

Универзитет у Београду  
Технички факултет у Бору  
Број: VI/4-5-6  
Бор, 14. 02. 2020. године

На основу чл. 49. Статута Техничког факултета у Бору, Наставно научно веће Факултета, на седници одржаној 13. 02. 2020. године, донело је

## ОДЛУКУ

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2019. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2019. 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 2020. godine, sprovela je postupak vrednovanja rezultata naučno-istraživačkog rada i međunarodne saradnje nastavnika i saradnika, za prethodnu 2018. 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 2020. 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 2019. 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 2019. 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

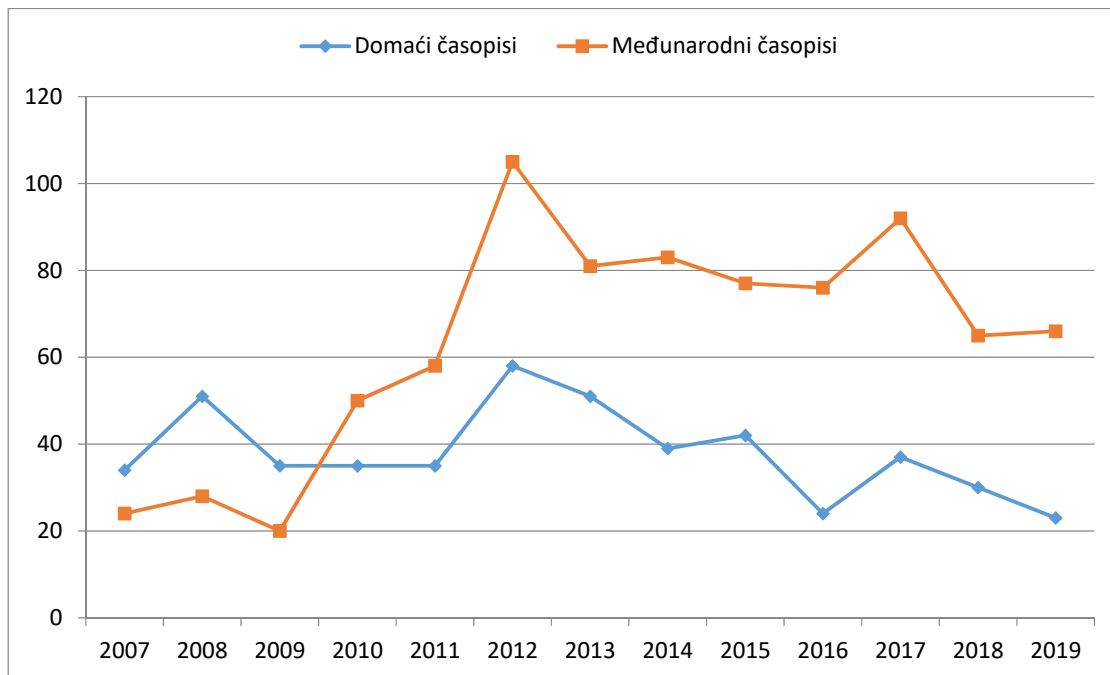
Nakon obrade podataka dobijenih u postupku vrednovanja zbirni prikaz rezultata naučnog rada dat je u **tabeli 1**.

Upoređivanje ostvarenih rezultata za 2019. godinu sa rezultatima iz prethodnih godina izvršeno je tabelarno i grafički, i to:

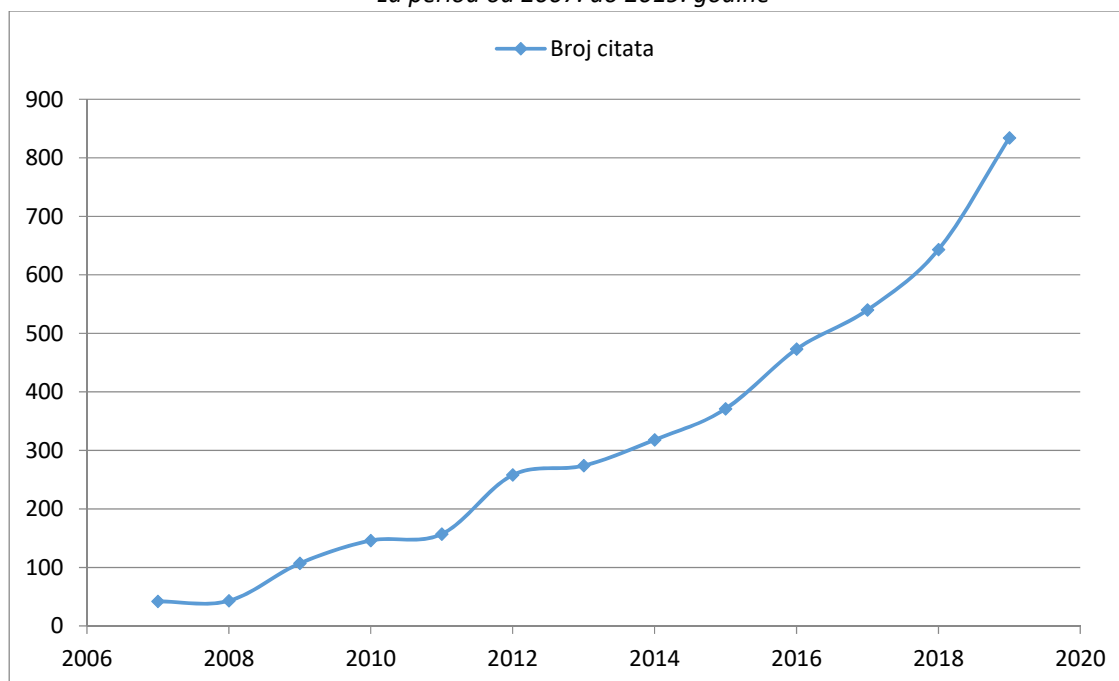
- **slika 1** – Pregled broja objavljenih radova grupe rezultata M20 i M50,
- **slika 2** – Pregled broja citata u časopisima sa IF (JCR lista),
- **tabela 2** – Prikaz broja rezultata grupa M30, M60, M70, M80 i M90 i
- **slika 3** – Pregled broja projekata na kojima su učestvovali nastavnici i saradnici.

