pandemijom COVID 19, usled koje su većina zemalja potpisnica ugovora o saradnji, ili predstavnika institucija sa kojima Fakultet ima tradicionalnu internacionalnu saradnju, uvela vanredno stanje. Takođe, veliki broj međunarodnih konferencija planiranih za 2020. godinu je odložen/otkazan, ili je organizacija realizovana online. Samim time, u periodu mart 2020. – decembar 2020. godine je praktično došlo do obustave mobilnosti u okviru međunarodnih projekata. Realizovani studijski boravci istraživača sa Fakulteta:

Januar 2020. god.

- Doc. dr Zoran Štirbanović, boravio je u Prijedoru, Republika Srpska, kao član komisije za ocenu i odbranu doktorske disertacije kandidata Rudarskog fakulteta u Prijedoru, Univerziteta u Banja Luci.

Februar 2020. godine

- Prof. dr Milica Veličković je boravila u Valensiji, Španija, na obuci za postdoktorande u okviru COST akcije CA 17136.

Mart 2020. god.

- Prof. dr Dragoslav Gusković i prof. dr Saša Marjanović, boravili su u Bugarskoj, u mestu Borovec, na XVII internacionalnom simpozijumu MTM.
- Prof. dr Ivan Mihajlović, doc. dr Nenad Milijić, prof. dr Đorđe Nikolić, doc. dr Aleksandra Fedajev i doc. dr Sanela Arsić, boravili su u Magdeburgu u Nemačkoj, na

treningu "SAP Analytics" u sklopu nastavnog programa SAP University Alliances, projekta SET –SAP.

Septembar 2020. god.

- asistent Jelena Ivaz i asistent Pavle Stojković, su boravili na Internacionalnoj školi rudarstva "DIM ESEE", u okviru CEEPUS mobilnosti.
- Prof. dr Miodrag Banješević je boravio u Švajcarskoj i Francuskoj na Institutu za nuklearne nauke, u okviru saradnje na projektu TR 451-03-68/2020-14/200131

Decembar 2020. god.

- Prof. dr Miodrag Banješević je boravio na Rudarsko-geološkom fakultetu u Štipu, u okviru saradnje na projektu TR 451-03-68/2020-14/200131

9. Studijski boravci ili posete sa drugih univerziteta iz inostranstva

Februar 2020. god

▪ Dana 20. i 21.02.2020. godine je održana radionica u okviru IPA projekta pod nazivom: Academic Environmental Protection Studies on surface water quality in significant cross-border nature reservations Djerdap / Iron Gate national park and Carska Bara special nature reserve, with population awareness raising workshops (RORS-462). Projekat je podržan od strane Evropske unije, u okviru programa prekogranične saradnje Srbije i Rumunije Interreg –IPA CBC, a institucije učesnice na projektu su : University Politehnica Timisoara iz Rumunije i Tehnički fakultet u Boru, Univerziteta u Beogradu.

Mart 2020. god

▪ Na Tehničkom fakultetu u Boru , u periodu od 4. do 8. marta 2020 godine, boravio je dekan Rudarsko-geološko-građevinskog fakulteta Univerziteta u Tuzli, prof. dr Kemal Gutić. Tokom posete prof. dr Gutić je održao predavanje za studente osnovnih akademskih studija studijskog programa Rudarsko inženjerstvo. Takođe, razmatrana su pitanja koja se odnose na nastavak aktivne poslovno-tehničke saradnje, realizacije predstojećih zajedničkih aktivnosti u okviru Erasmus+ programa i izvođenja zajedničke stručne prakse studenata.

10. Prezentacije, predavanja i nagrade

Februar 2020. god

- Dana 11.02.2020. godine Tehnički fakultet u Boru je posetila delegacija kompanije Kromberg & Schubert Srbija d.o.o. iz Kruševca. U delegaciji su bili Jelena Jovanović, predstavnik sektora nabavke; Miloš Stojanović, menadžer ljudskih resursa i Ivana Bojović Ivković iz sektora ljudskih resursa ove kompanije. Na sastanku sa dekanom Tehničkog fakulteta u Boru, prof. dr Nadom Štrbac i prodekanom za NiR i MS, prof. dr Ivanom Mihajlovićem, dogovoreni su dalji koraci u realizaciji stručne prakse studenata našeg Fakulteta u ovoj kompaniji.

- Podružnica Srpskog hemijskog društva (SHD) Bor održala je Godišnju izbornu sednicu skupštine dana, 6. februara 2020. godine, u svečanoj sali Tehničkog fakulteta u Boru. Tom prilikom usvojen je izveštaj o radu Podružnice za 2019. godinu, kao i plan rada za 2020. godinu. Izabrano je i novo rukovodstvo Podružnice u sastavu: prof. dr Slađana Alagić – predsednik; Uroš Stamenković – sekretar; prof. dr Nada Štrbac – predstavnik Podružnice u upravnom odboru SHD; članovi predsedništva – prof. dr Velizar Stanković, prof. dr Svetlana Ivanov, prof. dr Dragan Manasijević, prof. dr Marija Petrović Mihajlović i doc. dr Maja Nujkić.

Jun 2020. god

- U amfiteatru Tehničkog fakulteta u Boru, 18. juna 2020. godine, kompanija Serbia Zijin Copper DOO predstavila je mogućnost stručne prakse za studente završnih godina Tehničkog fakulteta u Boru. Kompaniju Serbia Zijin Copper DOO su na Tehničkom fakultetu u Boru predstavili direktor za ljudske resurse Huang Zhaoyu, rukovodilac Sektora za ljudske resurse Xu Chao, direktor za proizvodnju Jovica Radisavljević, rukovodilac Sektora za ljudske resurse Mirjana Popadić, saradnici Ilija Džamić i Vera Tasić.