Универзитет у Београду
Технички факултет у Бору
Број: VI/4-25-3
Бор, 14. 02. 2019. године

На основу чл. 49. Статута Техничког факултета у Бору, Наставно научно веће Факултета, на седници одржаној 14. 02. 2019. године, донело је

О Д Л У К У

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2018. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2018. години, саставни је део ове Одлуке.

Доставити:
- председнику Комисије
- продекану за НИР
- архиви

ПРЕДСЕДНИК
НАСТАВНО-НАУЧНОГ ВЕЋА

ДЕКАН
Проф. др Нада Штрбац

УНИВЕРЗИТЕТ У БЕОГРАДУ
ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ
1961

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 meseca 2018. godine, sprovela je postupak vrednovanja rezultata naučno-istraživačkog rada i međunarodne saradnje nastavnika i saradnika, za prethodnu 2017. 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 Dejan Tanikić, prodekan za NIR i MS, rukovodilac,
- Prof. dr Saša Stojadinović, član i
- Asis. Uroš Stamenković, član.

Vrednovanje rezultata naučnog rada urađeno je januara meseca 2019. 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 Dejan Tanikić, prikupio je i obradio potrebne podatke i sačinio **Godišnji izveštaj o rezultatima ostvarenim u naučnoistraživačkom radu i međunarodnoj saradnji za 2018. 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 2018.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 2018. 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.

3. ZAKLJUČCI

Nakon sprovedenog postupka vrednovanja i obrade dobijenih podataka, koje su ostvarili nastavnici i saradnici u oblasti naučnoistraživačkog rada i međunarodne saradnje u 2018. godini, zaključeno je sledeće:

1. U poređenju sa rezultatima postignutim u 2017. godini, rezultati postignuti u 2018. godini slabiji su u sledećim kategorijama:

M20	za 28 referenci ili za	30,10 %
M30	za 62 reference ili za	34,06 %
M40	za 3 reference ili za	75,00 %
M50	za 11 referenci ili za	26,83 %
M60	za 5 referenci ili za	20,00 %
M70	za 3 reference ili za	100,00 %

2. U poređenju sa rezultatima postignutim u 2017. godini, rezultati postignuti u 2018. godini bolji su u sledećim kategorijama:

M10		za 1 referencu ili za	14,28 %
Citiranost	br. radova	za 1 rad ili za	0,40 %
	br. citata	za 103 citata ili za	19,07 %
Projekti za privredu		za 1 projekat ili za	9,09 %

3. U poređenju sa rezultatima postignutim u 2017. godini, rezultati postignuti u 2018. godini ostali su na istom nivou u sledećim kategorijama:

Međunarodni projekti

Projekti MPNR RS

Udžbenici

Organizovanje naučnih skupova

Publikovanje časopisa

4. Ostvareni rezultati ukupno se ocenjuju kao slabiji u odnosu na 2018. godinu.

Tabela 1 *– Zbirni prikaz rezultata NIR-a Tehničkog fakulteta u Boru za 2018. god.*

Tip rezultata - kategorija, prema MPNTR RS	Broj ostvarenih rezultata	UKUPNO
M13	4	M10 – 8
M14	2	
M17	2	
M21a + M21	3+6=9	M20 - 65
M22	15	
M23	24	
M24	14	
M29a	1	
M29b	1	
M29v	1	
M31	6	M30 - 120
M32	2	
M33	89	
M34	22	
M36	1	
M42	1	M40 – 1
M51	7	M50 – 30
M52	10	
M53	11	
M55	2	
M61	5	M60 – 20
M62	1	
M63	7	
M64	6	
M66	1	
Udžbenici	5	5
Citiranost	222 rada citirana 643 puta	
Projekti finansirani od strane MPNTR RS	26	
Međunarodni projekti	8	
Projekti finansirani od strane privrede i ostali projekti	12	
Učešće u organizaciji nučnih skupova	5 međunarodnih naučnih skupova + 1 međunarodna studentska konferencija	
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 2018. godine*

Slika 2 – *Grafički pregled broja citata u časopisima sa IF (JCR lista) za period od 2007. do 2018. godine*

***Tabela 2** – Pregled broja rezultata grupa M30, M60, M70 i M80 za period od 2010. do 2018. godine*

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

***Slika 3** – Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici za period od 2007. do 2018. godine*

Prilog: Godišnji izveštaj o rezultatima NIR-a za 2018. godinu

U Boru, februar 2019. 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 2017. godinu

Универзитет у Београду,
Технички факултет у Бору

Годишњи извештај о резултатима оствареним у научно-истраживачком раду и међународној сарадњи за 2018. годину

Бор,
фебруар 2019. године

ОСНОВНИ ПОДАЦИ

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2018. 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 на којима су укључени 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, учешће на сајмовима, научна предавања и друге активности), Прилог 6

У складу са *Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача* 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 2018. године, који су представљени у прилозима може се закључити следеће:

1. Публиковане монографске студије и радови у међународним часописима, категорије М10+М20: 8+65=73 рада
2. Публиковани радови у националним часописима, категорије М50: 30 радова
3. Публиковане монографије, зборници радова, уџбеници: 1 монографија категорије М40, 1 зборник са међународног научног скупа категорије М30 и 5 уџбеника
4. Саопштени радови на међународним (М30) и националним (М60) скуповима: 120+20=140 радова
5. Ангажовање на пројектима:
    a. Пројекти код Министарства просвете науке и технолошког развоја Републике Србије: 26 (4 ИИИ, 9 ОИ, 13 ТР, од тога 5 пројекта на којима су руководиоци истраживачи са ТФ Бор)
    b. Међународни пројекти: 8
    c. Пројекти финансирани од стране привреде и остали пројекти: 12
6. Цитираност у 2018. години (SCOPUS резултати): 222 рада цитирана 643 пута

Збирни приказ резултата НИР-а за 2018. годину дат је у Табели 1.

Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2018. год.

Тип резултата - категорија, према МПНТР РС	**Број остварених резултата**	**УКУПНО**
M13	4	M10 – 8
M14	2	
M17	2	
M21a + M21	3+6=9	M20 - 65
M22	15	
M23	24	
M24	14	
M29a	1	
M29b	1	
M29v	1	
M31	6	M30 - 120
M32	2	
M33	89	
M34	22	
M36	1	
M42	1	M40 – 1
M51	7	M50 – 30
M52	10	
M53	11	
M55	2	
M61	5	M60 – 20
M62	1	
M63	7	
M64	6	
M66	1	
Уџбеници	5	5
Цитираност	222 рада цитирана 643 пута	
Пројекти финансирани од стране МПНТР РС	26	
Међународни пројекти	8	
Пројекти финансирани од стране привреде и остали пројекти	12	
Учешће у организацији нучних скупова	5 међународна научна скупа + 1 међународна студентска конференција	
Публиковани часописи	4 научна часописа + 1 студентски часопис	

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

Слика 1. Компаративни приказ броја радова објављених у међународним и домаћим часописима (М20 и М50) на ТФ Бор у периоду 2007. – 2018. год.

Слика 2. Компаративни приказ броја домаћих, међународних и пројеката са привредом реализованих на ТФ Бор у периоду 2007. – 2018. год.