**Tabela 1** – Zbirni prikaz rezultata NIR-a Tehničkog fakulteta u Boru za 2019. god.

| Tip rezultata - kategorija, prema MPNTR RS                | Broj ostvarenih rezultata                                             | UKUPNO    |
|-----------------------------------------------------------|-----------------------------------------------------------------------|-----------|
| M12                                                       | 1                                                                     | M10 – 13  |
| M13                                                       | 1                                                                     |           |
| M14                                                       | 11                                                                    |           |
| M21a + M21                                                | 3+8=11                                                                | M20 - 66  |
| M22                                                       | 16                                                                    |           |
| M23                                                       | 21                                                                    |           |
| M24                                                       | 11                                                                    |           |
| M28a                                                      | 1                                                                     |           |
| M28b                                                      | 1                                                                     |           |
| M29a                                                      | 3                                                                     |           |
| M29b                                                      | 1                                                                     |           |
| M29v                                                      | 1                                                                     |           |
| M31                                                       | 5                                                                     | M30 - 120 |
| M32                                                       | 1                                                                     |           |
| M33                                                       | 92                                                                    |           |
| M34                                                       | 19                                                                    |           |
| M36                                                       | 3                                                                     |           |
| M42                                                       | 1                                                                     | M40 – 2   |
| M44                                                       | 1                                                                     |           |
| M51                                                       | 7                                                                     | M50 – 23  |
| M52                                                       | 10                                                                    |           |
| M53                                                       | 4                                                                     |           |
| M55                                                       | 2                                                                     |           |
| M63                                                       | 3                                                                     | M60 – 16  |
| M64                                                       | 13                                                                    |           |
| M70                                                       | 2                                                                     | M70 - 2   |
| Udžbenici                                                 |                                                                       | 4         |
| Citiranost                                                | 281 rada citirana 834 puta                                            |           |
| Projekti finansirani od strane MPNTR RS                   | 26 + 2 = 28                                                           |           |
| Međunarodni projekti                                      | 15                                                                    |           |
| Projekti finansirani od strane privrede i ostali projekti | 2                                                                     |           |
| Učešće u organizaciji nučnih skupova                      | 5 međunarodna naučna skupa +<br>1 međunarodna studentska konferencija |           |
| Publikovani časopisi                                      | 4 naučna časopisa +<br>1 studentski časopis                           |           |



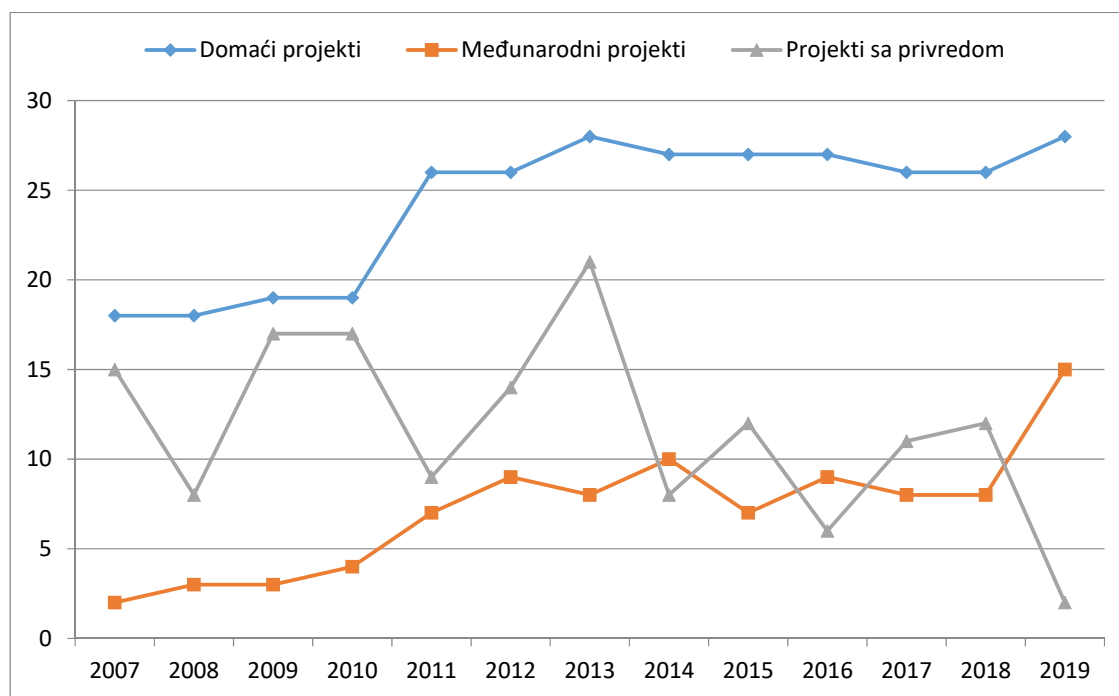
**Slika 1** – Grafički pregled broja objavljenih radova grupe rezultata M20 i M50 za period od 2007. do 2019. godine



**Slika 2** – Grafički pregled broja citata u časopisima sa IF (JCR lista) za period od 2007. do 2019. godine

**Tabela 2** – Pregled broja rezultata grupa M30, M60, M70 i M80 za period od 2010. do 2019. godine

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



**Slika 3** – Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici za period od 2007. do 2019. 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 2019. godini, zaključeno je sledeće:

1. U poređenju sa rezultatima postignutim u 2018. godini, rezultati postignuti u 2019. godini slabiji su u sledećim kategorijama:

|                      |                        |      |
|----------------------|------------------------|------|
| M 50                 | za 7 referenci ili za  | 23 % |
| M 60                 | za 4 reference ili za  | 20 % |
| Projekti za privredu | za 10 projekata ili za | 83 % |

2. U poređenju sa rezultatima postignutim u 2018. godini, rezultati postignuti u 2019. godini bolji su u sledećim kategorijama:

|                      |                                                     |                          |
|----------------------|-----------------------------------------------------|--------------------------|
| M 10                 | za 5 referenci ili za                               | 62 %                     |
| M 70                 | 2 odbranjene disertacije u odnosu na nijednu u 2018 |                          |
| Citiranost           | br. radova                                          | za 59 radova ili za 26 % |
|                      | br. citata                                          | za 191 citat ili za 30 % |
| Međunarodni projekti | za 7 projekata ili za                               | 87 %                     |
| Projekti MPNR RS     | za 2 projekta ili za                                | 7 %                      |

3. U poređenju sa rezultatima postignutim u 2018. godini, rezultati postignuti u 2019. godini ostali su na istom nivou u sledećim kategorijama:

M 20  
M 30  
M 40  
Udžbenici  
Organizovanje naučnih skupova  
Publikovanje časopisa

4. Ostvareni rezultati ukupno se ocenjuju kao bolji u odnosu na 2018. godinu posebno sa aspekta citiranosti radova što ukazuje na povećanje kvaliteta radova. Takođe, značajno poboljšanje vidljivo je i u kategoriji međunarodnih projekata.

Prilog: Godišnji izveštaj o rezultatima NIR-a za 2019. godinu

U Boru, februar 2020. godine

za Komisiju predsednik

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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 2019. godinu**

Универзитет у Београду,  
Технички факултет у Бору



**Годишњи извештај о резултатима  
оствареним у научно-истраживачком  
раду и међународној сарадњи за  
2019. годину**

Бор,  
фебруар 2020. године

## ОСНОВНИ ПОДАЦИ

Годишњи извештај о раду у области научно-истраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2019. 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, промотивне активности, учешће на сајмовима, научна и стручна предавања и друге активности), Прилог 6

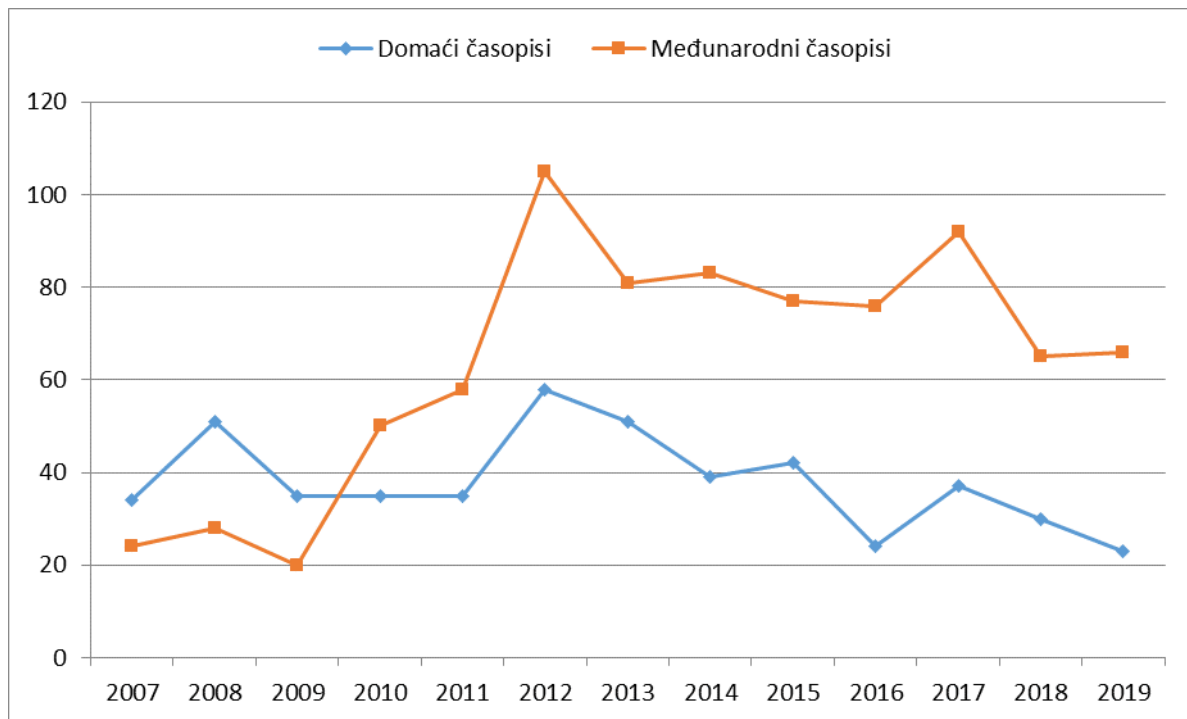
У складу са *Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача* извршена је класификација резултата научно-истраживачког рада које су остварили истраживачи запослени на Техничком факултету у Бору. Увидом у резултате НИР-а на ТФ Бор, оствареним током 2019. године, који су представљени у прилозима може се закључити следеће:

1. Публиковане монографске студије и радови у међународним часописима, категорије М10+М20: 13+66=79 рада
  2. Публиковани радови у националним часописима, категорије М50: 23 рада
  3. Публиковане монографије, уџбеници: 2 монографије категорије М40 и 4 уџбеника
  4. Саопштени радови на међународним (М30) и националним (М60) скуповима: 120+16=136 радова
  5. Ангажовање на пројектима:
    - а. 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) и 2 пројекта у оквиру позива Развој високог образовања.
    - б. Међународни пројекти: 15
    - с. Пројекти финансирани од стране привреде и остали пројекти: 2
  6. Цитираност у 2019. години (SCOPUS резултати): 281 рада цитирана 834 пута
- Збирни приказ резултата НИР-а за 2019. годину дат је у Табели 1.

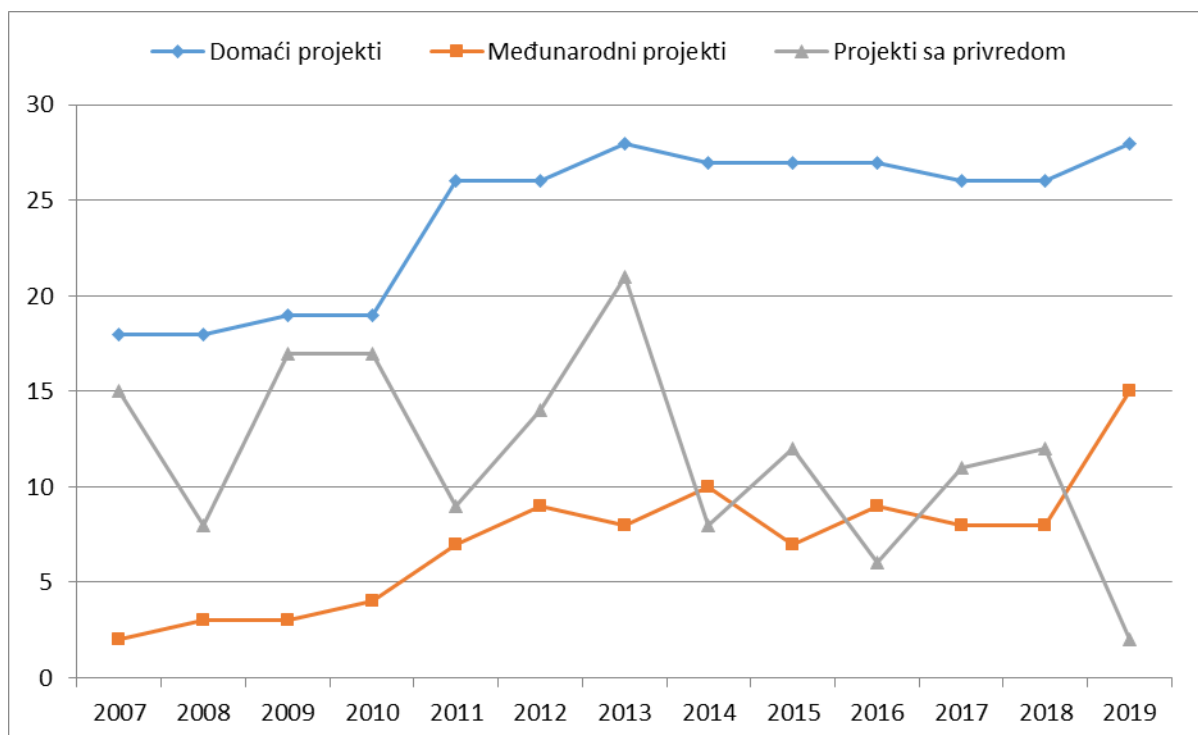
Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2019. год.

| Тип резултата - категорија, према МПНТР РС                | Број остварених резултата                                             | УКУПНО    |
|-----------------------------------------------------------|-----------------------------------------------------------------------|-----------|
| M12                                                       | 1                                                                     | M10 - 13  |
| M13                                                       | 1                                                                     |           |
| M14                                                       | 11                                                                    |           |
| M21a + M21                                                | 3+8=11                                                                | M20 - 66  |
| M22                                                       | 16                                                                    |           |
| M23                                                       | 21                                                                    |           |
| M24                                                       | 11                                                                    |           |
| M28a                                                      | 1                                                                     |           |
| M28b                                                      | 1                                                                     |           |
| M29a                                                      | 3                                                                     |           |
| M29b                                                      | 1                                                                     |           |
| M29v                                                      | 1                                                                     |           |
| M31                                                       | 5                                                                     | M30 - 120 |
| M32                                                       | 1                                                                     |           |
| M33                                                       | 92                                                                    |           |
| M34                                                       | 19                                                                    |           |
| M36                                                       | 3                                                                     |           |
| M42                                                       | 1                                                                     | M40 - 2   |
| M44                                                       | 1                                                                     |           |
| M51                                                       | 7                                                                     | M50 - 23  |
| M52                                                       | 10                                                                    |           |
| M53                                                       | 4                                                                     |           |
| M55                                                       | 2                                                                     |           |
| M63                                                       | 3                                                                     | M60 - 16  |
| M64                                                       | 13                                                                    |           |
| M70                                                       | 2                                                                     | M70 - 2   |
| Уџбеници                                                  |                                                                       | 4         |
| Цитираност                                                | 281 рада цитирана 834 пута                                            |           |
| Пројекти финансирани од стране МПНТР РС                   | 26 + 2 = 28                                                           |           |
| Међународни пројекти                                      | 15                                                                    |           |
| Пројекти финансирани од стране привреде и остали пројекти | 2                                                                     |           |
| Учешће у организацији научних скупова                     | 5 међународна научна скупа +<br>1 међународна студентска конференција |           |
| Публиковани часописи                                      | 4 научна часописа +<br>1 студентски часопис                           |           |

У наставку је, на Сликама 1.-3. и у Табели 2., дат упоредни приказ резултата остварених на ТФ Бор за претходни период (од 2007. године до краја 2019. године).