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

Табела 2. Компаративни приказ броја резултата категорија М30, М60, М70 и М80 у периоду 2010. – 2018. год.

Слика 3. Компаративни приказ броја цитата на JCR листи за ТФ Бор у периоду 2007. – 2018. год.

Када се у обзир узме актуелно стање и постојећи проблеми у просвети и науци у Србији данас, остварени резултати активности из области НИР и МС могу се сматрати задовољавајућим. Поређење са претходним периодом указује на значајнији квантитативни пад броја објављених радова у међународним часописима – М20: 2012.год.–97, 2013.год.–81, 2014.год.–83, 2015.год.–77, 2016.год.–76 и 2017.год.–96, 2018.год.–65, као и нешто блажи пад у броју публикованих радова у домаћим часописима – М50: 2012.год.–58, 2013.год.–51, 2014.год.–39, 2015.год.–42, 2016.год.–24 и 2017.год.–33, 2018.год.–30, Слика 1.

Током 2018. године настављено је финасирање текућих пројекта од стране Министарства просвете, науке и технолошког развоја Републике Србије, при чему је број пројеката на којима су учествовали истраживачи са ТФ Бор на истом нивоу као и претходних година. Истраживачи са ТФ Бор учествовали су током 2018. године на 8 међународних пројеката, идентично као и претходне године. У области сарадње са привредом, у 2018. години урађена су 6 пројекта, 1 студија и 2 елабората, као и 3 техничке контроле пројеката и вештачења, Слика 2.

Квантитативни пад се уочава у броју саопштења на међународним скуповима – М60: 2012.год.–161, 2013.год.–174, 2014.год.–165, 2015.год.–191, 2016.год.–158, 2017.год.–175, 2018.год.–120, а нешто блажи пад и у броју саопштења на домаћим скуповима – М60: 2012.год.–70, 2013.год.–44, 2014.год.–32, 2015.год.–33, 2016.год.–6 и 2017.год.–24, 2018.год.–20, Табела 2.

Што се тиче цитираности, уочава се значајније повећање броја цитираних радова као и укупног броја цитата на JCR листи: 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, Слика 3.

Радови категорије М21-М23 које су током 2017. године публиковали запослени на Техничком Факултету у Бору припадају следећим научним областима:
Chemistry, Physical (7 радова), Materials Science, Multidisciplinary (7 радова), Metallurgy & Metallurgical Engineering (4 рада), Economics (2 рада), Environmental Studies (2 рада), Environmental Sciences (7 радова), Ecology, Engineering, Civil (2 рада), Water Resources (3 рада), Operations Research & Management Science, Mathematics, Applied, Physics, Atomic, Molecular & Chemical, Engineering, Mechanical, Thermodynamics (5 радова), Mining & Mineral Processing, Multidisciplinary Sciences, Chemistry, Analytical, Engineering, Electrical & Electronic (7 радова), Engineering, Chemical, Computer Science, Hardware & Architecture, Computer Science, Interdisciplinary Applications (2 рада), Business (2 рада), Acoustics, Engineering, Environmental, Computer Science, Artificial Intelligence (4 рада), Mathematics, Automation & Control Systems, Computer Science, Information Systems, Chemistry, Applied, Engineering, Chemical, Transportation Science & Technology (2 рада), Physics, Fluids & Plasmas, Materials Science, Textiles, Chemistry, Multidisciplinary, Management, Materials Science, Characterization & Testing.

Током 2018. 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. Факулет је наставио да издаје своја четири традиционална 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 протекле године Технички факултет у Бору је учествовао у организацији пет научних скупова:

- XXVI International Conference Ecological Truth and Environmental Research (EcoTER 2018), Борско језеро, Србија, 12.-15. јун 2018. године
- 14th International May Conference on Strategic Management (MKSM 2018), Бор, 25.-27. мај 2018. године
- 50th International October Conference on Mining and Metallurgy (IOC 2018), Борско језеро, 30. септембар - 03. октобар 2018. године
- 8th International Symposium on Environmental and Materials Flow Management (EMFM 2018), Зеница, Босна и Херцеговина, 14.-16. новембар 2018. године
- XII Savjetovanje hemičara, tehnologa i ekologa RS, Бања Врућица, Теслић, Босна и Херцеговина, 02.-03. новембар 2018. године

У оквиру скупа МКСМ 2018 организован је студентски симпозијум: 14. Студентски симпозијум о стратегијском менаџменту, док је у оквиру скупа EcoTER 2018 организована студентска секција.

Током 2018. године настављена је сарадња са многобројним организацијама из земље и иностранства. Потписани су бројни билатерални споразуми и уговори о пословно-техничкој сарадњи са релевантним високошколским организацијама, научним институтима и другим установама из сродних области из Србије и иностранства.

Настављен је рад академских мрежа у којима је ТФ Бор активан партнер: Resita Network, MET-NET мрежа, EURAXESS žamre Српска национална мрежа технолошких брокера. Кроз актуелне међународне пројекте и скупове које Факултет организује, остварени су даљи значајни контакти са академским и научним институцијама, са циљем развоја даљих активности у смислу међународне размене студената и наставног особља.

У току 2018. године остварена је мобилност студената и наставника у оквиру међународних пројеката. Тако су, у оквиру програма Европске уније ERASMUS+KA1 студенти основних студија одсека за Инжењерски менаџмент у току пролећног семестра 2018. године имали могућност да део школовања остваре у иностранству (Мађарска), док су у оквиру међународног SATREPS пројекта, који се већ дужи низ година реализује са Јапаном, студенти основних студија из Јапана боравили на Техничком факултету у Бору.

Акције везане за промоцију и популаризацију науке код младих настављне су и током 2018. године – одржан је Први међународни фестивал науке Тимочки научни торнадо у Видину, Борска Ноћ истраживача – БОНИС 2018, одржана на градском шеталишту у Бору, Фестивал науке ТНТ Бор 2018, одржан у просторијама

О.Ш. „3. октобар“ у Бору, као и Фестивал науке ТНТ Неготин 2018, одржан у просторијама О.Ш. „Вук Караџић“ у Неготину.

У оквиру прославе Дана студената Универзитета у Београду (4. април 2018. године) одржана је манифестација „Дан отворених врата“ са циљем упознавања будућих бруцоша са могућностима студирања на Техничком Факултету у Бору. Дана 1. октобра 2018. године, на Техничком факултету у Бору, обележен је почетак нове школске године традиционалном манифестацијом „Open Day 2018“.

Технички Факултет у Бору је у 2018. години имао и запажено учешће на четири сајма: Први Сајам образовања Универзитета у Београду, 11. Сајам образовања и стипендија “Моја каријера, мој избор” у Нишу, 62. Међународни сајам технике и техничких достигнућа у Београду и 49. Сајам образовања и наставних средстава „Образована Србија, успешна Србија“ у Београду.

На основу свега изложеног може се закључити да су резултати у области научно-истраживачког рада и међународне сарадње на Техничком факултету у Бору, Универзитета у Београду, током 2018. године били задовољавајући, али да свакако треба радити на томе да они у предстојећем периоду буду још бољи.