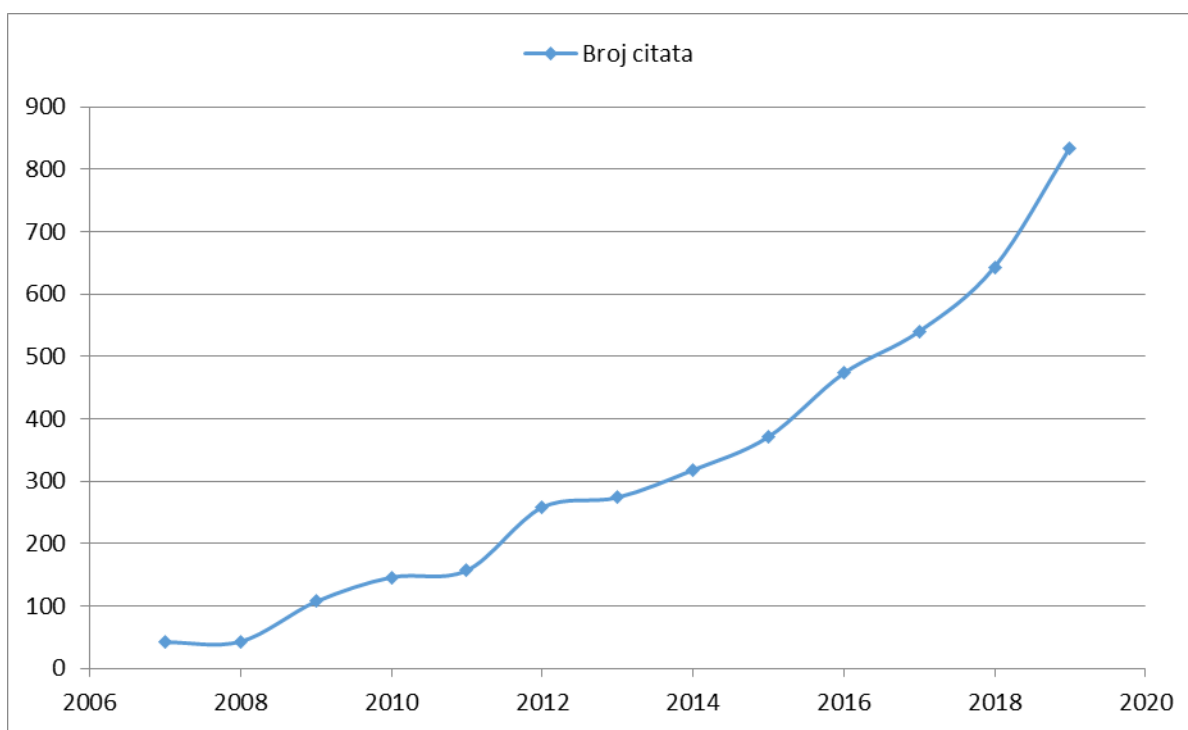
Слика 1. Упоредни приказ броја радова објављених у међународним и домаћим часописима (М20 и М50) на ТФ Бор у периоду 2007. – 2019. год.



Слика 2. Упоредни приказ броја домаћих, међународних и пројеката са привредом реализованих на ТФ Бор у периоду 2007. – 2019. год.

Табела 2. Упоредни приказ броја резултата категорија М30, М60, М70 и М80 у периоду 2010. – 2019. год.

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



Слика 3. Упоредни приказ броја цитата на ЈСР листи за ТФ Бор у периоду 2007. – 2019. год.

Имајући у виду резултате, остварене у оквиру научно-истраживачких активности, истраживача са Техничког факултета у Бору у 2019. години, они се могу сматрати задовољавајућим и адекватним актуелном стању у области просвете и науке у нашој земљи. Поређење са претходним периодом указује на одређени пад укупног броја објављених радова у међународним часописима, у односу на период

2012-2017. и стагнацију у односу на 2018. годину – М20: 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. Међутим, чињеница која охрабрује је да је удео М21 радова, у оквиру категорије М20 радова, у порасту. Наиме, у 2018 је публиковано 6 радова категорије М21 и 1 М21а, док је у 2019. публиковано 8 радова М21 категорије, као и 3 рада категорије М21а. У 2019. години је забележен 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, 2019.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 2019. године настављено је финасирање још увек актуелних пројекта од стране Министарства просвете, науке и технолошког развоја Републике Србије, при чему је број пројекта на којима су учествовали истраживачи са ТФ Бор на истом нивоу као и претходних година. За разлику од претходних година, где су руководиоци пројекта требали да доставе Министарству планове истраживања за наредну годину, 2019. године је тражено да се на нивоу Факултета формира план истраживања за све пројекте Министарства, на нивоу институције. То је учињено и сва неопходна документација је достављена Министарству децембра 2019. године. Такође, током 2019. године, истраживачи са Факултета су аплицирали и на позив Министарства у оквиру позива „Развој високог образовања“. Два пројекта ове врсте су прихваћена за финансирање од стране Министарства просвете, науке и технолошког развоја Републике Србије, што је утицало на пораст укупног броја домаћих пројекта.

Истраживачи са ТФ Бор учествовали су током 2019. године на 15 међународних истраживачких пројекта и пројекта међународне мобилности наставника, студената и ненаставног особља. Ово је већи број пројекта у односу на 2018. годину када је на Факултету реализовано 8 међународних пројекта. У области сарадње са привредом, у 2019. години урађена су само 2 пројекта, што представља значајни пад у односу на претходни период (Слика 2).

Број саопштења на међународним скуповима је на нивоу 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, док је благи пад уочен 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. (Табела 2).

Ипак, посебно је значајна чињеница да се наставља тренд континуалног повећање броја цитираних радова, као и укупног броја цитата на ЈСР 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

(Слика 3). Та чињеница говори у прилог томе да, иако је укупни број публикованих радова мањи него у претходном периоду, очигледно је да расте њихова видљивост и прихватање у научној заједници, који доводе до повећања броја цитата.

Радови категорије M21-M23, које су током 2019. године публиковали запослени на Техничком Факултету у Бору, припадају следећим научним областима:

*Metallurgy & Metallurgical Engineering (12 пада); Operations Research, Production optimization, Safety Science, Management Science (11 пада); Mining and Mining Science (5 пада); Chemistry and Chemical Engineering (5 пада); Environmental Studies, Environmental Sciences, Ecology (3 пада); Energy and Energy Optimisation (3 пада); Information Technology, Computer Science, Information Systems (3 пада); Economics (2 пада); Engineering Civil (1 пада); Mathematics, Mathematics Applied (1 пада); Physics (1 пада); Physical Chemistry (1 пада).*

Током 2019. 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 традиционално наставио да издаје своја четири 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 2019. године, и овај часопис је редовно публикован, према планираној динамици.

Током 2019. године Технички факултет у Бору је учествовао у организацији пет научних скупова, што је такође традиционални ангажман Факултета на овом пољу:

- 27<sup>th</sup> International Conference Ecological Truth and Environmental Research (EcoTER 2019), Борско језеро, Србија, 18.-21. јун 2019. године
- 15<sup>th</sup> International May Conference on Strategic Management (IMCSM 2019), Бор, 24.-26. мај 2019. године
- 51<sup>th</sup> International October Conference on Mining and Metallurgy (IOC 2019), Борско језеро, 16. - 19. октобар 2019. године
- 13<sup>th</sup> International Mineral Processing and Recycling Conference (IMPRC 2019), Београд, 8-10. мај 2019. године
- XII Savjetovanje hemičara, tehnologa i ekologa RS, Бања Врућица, Теслић, Босна и Херцеговина, 02.-03. новембар 2019. године

У оквиру скупа МКСМ 2019 и ове године је организован студентски симпозијум: 15. Студентски симпозијум о стратегијском менаџменту. Такође, на Техничком факултету у Бору организован је интернационални скуп студената



техничких наука под називом „6<sup>th</sup> International Student Conference on Technical Sciences – ISC2019”.

Током 2019. године 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.

Настављене су активности у оквиру академских мрежа у којима је ТФ Бор активан партнер: Resita Network, MET-NET мрежа, EURAXESS mreža, Српска национална мрежа технолошких брокера. 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 даљих активности у смислу будућих пројектних апликација и међународне размене студената и наставног особља.

Значајно је истаћи и да је у току 2019. године Србија постала програмска земља у оквиру ЕРАСМУС + програма. Самим тиме, ово је била прелазна година из статуса партнерске земље, који је Србија имала од 2014. године, у статус програмске земље. Према томе, током 2019. године паралелно су се реализовале мобилности у оквиру још увек активнох пројеката мобилности, потписаних у статусу партнерске земље али и пријава нових пројеката мобилности у којима се Србија јавља у статусу програмске земље. Тако да су, у оквиру програма Европске уније ERASMUS+KA1, током 2019. године, реализоване бројне активности мобилности наставника и студената Техничког факултета у Бору, као и мобилност страних предавача на нашем Факултету.

Након што је Србија у 2019. години постала програмска земља у ЕРАСМУС + програму, на отворени позив у 2019. години су пријављени нови пројекти мобилности са следећим институцијама: Obuda University, Budapest, Hungary; University of Zagreb, Zagreb, Croatia; University of Eastern Finland, Joensuu, Kuopio, Savonlinna, Finland; University of Ljubljana, Ljubljana, Slovenia. За наведене институције су прихваћени пројекти за мобилност студената које ће се реализовати током 2020. године, према уговорима који се припремају на нивоу Универзитета.

Акције везане за промоцију и популаризацију науке код младих настављене су и током 2019. године. У оквиру тога, Технички факултет у Бору је организовао манифестацију „Скок преко коже“ и узео учешћа у манифестацији „Тимочки научни торнадо“ у Зајечару, као и у манифестацији „Борска Ноћ истраживача – БОНИС 2019“, која је одржана у Бору, као и у великом броју додатних активности.

У оквиру прославе Дана студената Универзитета у Београду (4. април 2019. године) одржана је манифестација „Дан отворених врата“ са циљем упознавања будућих бруцоша са могућностима студирања на Техничком Факултету у Бору. На овој манифестацији, поред представљања самог Факултета и свих студијских

програма, заинтересованим ученицима и наставницима средњих школа, организована је и радионица из области Програмирања и програмских језика, у координацији са Машинско – електротехничком школом у Бору.

Дана 1. октобра 2019. године, на Техничком факултету у Бору, обележен је почетак нове школске године традиционалном манифестацијом „Open Day 2019“.

Поред тога, и током 2019. године, организоване су посете тима за промоцију Факултета свим средњим школама у Бору, као и у бројним средњим школама у ширем региону.

У циљу додатне промоције нашег Факултета, у Техничкој и Економско трговинској школи у Бору, организоване су и радионице на тему „Каријерно вођење и саветовање“, намењене ученицима четвртих разреда ових школа. У реализацији ових радионица, поред наставника Техничког факултета у Бору, били су укључени и студенти волонтери нашег Факултета.

Технички Факултет у Бору је у 2019. години имао и запажено учешће на следећим сајмовима: Регионални Сајам образовања у Ћуприји; Сајам образовања и стипендија “Моја каријера, мој избор” у Нишу, као и на многим другим манифестацијама локалног, регионалног и националног карактера, на којима је вршена промоција Факултета.

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 2019. године били задовољавајући, али да свакако треба радити на томе да они у предстојећем периоду буду још бољи.