у Бору, 28. 01. 2018. године

Подносилац извештаја

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проф. др Дејан Таникић

продекан за НИР и МС ТФ Бор

Prilog 1.

PREGLED REZULTATA NIR-A KOJE SU OSTVARILI NASTAVNICI I SARADNICI TEHNIČKOG FAKULTETA U BORU U 2018. GODINI

Tip rezultata/kategorija prema MPNTR RS	Broj ostvarenih rezultata
M13	4
M14	2
M17	2
M21a	3
M21	6
M22	15
M23	24
M24	14
M29a	1
M29b	1
M29v	1
M31	6
M32	2
M33	89
M34	22
M36	1
M42	1
M51	7
M52	10
M53	11
M55	2
M61	5
M62	1
M63	7
M64	6
M66	1
Udžbenici	5

M13 - 4

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Prilog 3.

SPISAK DOMAĆIH PROJEKATA NA KOJIMA SU 2018. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti finansirani od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije:

OI projekti - 9 projekata (rukovodioci 2 projekta su istraživači sa TF Bor)
TR projekti - 13 projekata (rukovodioci 3 projekta su istraživači sa TF Bor)
III projekti - 4 projekta

Red. br.	Naziv projekta	Istraživači (broj istraživač meseci)	Broj projekta	Nosilac (koordinator)	Rukovodilac
1.	Razvoj tehnologija flotacijske prerade ruda bakra i plemenitih metala radi postizanja boljih tehnoloških rezultata	Zoran Štirbanović (4), Dragiša Stanujkić (8)	TR 33023	Institut za rudarstvo i metalurgiju Bor	Dragan Milanović
2.	Monitoring elektromagnetnih zračenja mobilnih telekomunikacionih sistema u životnoj sredini, analiza molekularnih mehanizama i biomarkera oštećenja kod hronične izloženosti sa razvojem modela za procenu rizika i metoda za zaštitu od zračenja	Čedomir Maluckov (2)	III 43012	Medicinski fakultet u Nišu	Dušan Sokolović
3.	Zajednička istraživanja i uticaja jonizujućeg i UV zračenja u oblasti medicine i zaštite životne sredine	Čedomir Maluckov (6)	III 43011	Elektronski fakultet u Nišu	Goran Ristić
4.	Magmatizam i geodinamika Balkanskog poluostrva od mezozoika do danas: značaj za obrazovanje metaličnih i nemetaličnih rudnih ležišta	Miodrag Banješević (6)	OI 176016	Rudarsko-geološki fakultet u Beogradu	Vladica Cvetković
5.	Virtuelni koštano zglobni sistem čoveka i njegova primena u predkliničkoj i kliničkoj praksi	Dejan Tanikić (6)	III 41017	Mašinski fakultet u Nišu	Miroslav Trajanović
6.	Minerali Srbije: sastav, struktura, geneza, primena i doprinos održanju životne sredine	Mira Cocić (8)	OI 176010	Rudarsko-geološki fakultet u Beogradu	Mihovil Logar
7.	Nov pristup dizajniranju materijala za konverziju i skladištenje energije	Mirjana Rajčić – Vujasinović, Zoran Stević (8), Vesna Grekulović (2)	OI 172060	Institut za hemiju, tehnologiju i metalurgiju u Beogradu	Vladimir Panić

8.	Razvoj i primena distribuiranog sistema nadzora i upravljanja potrošnjom električne energije kod velikih potrošača	Darko Brodić, Vladimir Despotović (4), Srba Mladenović (8)	TR 33037	Institut za rudarstvo i metalurgiju Bor	Viša Tasić
9.	Funkcionalna analiza, stohastička analiza i primene	Ivana Đolović (8), Ivana Stanišev (0)	OI 174007	Prirodno matematički fakultet u Nišu	Dragan Đorđević
10.	Razvoj naprednih materijala i tehnologija za multifunkcionalnu primenu zasnovanih na ekološkom znanju	Vladimir Despotović (4), Dejan Tanikić (2)	TR 34005	Institut za rudarstvo i metalurgiju Bor	Ana Kostov
11.	Razvoj tehnoloških procesa prerade nestandardnih koncentrata bakra u cilju optimizacije emisije zagađujućih materijala	Nada Štrbac (8), Ivan Mihajlović (8), Milovan Vuković (4), Dejan Bogdanović (8), Aleksandra Mitovski (8), Milica Arsić (8), Đorđe Nikolić (8), Ivan Jovanović (8), Isidora Milošević (8), Predrag Đorđević (8)	TR 34023	**Tehnički fakultet u Boru**	**Nada Štrbac**
12.	Razvoj novih i unapređenje postojećih tehnoloških postupaka proizvodnje tehničkih tekstilnih materijala	Snežana Urošević (4)	TR 34020	Tehnološki fakultet u Leskovcu	Dušan Trajković
13.	Neki aspekti rastvaranja metala i prirodnih minerala	Milan Antonijević (8), Snežana Milić (8), Grozdanka Bogdanović (8), Mile Dimitrijević, Marija Petrović Mihajlović (0), Milan Radovanović (8), Ana Simonović (8), Maja Trumić (8), Žaklina Tasić (8), Maja Nujkić (8)	OI 172031	**Tehnički fakultet u Boru**	**Milan Antonijević**
14.	Razvoj novih inkapsulacionih i enzimskih tehnologija za proizvodnju biokatalizatora i biološko aktivnih supstanci hrane u cilju povećanja njene konkurentnosti, kvaliteta i bezbednosti	Snežana Šerbula (6), Nenad Vušović (2), Slađana Alagić (8), Snežana Urošević (4), Ana Radojević (6), Tanja Kalinović (6), Milan Gorgievski (4), Jelena Milosavljević (8), Jelena Kalinović (6)	III 46010	Tehnološko metalurški fakultet u Beogradu	Zorica Knezević-Jugović
15.	Implementacija savremenijih tehničko-tehnoloških i ekoloških rešenja u postojećim proizvodnim sistemima Rudnika bakra Bor i Rudnika bakra Majdanpek	Milan Trumić (8), Jovica Sokolović (4), Zoran Štirbanović (4)	TR 33007	Institut za tehnologiju nuklearnih i drugih mineralnih sirovina Beograd	Vladan Milošević

16.	Savremeni višekomponentni metalni sistemi i nanostrukturni materijali sa različitim funkcionalnim svojstvima	Dragan Manasijević (8), Ljubiša Balanović (8), Uroš Stamenković (8)	OI 172037	**Tehnički fakultet u Boru**	**Dragan Manasijević**
17.	Dinamika hibridnih sistema	Jelena Đoković (8), Saša Kalinović (8)	OI 174001	Matematički institut SANU Beograd	Katica Stevanović Hedrih
18.	Razvoj tehnologije proizvodnje Rd katalizatora-hvatača za smanjenje gubitaka platine u visoko temperaturnim procesima katalize	Saša Marjanović (4)	TR 34029	Institut za rudarstvo i metalurgiju Bor	Biserka Trumić
19.	Osvajanje proizvodnje livenih legura Cu-Au,Cu-Ag,Cu-Pt,Cu-Pd,Cu-Rh poboljšanih svojstava primenom mehanizma ojačavanja žarenjem	Desimir Marković, Dragoslav Gusković (8), Svetlana Ivanov (6), Ivana Marković (8), Saša Marjanović (4), Vesna Grekulović (6), Jasmina Petrović (8)	TR 34003	**Tehnički fakultet u Boru**	**Ivana Marković**
20.	Razvoj ekoloških i energetski efikasnijih tehnologija za proizvodnju obojenih i plemenitih metala kombinacijom bioluženja, solventne ekstrakcije i elektrolitičke rafinacije	Svetlana Ivanov (2)	TR 34004	Institut za rudarstvo i metalurgiju Bor	Vesna Conić
21.	Istraživanje i praćenje promena naponsko – deformacionog stanja u stenskom masivu „in sity“ oko podzemnih prostorija sa izradom modela sa posebnim osvrtom na tunel Kriveljske reke i Jame Bor	Vitomir Milić (2)	TR 33021	Institut za rudarstvo i metalurgiju Bor	Milenko Ljubojev
22.	Problemi nelinearne analize, teorije operatora, topologije i primene	Darko Kocev (8)	OI 174025	Prirodno matematički fakultet u Nišu	Vladimir Rakočević
23.	Usavršavanje tehnologije eksploatacije i prerade rude bakra sa monitoringom životne i radne sredine u RTB Bor-Grupa	Radoje Pantović (8), Nenad Vušović (6), Vitomir Milić (6), Miodrag Žikić (8), Snežana Šerbula (2), Miodrag Banješević (2), Saša Stojadinović (8), Jovica Sokolović (4), Dejan Petrović (8), Ana Radojević (2), Tanja Kalinović (2), Jelena Kalinović	TR 33038	**Tehnički fakultet u Boru**	**Nenad Vušović**
24.	Održivost identiteta Srba i nacionalnih manjina u pograničnim opštinama istočne i jugoistočne Srbije	Milovan Vuković (4), Danijela Voza (8)	OI 179013	Mašinski fakultet u Nišu	Dragoljub Đorđević
25.	Razvoj tehnologije za reciklažu plemenitih, retkih i pratećih metala iz čvrstog otpada Srbije do visokokvalitetnih proizvoda	Milan Gorgievski (4)	TR 34024	Institut za rudarstvo i metalurgiju Bor	Silvana Dimitrijević
26.	Razvoj modela male hidroelektrane za izolovano napajanje ribnjaka, i mikromreže sa različitim obnovljivim izvorima energije	Milena Jevtić (8)	TR 33046	Fakultet tehničkih nauka Kosovska Mitrovica	Miroljub Jevtić

Prilog 4.

SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2018. 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.-2019.**

   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: 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, doc. dr Milan Gorgijevski, doc. dr Aleksandra Mitovski, doc. dr Tanja Kalinović, doc. dr Maja Trumić, doc. dr Ana Radojević, doc. dr Žaklina Tasić i ass. Boban Spalović.

   Vrsta projekta: Internacionalni istraživački projekat

2. **Istraživački projekat Hrvatske zaklade za znanost: Dizajniranje mikrostrukture i funkcionalnih svojstava legura s prisjetljivosti oblika na bazi bakra, 2015.-2019.**

   Institucije učesnice na projektu: Metalurški fakultet u Sisku Sveučilišta u Zagrebu (Hrvatska), Kemijsko-tehnološki fakultet Split Sveučilišta u Splitu (Hrvatska), Fakultet za strojništvo (Inštitut za tehnologijo materialov) Univerze v Mariboru (Slovenija), Naravoslovno-tehniška fakulteta Univerze v Ljubljani (Slovenija), Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija), i Fakultet za metalurgiju i materijale Univerziteta u Zenici (Bosna i Hercegovina).

   Rukovodilac projekta: prof. dr Mirko Gojić (Hrvatska)

   Saradnici na projektu: prof. dr Ladislav Vrsalović (KTF Split), prof. dr Borut Kosec (NTF Ljubljana), prof. dr Ivan Anžel (FS-ITM Maribor), prof. dr Dragan Manasijević (TF

Bor), prof. dr Stjepan Kožuh, prof. dr Robert Pezer, doc. dr Tamara Holjevac Grgurić (MF Sisak).

Vrsta projekta: Internacionalni istraživački projekat

3. **Program naučne i tehnološke saradnje Srbije i Crne Gore: Ispitivanje termičkih, strukturnih i mehaničkih visokolegiranih alatnih čelika, 2016.-2018.**

   Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija), Metalurško-tehnološki fakultet u Podgorici Univerziteta Crne Gore (Crna Gora).

   Rukovodioci projekta: prof. dr Nada Štrbac (Srbija) i prof. dr Žarko Radović (Crna Gora). *Saradnici sa Tehničkog Fakulteta u Boru:* prof. dr Nada Štrbac, prof. dr Dragan Manasijević, doc. dr Ljubiša Balanović, doc. dr Aleksandra Mitovski i doc. dr Milan Gorgievski.

   Vrsta projekta: Bilateralni istraživački projekat

4. **Program bilateralne saradnje Srbije i Slovačke: Obrada signala primenom modela frakcionog reda, 2017.-2018.**

   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) i Tomaš Škovranek, naučni saradnik (Slovačka).

   Saradnici sa Tehničkog Fakulteta u Boru: doc. dr Vladimir Despotović

   Vrsta projekta: Bilateralni istraživački projekat

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”, 2015.-2018.**

   Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija) i Obuda University Budapest, Keleti Faculty of Business and Management, Budimpešta (Mađarska).

   Rukovodioci projekta: dr Marosi Ildiko (Mađarska) i prof. dr Ivan Mihajlović (Srbija)

   Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Ivan Mihajlović, doc. dr Predrag Đorđević, prof. dr Đorđe Nikolić, prof. dr Ivana Đolović, doc. dr Aleksandra Fedajev, doc. Dr Milica Arsić, prof. dr Isidora Milošević, doc. dr Danijela Voza, Violeta Stojanović, Milica Niculović

   Vrsta projekta: Projekat 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.-2019.**

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

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

   Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Ivan Mihajlović, Enisa Nikolić, Milica Niculović

   Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

7. **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”, 2016.-2020.**

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

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

   Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Ivan Mihajlović, prof. dr Đorđe Nikolić

   Vrsta projekta: Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

8. **International VISEGRAD project, 21820267: How to prevent SMEs from failure (Actions based on comparative analysis in Visegrad countries and Serbia), 2018.-2019.**

   Institucije učesnice na projektu: Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija), University of Ss. Cyril and Methodius in Trnava (Slovačka), Keleti Faculty of Business and Management Óbuda University (Mađarska), Tomas Bata University in Zlin (Republika Češka) i The Managers of Quality and Production Association (Poljska)

   Rukovodilac projekta: prof. dr Ivan Mihajlović (Srbija)

   Saradnici sa Tehničkog Fakulteta u Boru: prof. dr Ivan Mihajlović, prof. dr Isidora Milošević, Anđelka Stojanović, asistent.

   Vrsta projekta: Internacionalni istraživački projekat

Prilog 5.

SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2018. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti, studije, elaborati

1. M. Žikić, R. Pantović, S. Stojadinović, D. Petrović, P. Stojković, Glavni rudarski projekat trajne obustave radova i zatvaranja rudnika na lokalitetu Velika Poljana kod Rgotine – grad Zaječar, 2018.
2. S. Mladenović, I. Marković, J. Petrović, Tehno-ekonomska analiza nove linije sinterovanja u kompaniji DOO Martenzit, 2018.
3. J. Sokolović, M. Žikić, R. Pantović, V. Milić, S. Stojadinović, D. Riznić, DRP postrojenja za proizvodnju filter antracita i studija izvodljivosti eksploatacije antracita i proizvodnje filter antracita u RA Vrška Čuka – Avramica, 2018.
4. V. Grekulović, Inoviranje postojećeg studijskog programa iz oblasti metalurškog inženjerstva, 2018./2019.
5. Z. Stević, D. Milenković, Razvoj i izrada prototipa visokotemperaturnog sistema za termički tretman materijala, 2018.
6. S. Stojadinović, M. Žikić, D. Petrović, J. Ivaz, M. Radovanović, P. Stojković, M. Voza, Elaborat o nultom stanju objekata u okolini radilišta na portalu istražnih niskopa, 2018.
7. S. Stojadinović, R. Pantović, M. Žikić, D. Petrović, J. Ivaz, M. Radovanović, P. Stojković, M. Voza, Projekat seizmičkog monitoringa miniranja na izradi niskopa prema Rudarskom projektu na istraživanju čvrstih mineralnih sirovina na hidrotermalnom Cu-Au sistemu Čukaru Peki, 2018.
8. R. Pantović, J. Ivaz, Izrada mesečnih izveštaja i Elaborata o analizi rezultata monitoringa seizmičkih efekata pri izvođenju miniranja na površinskom kopu „Veliki Krivelj“, 2018.
9. R. Pantović, J. Ivaz: Studija o rezultatima monitoringa seizmičkih efekata pri izvođenju miniranja na površinskom kopu "Južni Revir", 2018.

Tehničke kontrole projekata, veštačenja

1. V. Milić, J. Petrović, Tenička kontrola „Tehničkog rudarskog projekta TS 10/0,4 kV, 400 kVA, „GP-1“ na koti 590 i priključnog 10 kV kablovskog voda na „Rudniku““, 2018.
2. S. Stojadinović, R. Pantović, M. Žikić, D. Petrović, J. Ivaz, M. Radovanović, P. Stojković, M. Voza, Praćenje reakcije objekata u okolini radilišta na portalu na vibracije tla usled miniranja i izrade Izveštaja povodom istog, 2018.
3. S. Stojadinović, R. Pantović, D. Petrović, Obrada i analiza rezultata merenja intenziteta vibracija tla i izrada mesečnih izveštaja, 2018.

Prilog 6.

OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2018. GODINI

1. Izdavanje časopisa

TF Bor izdaje četiri naučna časopisa: *Journal of Mining and Metallurgy, Section A: Mining* (JMM-A); *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) 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 2018. godinu).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, svrstan je u kategoriju **M22,** sa IF(2017)=1,400 i mesto 32/75 (prema kategorizaciji naučnih časopisa u oblasti Metallurgy & Metallurgical Engineering, za 2017. godinu), kao i petogodišnji IF=1,199 i mesto 35/75 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 2018. godinu).
- **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 2018. godinu).

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

2. Organizacija i suorganizacija naučnih skupova

- **XXVI International Conference Ecological Truth and Environmental Research (EcoTER 2018)**, Borsko jezero, Srbija, 12.-15. jun 2018. godine. Organizator je Univerzitet u Beogradu, Tehnički Fakultet u Boru a suorganizatori: Univerzitet u Banjoj Luci,

Tehnološki fakultet u Banjoj Luci, Univerzitet Crne Gore, Metalurško – tehnološki fakultet u Podgorici, Univerzitet u Zagrebu, Metalurški fakultet u Sisku, i Društvo mladih istraživača Bor. Skup je finansiran od strane MPNTR RS (predsednik organizacionog odbora je prof. dr S. Šerbula).

- **14th International May Conference on Strategic Management (MKSM 2018)**, Bor, 25.-27. maj 2018. godine. Organizator je Univerzitet u Beogradu, Tehnički Fakultet u Boru. Skup je finansiran od strane MPNTR RS (predsednik organizacionog odbora je doc. dr P. Djordjević).
- **50th International October Conference on Mining and Metallurgy (IOC 2018)**, Borsko jezero, 30. septembar - 03. oktobar 2018. godine. Organizator je Institut za rudarstvo i metalurgiju u Boru a suorganizator Univerzitet u Beogradu, Tehnički Fakultet u Boru (potpredsednik organizacionog odbora je prof. dr D. Tanikić).
- **8th International Symposium on Environmental and Materials Flow Management (EMFM 2018)**, Zenica, Bosna i Hercegovina, 14.-16. novembar 2018. godine. Organizator je Univerzitet u Zenici, Mašinski fakultet u Zenici, Bosna i Hercegovina, a suorganizatori: Univerzitet u Beogradu, Tehnički Fakultet u Boru i Trier University of Applied Sciences, Environmetal Campus in Birkenfeld, Germany (potpredsednik organizacionog odbora je prof. dr Đ. Nikolić).
- **XII Savjetovanje hemičara, tehnologa i ekologa RS**, Banja Vrućica, Teslić, Bosna i Hercegovina, 02.-03. novembar 2018. 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 2018** organizovan je studentski simpozijum: **14. Studentski simpozijum o strategijskom menadžmentu** (predsednik organizacionog odbora je MSc I. Nikolić). U okviru skupa **EcoTER 2018** organizovana je i studentska sekcija.

3. Potpisani sporazumi o bilateralnoj saradnji sa fakultetima i institucijama iz inostranstva

- Chemical Department, Buryat State University from Ulan-Ude, Russia
- China University of Petroleum, Beijing, China
- Ekonomski fakultet Univerziteta u Zenici, Bosna i Hercegovina
- Faculty of Business and Management, University of Ruse, Ruse, Bulgaria
- Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria
- Faculty of Economic Sciences and Law, University of Pitesti, Romania
- Faculty of Economy, University of Tirana, Albania
- Faculty of Engineering and Management, University „Eftimie Murgu“, Resita, Romania
- Faculty of International Resource Sciences, Akita University, Japan
- Faculty of Mechanical and Safety Engineering, University OBUDAI, Budapest, Hungary
- Faculty of Mechanics and Technology, Rzeszow University of Technology, Poland