у Бору, 31. 01. 2020. године

Подносилац извештаја

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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 2019. GODINI**

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| Tip rezultata/kategorija prema MPNTR<br>RS | Broj ostvarenih rezultata |
|--------------------------------------------|---------------------------|
| M12                                        | 1                         |
| M13                                        | 1                         |
| M14                                        | 11                        |
| M21a                                       | 3                         |
| M21                                        | 8                         |
| M22                                        | 16                        |
| M23                                        | 21                        |
| M24                                        | 11                        |
| M28a                                       | 1                         |
| M28b                                       | 1                         |
| M29a                                       | 3                         |
| M29b                                       | 1                         |
| M29v                                       | 1                         |
| M31                                        | 5                         |
| M32                                        | 1                         |
| M33                                        | 92                        |
| M34                                        | 19                        |
| M36                                        | 3                         |
| M42                                        | 1                         |
| M44                                        | 1                         |
| M51                                        | 7                         |
| M52                                        | 10                        |
| M53                                        | 4                         |
| M55                                        | 2                         |

|           |    |
|-----------|----|
| M63       | 3  |
| M64       | 13 |
| M70       | 2  |
| Udžbenici | 4  |

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1. S. Cipriana, **D. Stanujkić**: Baile felix: A top Pomanian spa destination, Publisher: MEF - Fakultet za primenjeni menadžment, ekonomiju i finansije, ISBN 978-86-84531-41-6, pp. 309 - 327, 2019

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1. **S. Alagić, M. Nujkić, S. Tošić, S. Milić, M. Dimitrijević**: "Heavy Metal Pollution in the Region of Bor (Serbia) Resulting from the Long-Term Copper Mining and Metallurgical Activities: The Evidence Recorded in Plant Organs and Implications for Biomonitoring and Phytoremediation as Two Prospective Environmentally-Friendly Methods of Pollution Control" in Serbia: Current Issues and Challenges in the Areas of Natural Resources, Agriculture and Environment, Editors: Dr Igor Janev, Publisher: Nova Science Publishers, Inc., New York, US, ISBN 978-1-53614-897-8, pp. 301 - 356, 2019

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1. **I. Mihajlović, A. Stojanović**: How to address and understand the failure of smes: framework and factors, Editors: Prof. dr Ivan Mihajlović, Publisher: University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD), Printed by Happy, Zajecar, ISBN 978-86-6305-095-2, pp. 663 - 694, 2019
2. **M. Veličković**: The analysis of start-up motives and barriers for entrepreneurship in Eastern Serbia, Editors: Prof. dr Ivan Mihajlović, Prof. Isidora Milošević, MSc Anđelka Stojanović, Publisher: University of Belgrade, Technical faculty in Bor, Printed by Happy, Zajecar, ISBN 978-86-6305-095-2, pp. 171 - 191, 2019
3. **N. Milijić**: Occupational safety factors evaluation in manufacturing MSMEs: The case of Serbia, Editors: Ivan Mihajlović, Milan Trumić, Publisher: Technical Faculty in Bor, Printed by Happy, Zajecar, ISBN 978-86-6305-095-2, pp. 514 - 547, 2019
4. **I. Jovanović**: The influence of entrepreneurial factors on MSME's innovativeness and profitability in transitional economy, Editors: Prof. dr Ivan Mihajlović, Publisher: University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD), Printed by Happy, Zajecar, Serbia, ISBN 978-86-6305-095-2, pp. 392 - 422, 2019
5. **A. Fedajev**: The differences in bureaucratic constrains for SMEs development in Visegrad countries and Serbia, Editors: Milan Trumić, Publisher: University of Belgrade, Technical faculty in Bor, Printed by Zajecar: Happy, ISBN 978-86-6305-095-2, pp. 695 - 721, 2019
6. **I. Nikolić, N. Nikolić**: An Integrated Method of Rough AHP, PROMETHEE and ABC for Raking SMEs Failure Factors in Function of Prevention SMEs Failure, Editors: Prof. dr Ivan

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7. **A. Fedajev, M. Panić:** Does high innovation input always lead to high innovation output?, Editors: Darjan Karabašević, Svetlana Vukotić, Publisher: Faculty of Applied Management, Economics and Finance, Printed by Tercija DOO, Bor, ISBN 978-86-84531-41-6, pp. 155 - 172, 2019
8. **I. Milošević:** The contribution of new technology and innovativeness of Small and Medium Enterprises to business success, Monograph: How to prevent SMEs from failure (Actions based on comparative analysis in Visegrad countries and Serbia), ISSN 978-86-6305-095-2, pp. 423 - 448, 2019
9. **S. Urošević, A. Dobrosavljević:** Conditions of development of small and medium enterprises in clothing industry/Monography: How to prevent SMEs failure (Actions based on comparative analysis in Višegrad countries and Serbia), Editors: Ivan Mihajlović, Publisher: Tehnički fakultet u Boru, ISBN 978-86-6305-095-2, pp. 583 - 627, 2019
10. **M. Panić, D. Voza:** Examining the satisfaction of entrepreneurs with the achieved results in the Zaječar municipality, In: How to prevent SMEs failure (Actions based on comparative analysis in Visegrad countries and Serbia), pp. 277 - 318, 2019
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1. I. Savić Gajić, I. Savić, I. Boškov, S. Žerajić, **I. Marković**, D. Gajić: Optimization of ultrasound-assisted extraction of phenolic compounds from black locust (*Robinia pseudoacacia*) flowers and comparison with conventional methods, *Antioxidants* (Basel), ISSN 2076-3921, Vol. 8, No. 8, pp. 248, 2019, [Impact factor (IF) 4.520/2018]
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3. **A. Fedajev, Đ. Nikolić**, M. Radulescu, C. Sinisi: Patterns of structural changes in CEE economies in new millennium, *Technological and Economic Development of Economy*, ISSN 2029-4913, Vol. 25, No. 6, pp. 1336 - 1362, 2019, [Impact factor (IF) 4.344/2018]

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### Prilog 3.