- Металуршки факултет у Сиску, Свеучилишта у Загребу, Хрватска
- Faculty of Metallurgy, Technical University of Košice, Slovakia
- Faculty of Mines, University of Mining and Geology „St. Ivan Rilski“, Sofia, Bulgaria
- Faculty of natural and technical sciences, University „Goce Delčev“ of Štip, Macedonia
- Faculty of Science and Forestry of the University of Eastern Finland, Joensuu and Kuopio, Finland
- Faculty of Technological Engineering and Industrial Management, Transilvania University of Brasov, Romania
- Fakulta socialnych vied, Univerzita sv. Cyrila a Metoda v Trnave, Slovakia
- Institut za crnu metalurgiju a.d. – Nikšić, Crna Gora
- Institute of Geotechnics of Slovak Academy of Sciences, Slovakia
- Metalurško – tehnološki fakultet u Podgorici, Univerziteta Crne Gore, Crna Gora
- Metalurško – tehnološki fakultet Univerziteta u Zenici, Bosna i Hercegovina
- Mineral Deposit Research Unit at the University of British Columbia, Canada
- Physico-Technical Department, Buryat State University from Ulan-Ude, Russia
- Rudarski fakultet u Prijedoru, Univerziteta u Banja Luci, RS - Bosna i Hercegovina
- Rudarsko geološko-građevinski fakultet, Univerziteta u Tuzli, Bosna i Hercegovina
- Saobraćajni fakultet u Doboju, Univerziteta u Istočnom Sarajevu, RS – Bosna i Hercegovina
- Tehnološki fakultet u Banjoj Luci, Univerziteta u Banja Luci, RS - Bosna i Hercegovina
- Tehnološki fakultet u Zvorniku, Univerziteta u Istočnom Sarajevu, RS - Bosna i Hercegovina
- The Faculty of Electronics of National Technical University of Ukraine „Kiev Polytehnic Institute”, Ukraine
- The Federal State Budgetary Educational Institution of Higher Education „The Russian Presidential Academy of National Economy and Public Administration – RANEPA“, Russia
- University American College Skopje, Macedonia
- University of Chemical Technology and Metallurgy, Sofia, Bulgaria
- Univerzitet „Sv. Kiril i Metodij“, Tehnološko metalurški fakultet, Skopje, Makedonija
- West University of Timisoara, Faculty of economics and business administration, Romania

4. Potpisani sporazumi o bilateralnoj saradnji sa fakultetima i institucijama iz Srbije

- Fakultet tehničkih nauka u Kosovskoj Mitrovici, Univerziteta u Prištini
- Fakultet tehničkih nauka u Novom Sadu, Univerziteta u Novom Sadu
- Fakultet za hotelijerstvo i turizam u Vrnjačkoj banji, Univerziteta u Kragujevcu
- Institut za hemiju, tehnologiju i metalurgiju u Beogradu, Univerziteta u Beogradu
- Institut za nuklearne nauke „Vinča“, Univerziteta u Beogradu
- Institut za rudarstvo i metalurgiju u Boru
- Institut za tehnologiju nuklearnih i drugih mineralnih sirovina, Beograd
- Istraživačko-razvojni institut Lola, Beograd
- Mašinski fakultet u Nišu, Univerzitet u Nišu, Niš
- Rudarsko geološki fakultet u Beogradu, Univerziteta u Beogradu
- Tehnološki fakultet u Novom Sadu, Univerziteta u Novom Sadu
- Tehnološki fakultet u Leskovcu, Univerziteta u Nišu
- Tehnološko – metalurški fakultet u Beogradu, Univerziteta u Beogradu

5. 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 kolege 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 2018. godine su aktivna dva istraživačka projekta, koja su započela 2016. i još uvek traju u okviru ove mreže, na kojima je koordinator Tehnički fakultet u Boru:

- Corporate Social Responsibility (CSR). Detalji o ovom istraživačkom projektu su dostupni na: http://bussol4you.blogspot.com/2016/10/corporate-social-responsibility.html

- Failure and Recovery of Small and Medium Sized Enterprises (SMEs). Detalji o ovom istraživačkom projektu su dostupni na: http://bussol4you.blogspot.com/2016/10/failure-and-recovery-of-small-and.html

Takođe, aktivan je i jedan projekat, na kojem je koordinator Univerzitet Angel Kuntchev, Ruse, Bugarska:

- The intergenerational family businesses as a stress management instrument for entrepreneurs. Detalji o ovom istraživačkom projektu su dostupni na: http://intergen-theory.eu/index.html

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 od 2010. godine deo Nacionalne EURAXESS mreže (www.euraxess.rs) koja brine o mobilnosti istraživača i time se priključila evropskom istraživačkom prostoru.

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.

f. Mobilnost studenata u okviru programa "ERASMUS +" ključne akcije 1- mobilnost studenata, nastavnog i nenastavnog osoblja

Studenti osnovnih i master akademskih studija Odseka za menadžment Tehničkog fakulteta u Boru: Maja Stanujkić, Maja Veljković, Jelena Zdravković i Nikola Spasić, boravili su u okviru ostvarivanja dela studijskog programa (prolećni semestar 2017./2018. godine) na Keleti Faculty of Business and Management Óbuda University (Mađarska).

g.Aktivnosti i mobilnost u okviru medjunarodnog projekta JST SATREPS (Japan)

U okviru projekta JST SATREPS (Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development), koji Tehnički Fakultet Bor realizuje zajedno sa Institutom za Rudarstvo i Metalurgiju Bor i Faculty of International Resource Sciences, Akita Univerziteta iz Japana, realizovana je poseta nastavnika i studenata iz Japana Tehničkom fakultetu u Boru. Tokom druge polovine avgusta 2018. godine izvedena su zajednička terenska istraživanja u oblasti žaštite životne sredine, pri čemu su uglavnom tretirana zagađena područja Bora i Majdanpeka.

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

Kao i ranijih godina, tokom 2018. godine, Tehnički Fakultet u Boru je nastavio sa tradicionalnim aktivnostima u okviru promocije i popularizacije nauke.

- Prvi međunarodni festival nauke Timočki naučni tornado organizovan je 12. maja 2018. godine u Vidinu. Pored škola iz Vidina (Bugarska) i Kalafata (Rumunija) učestvovale su i obrazovne institucije iz Bora, Zaječara i Knjaževca. Organizatori manifestacije su: Društvo mladih istraživača Bor, Tehnički fakultet u Boru, Učesnici sa fakulteta bili su: Jovica Sokolović, i studenti Rudarskog odseka.
- Borska Noć istraživača – BONIS 2018 je održana u Boru, na gradskom šetalištu, 28. 09. 2018. godine. Organizatori manifestacije su: Društvo mladih istraživača Bor, Tehnički fakultet u Boru, U.G. „Vilaž" Bor i O.Š. „3. oktobar" Bor. Učesnici sa fakulteta bili su: Vesna Grekulović, Aleksandra Mitovski, Milan Gorgievski, Ljubiša Balanović, Kristina Božinović, Milica Bošković i studenti sa Odseka za metaluško i tehnološko inženjerstvo.

- Festival nauke TNT Bor 2018 održan je u prostorijama O.Š. „3. oktobar“ Bor, 03. 11. 2018. Organizatori festivala su: Društvo mladih istraživača Bor, Tehnički fakultet u Boru, U.G. „Vilaž“ Bor i O.Š. „3. oktobar“ Bor. Učesnici sa fakulteta bili su: Vesna Grekulović, Aleksandra Mitovski, Milan Gorgievski, Ljubiša Balanović, Kristina Božinović, Milica Bošković, Ivan Đorđević, Dragana Medić i studenti sa Odseka za metaluško i tehnološko inženjerstvo.
- Festival nauke TNT Negotin 2018 održan je u prostorijama O.Š. „Vuk Karadžić“ u Negotinu 22. 12. 2018. Organizatori festivala su: Društvo mladih istraživača Bor, Tehnički fakultet u Boru, U.G. „Vilaž“ Bor i O.Š. „3. oktobar“ Bor. Učesnici sa fakulteta bili su: Kristina Božinović, Anđelka Stojanović i studenti sa Odseka za metalurško inženjerstvo.

U okviru proslave Dana studenata Univerziteta u Beogradu (4. april 2018. godine) na Tehničkom fakultetu je održana manifestacija „Dan otvorenih vrata“, sa ciljem upoznavanja budućih brucoša sa mogućnostima studiranja na Tehničkom Fakultetu u Boru.

7. Učešće Tehničkog fakulteta u Boru na sajmovima

Tehnički Fakultet u Boru je u 2018. godini imao zapaženo učešće na četiri sajma, i to:

- Prvi Sajam obrazovanja Univerziteta u Beogradu, Beograd, 27.-28. januar 2018. god.
- 11. Sajam obrazovanja i stipendija “Moja karijera, moj izbor”, Niš, 17.-18. april 2018. god.
- 62. Međunarodni sajam tehnike i tehničkih dostignuća u Beogradu, 21.-25. maj 2018. god.
- 49. Sajam obrazovanja i nastavnih sredstava „Obrazovana Srbija, uspešna Srbija“, Beograd, 24.-28. oktobra 2018. godine

8. Studijski boravci ili posete univerzitetetima iz inostranstva

April 2018. god.

- Prof. dr Dragan Manasijević i doc. dr Ljubiša Balanović boravili su u Bosni i Hercegovini (učešće na internacionalnoj konferenciji)
- Prof. dr Ivan Mihajlović, prof. dr Isidora Milošević i doc. dr Danijela Voza boravili su u Mađarskoj (Erasmus+ projekat)
- Prof. dr Đorđe Nikolić i doc. dr Sanela Arsić boravili su u Rumuniji (dogovor u vezi potencijalnog IPA projekta)
- Doc. dr Aleksandra Fedajev boravila je u Rusiji (učešće na internacionalnoj konferenciji)

Maj 2018. god.

- Prof. dr Dragan Manasijević i doc. dr Ljubiša Balanović boravili su u Hrvatskoj (bilateralna saradnja sa Hrvatskom)
- Prof. dr Dejan Tanikić, doc. dr Ljubiša Balanović i grupa studenata sa Metalurškog odseka: Dalibor Jović, Milan Bejić, Nemanja Marić, Duško Rašković, Dejan Rašković, Marko-

Daniel Dujkić, Marko Banković i Stefan Nikorić boravili su u Poljskoj (obilazak Fakulteta za mehaniku i tehnologiju, Tehnološkog univerziteta Rzeszov u Stalowa Wola, obilazak industrijske zone grada i učešće na turniru u malom fudbalu)

- Prof. dr Jovica Sokolović boravio je u Bugarskoj (međunarodni TNT karavan)
- Doc. dr Milica Arsić boravila je u Slovačkoj (Erasmus+ projekat)

Jun 2018. god.

- Prof. dr Dragan Manasijević boravio je u Crnoj Gori (bilateralna saradnja sa Crnom Gorom)
- Prof. dr Ivana Đolović boravila je u Grčkoj (učešće na internacionalnoj konferenciji)

Jul 2017. god.

- Asistenti Jelena Ivaz i Ivica Nikolić boravili su u Poljskoj zbog pohađanja letnje škole u okviru CEEPUS projekta

Septembar 2018. god.

- Doc. dr Ljubiša Balanović, doc. dr Milan Gorgievski, doc. dr Aleksandra Mitovski, asistent Kristina Božinović i student Miljan Marković učestvovali su na stručnom seminaru u oblasti crne metalurgije u organizaciji Hebei Universtiy of Economics and Business (Shijiazhuang, Kina) pod nazivom: „Seminar on Equipment Maintenance and Practice of International Production Capacity Cooperation for Serbia 2018“. Seminar i obuka su realizovani u okviru projekta finanisiranog od strane Ministarstva trgovine Narodne Republike Kine, u periodu 06.-26. septembra 2018. godine
- Doc. dr Predrag Đorđević boravio je u Rusiji (učešće na internacionalnoj konferenciji)

Oktobar 2018. god.

- Prof. dr Dejan Tanikić boravio je u SAD (učešće na internacionalnoj konferenciji)
- Prof. dr Nenad Vušović boravio je u Nemačkoj (učešće na internacionalnoj konferenciji)
- Enisa Nikolić, predavač engleskog jezika, boravila je u Rumuniji (Erasmus+ projekat)
- Prof. dr Ivan Mihajlović, prof. dr Isidora Milošević i MSc Anđelka Stojanović boravili su u Češkoj republici (Višegrad projekat)
- Prof. dr Snežana Šerbula boravila je u Turskoj (učešće na internacionalnoj konferenciji)

Novembar 2018. god.

- Prof. dr Nada Štrbac i prof. dr Snežana Urošević boravile su u Bosni i Hercegovini (učešće na internacionalnoj konferenciji)
- Prof. dr Snežana Šerbula, prof. dr Đorđe Nikolić i doc. dr Sanela Arsić boravili su u Bosni i Hercegovini (suorganizacija EMFM 2018)
- Prof. dr Ivan Mihajlović boravio je u Mađarskoj (Višegrad projekat)

- Prof. dr Milan Trumić, prof. dr Grozdanka Bogdanović, doc. dr Maja Trumić i asistenti Vladimir Nikolić i Katarina Balanović boravili su u Mađarskoj (učešće na internacionalnoj konferenciji)

Decembar 2018. god.

- Prof. dr Radoje Pantović i prof. dr Snežana Šerbula boravili su Hrvatskoj (prisustvovanje svečanom obeležavanju dana Metalurškog fakulteta u Sisku, Univerziteta u Zagrebu)

- Doc. dr Aleksandra Mitovski boravila je u Bosni i Hercegovini (prisustvovanje 12. sednici ZTMF i dogovora u vezi organizacije „Tehnologijade“)

- Prof. dr Nada Štrbac i prof. dr Radoje Pantović boravili su u Bosni i Hercegovini (prisustvovanje svečanom obeležavanju dana Rudarsko-geološko-građevinskog fakulteta Univerziteta u Tuzli)

9. Studijski boravci ili posete sa drugih univerziteta iz inostranstva

Januar 2018. god.

- Mađarska delegacija (ERASMUS+ projekat). Velencei Jolan i Reicher Regina Zsuzanna sa Obuda Univerziteta u Mađarskoj posetili su fakultet i tom prilikom održali predavanja za doktorante sa Tehničkog fakulteta u Boru.

Maj 2018.

- Doc. dr Hesam Dehghani, sa Hamedan University of Technology iz Irana posetio je TF Bor i održao predavanje na Majskoj konferenciji o strategijskom menadžmentu 2018.

- Predstavnici firme HBIS GROUP Serbia Iron & Steel d.o.o. posetili su TF Bor, i održali predavanje studentima i nastavnom osoblju fakuteta.
- Predstavnici firme NODULAR d.o.o. prezentovali su svoju firmu na TF Bor.
- Prof. Daizo Ishiyama i prof. Atsushi Shibayama sa Akita Univerziteta u Japanu posetili su TF Bor i održali kurs studentima osnovnih i master studija.

Jun 2018.

- Prof. Gheorge Oancea sa Univerziteta u Brašovu, Rumunija boravio je u Boru i održao više predavanja u okviru ERASMUS+ projekta.

Avgust 2018.

- Japanska delegacija (SATREPS projekat)
    - 15. 08. 2018. godine predavanja organizovana za članove SATREPS projekta na TF Bor i poseta RTB-u Bor
    - 16. 08. 2018. godine sastanak sa timom SATREPS projekta, na čelu sa Prof. dr Daizo Ishiyama u Boru, predavanja na TF Bor
    - 28. 08. 2018. godine prezentacije studenata i članova SATREPS projekta u IRM u Boru

10. Prezentacije, predavanja i nagrade

- Delegacija Ministarstva prosvete, nauke i tehnološkog razvoja koju čine: državni sekretar Ana Milićević Langović, pomoćnik ministra Spomenka Simonić, šef kabineta Marko Popadić, PR ministarstva Daniela Marinković, na čelu sa ministrom Mladenom Šarčevićem, posetila je Tehnički fakultet u Boru dana 07. 02. 2018. godine. Tom prilikom su vođeni razgovori sa rukovodstvom i studentima fakulteta o budućim pravcima saradnje.
- 20. 02. 2018. godine, u organizaciji podružnice SHD u Boru organizovano je predavanje za članove podružnice, ali i za ostale zainteresovane studente na temu „Biosorpcija jona bakra iz vodenih rastvora korišćenjem stabljika kukuruza kao adsorbensa“. Predavač je bio doc. dr Milan Gorgievski sa Tehničkog fakulteta u Boru.
- Studenti četvrte godine sa Odseka za menadžment, ostvarili su zapažen rezultat na nacionalnom IPMA šampionatu, marta 2018. godine, u upravljanju projektima plasiravši se u šest najboljih timova u Srbiji.
- 26. 04. 2018. godine, u organizaciji podružnice SHD Bor i Odseka za metalurško inženjerstvo organizovana je naučno – stručna ekskurzija do površinskog kopa Majdanpek i arheološkog lokaliteta Rudna Glava.
- Četvoro studenata osnovnih studija Odseka za metalurško inženjerstvo: Gabrijela Trailović, Milovan Mladenović, Miloš Vuleta i Darko Šišmanović, obavilo je stručnu obuku u Kompaniji „HBIS Group Serbia“ u Smederevu na inicijativu predstavnika ove kompanije u periodu 25. 07. – 25. 09. 2018. godine.
- Na Tehničkom fakultetu u Boru, 4. aprila 2018. godine organizovan je Dan otvorenih vrata. Posetioci su imali priliku da se upoznaju sa mogućnostima Tehničkog fakulteta u Boru koji je tog dana za sve zainteresovane otvorio svoje učionice, amfiteatar, biblioteku, službe i laboratorije. U sklopu datih aktivnosti, otvorena je izložba „Milutin Milanković – život i delo“ sa pratećim sadržajima, a organizator izložbe je Udruženje Milutin Milanković Beograd.
- Dana 14. aprila 2018. godine na Tehničkom fakultetu u Boru boravili su učenici i profesori srednjih škola iz Negotina (Poljoprivredna škola sa domom učenika „Rajko Bosnić“ i Tehnička škola Negotin).
- Prva manifestacija „Humanitarno, sportsko i poetsko druženje prosvetnih radnika Bora“, u kome je kao jedan od organizatora bio i Tehnički fakultet u Boru, realizovana je 16. 06. 2018. godine. Osnovni cilj projekta, pod sloganom „Borska prosveta za radost dečijeg sveta“, uključivao je okupljanje borskih prosvetnih radnika, od predškolskog do visokoškolskog nivoa, koji svoje delatnosti obavljaju u okviru Ministarstva prosvete, nauke i tehnološkog razvoja, sa idejom da se prosvetni radnici putem manifestacija ovog tipa, kroz druženje i sportske aktivnosti, umreže i prošire mogućnosti šire saradnje.
- Jun Zhao, generalni direktor i Vladan Mihailović, generalni menadžer primarne proizvodnje kompanije HBIS GROUP Serbia Iron & Steel d.o.o. Beograd održali su predavanje na Tehničkom fakultetu u Boru 29. maja 2018. godine pod nazivom: „Current stage of iron and

steel production in HBIS Serbia and plans for further development“. Predavanju u svečanoj sali Tehničkog fakulteta u Boru, održanom u organizaciji Tehničkog fakulteta u Boru i Podružnice Srpskog hemijskog društva Bor, prisustvovao je veliki broj studenata i nastavnika.

- Ministar prosvete, nauke i tehnološkog razvoja Mladen Šarčević uručio je 19. juna 2018. godine, u Rektoratu Univerziteta u Beogradu, najbolje rangiranim studentima Ugovore o stipendiranju doktorskih studija i njihovo uključivanje u naučno-istraživačke projekte, a jedan od njih je i Goran Babić sa Tehničkog fakulteta u Boru, koji je stipendiju za doktorske studije dobio za oblast: Uredjenje, zaštita i korišćenje voda, zemljišta i vazduha.
- Dana 15. i 16. avgusta 2018. godine, Tehnički fakultet u Boru bio je domaćin gostima sa Akita univerziteta iz Japana. U okviru SATREPS projekta gosti iz Japana posećuju Tehnički fakultet u Boru već treću godinu zaredom. Profesori i studenti iz Japana imali su priliku da, u društvu svojih kolega sa Tehničkog fakulteta u Boru, obiđu laboratorije i opremu Tehničkog fakulteta. Nakon obilaska, predavači sa ove dve visokoškolske ustanove održali su niz predavanja svojim kolegama i studentima. U narednim danima studenti sa Akita univerziteta imaće intezivnu saradnju sa studentima Tehničkog fakulteta u Boru, u okviru terenskih istraživanja u Boru i okolini, kao i tokom analiza rezultata u Institutu za rudarstvo i metalurgiju u Boru.
- Dana 1. oktobra 2018. godine, na Tehničkom fakultetu u Boru, obeležen je početak nove školske godine tradicionalnom manifestacijom Open Day 2018. Svečanim činom, u prisustvu mnogobrojnih zvanica i ostalih gostiju, nastavnika, radnika i studenata fakulteta, promovisani su studenti koji su u prethodnoj školskoj godini stekli zvanja na osnovnim i master akademskim studijama.
- Dana 12. decembra 2018. godine, u zgradi Rektorata Univerziteta u Beogradu je realizovan program podrške maturantima „Pripremi se – upiši se“ sa događajem „Sati orijentacije“, a koji je namenjen učenicima četvrte godine iz domova učenika srednjih škola na teritoriji grada Beograda.
- Centar za razvoj karijere u saradnji sa Tehničkim fakultetom u Boru realizovao je tokom školske 2018./2019. godine onlajn kurs „Veštine upravljanja karijerom“. Kurs se uspešno realizuje od maja 2017. godine za studente Tehničkog fakulteta u Boru u okviru e-Learning sistema Univerziteta u Beogradu.