## SPISAK DOMAĆIH PROJEKATA NA KOJIMA SU 2019. 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

Razvoj visokog obrazovanja – 2 projekta (rukovodioci oba projekta su istraživači sa TF Bor)

| Red. br. | Naziv projekta                                                                                                                                                                                                                                    | Istraživači<br>(broj istraživač meseci)         | Broj projekta | Nosilac<br>(koordinator)                                          | Rukovodilac            |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------|-------------------------------------------------------------------|------------------------|
| 1.       | Razvoj tehnologija flotacijske prerade ruda bakra i plemenitih metala radi postizanja boljih tehnoloških rezultata                                                                                                                                | Zoran Štirbanović (4),<br>Dragiša Stanujkić (8) | TR 33023      | Institut za rudarstvo<br>i metalurgiju Bor                        | Dragan<br>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<br>Nišu                                     | Dušan<br>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<br>Nišu                                    | Goran Ristić           |
| 4.       | Magmatizam i geodinamika Balkanskog poluostrva od mezozoika do danas: značaj za obrazovanje metaličnih i nemetalčnih rudnih ležišta                                                                                                               | Miodrag Banješević (6)                          | OI 176016     | Rudarsko-geološki<br>fakultet u Beogradu                          | Vladica<br>Cvetković   |
| 5.       | Virtuelni koštano zglobni sistem čoveka i njegova primena u predkliničkoj i kliničkoj praksi                                                                                                                                                      | Dejan Tanikić (6)                               | III 41017     | Mašinski fakultet u<br>Nišu                                       | Miroslav<br>Trajanović |
| 6.       | Minerali Srbije: sastav, struktura, geneza, primena i doprinos održanju životne sredine                                                                                                                                                           | Mira Cocić (8)                                  | OI 176010     | Rudarsko-geološki<br>fakultet u Beogradu                          | Mihovil Logar          |
| 7.       | Nov pristup dizajniranju materijala za konverziju i skladištenje energije                                                                                                                                                                         | Zoran Stević (8),<br>Vesna Grekulović (2)       | OI 172060     | Institut za hemiju,<br>tehnologiju i<br>metalurgiju u<br>Beogradu | Vladimir Panić         |

|     |                                                                                                                                                                                         |                                                                                                                                                                                                                                               |           |                                                                         |                          |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------|--------------------------|
| 8.  | Razvoj i primena distribuiranog sistema nadzora i upravljanja potrošnjom električne energije kod velikih potrošača                                                                      | Srba Mladenović (8)                                                                                                                                                                                                                           | TR 33037  | Institut za rudarstvo i metalurgiju Bor                                 | Viša Tasić               |
| 9.  | Funkcionalna analiza, stohastička analiza i primene                                                                                                                                     | Ivana Đolović (8),<br>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                                                                                   | 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),<br>Ivan Mihajlović (8),<br>Milovan Vuković (4),<br>Dejan Bogdanović (8),<br>Aleksandra Mitovski (8),<br>Milica Arsić (8),<br>Đorđe Nikolić (8),<br>Ivan Jovanović (8),<br>Isidora Milošević (8),<br>Predrag Đorđević (8)     | TR 34023  | <b>Tehnički fakultet u Boru</b>                                         | <b>Nada Štrbac</b>       |
| 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),<br>Snežana Milić (8),<br>Grozanka Bogdanović (8),<br>Marija Petrović Mihajlović (8),<br>Milan Radovanović (8),<br>Ana Simonović (8),<br>Maja Trumić (8),<br>Žaklina Tasić (8),<br>Maja Nujkić (8)<br>Dragana Medić (8) | OI 172031 | <b>Tehnički fakultet u Boru</b>                                         | <b>Milan Antonijević</b> |
| 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),<br>Nenad Vušović (2),<br>Slađana Alagić (8),<br>Snežana Urošević (4),<br>Ana Radojević (6),<br>Tanja Kalinović (6),<br>Milan Gorgievski (4),<br>Jelena Milosavljević (8),<br>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),<br>Jovica Sokolović (4),<br>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),<br>Ljubiša Balanović (8),<br>Uroš Stamenković (8)                                                                                                                                                                                                                                         | OI 172037 | <b>Tehnički fakultet u Boru</b>             | <b>Dragan Manasijević</b> |
| 17. | Dinamika hibridnih sistema                                                                                                                                                                      | Jelena Đoković (8),<br>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                                                                 | Dragoslav Gusković (8),<br>Svetlana Ivanov (6),<br>Ivana Marković (8),<br>Saša Marjanović (4),<br>Vesna Grekulović (6),<br>Jasmina Petrović (8)                                                                                                                                                                   | TR 34003  | <b>Tehnički fakultet u Boru</b>             | <b>Ivana Marković</b>     |
| 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 situ“ oko podzemnih prostorija sa izradom modela sa posebnim osvrtnom 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 Koccev (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),<br>Nenad Vušović (6),<br>Vitomir Milić (6),<br>Miodrag Žikić (8),<br>Snežana Šerbula (2),<br>Miodrag Banješević (2),<br>Saša Stojadinović (8),<br>Jovica Sokolović (4),<br>Dejan Petrović (8),<br>Ana Radojević (2),<br>Tanja Kalinović (2),<br>Jelena Kalinović (2),<br>Pavle Stojković (8) | TR 33038  | <b>Tehnički fakultet u Boru</b>             | <b>Nenad Vušović</b>      |
| 24. | Održivost identiteta Srba i nacionalnih manjina u pograničnim opštinama istočne i jugoistočne Srbije                                                                                            | Milovan Vuković (4),<br>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           |

Pored navedenih projekata, od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u okviru poziva Razvoj visokog obrazovanja, finansirani su i projekti:

| <b>Red. br.</b> | <b>Naziv projekta</b>                                                         | <b>Istraživači</b>                                                                                                                                             | <b>Nosilac (koordinator)</b> | <b>Rukovodilac</b>               |
|-----------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|
| 1.              | Inoviranje postojećeg studijskog programa iz oblasti metalurškog inženjerstva | Prof. dr. Vesna Grekulović, Prof. dr Nada Štrbac, Prof. dr Milan Gorgievski, Prof. dr Ljubiša Balanović, Doc. dr Aleksandra Mitovski, Asistent Milica Bošković | Tehnički fakultet u Boru     | Prof. dr <b>Vesna Grekulović</b> |
| 2.              | SET – SAP „Students’ Entrepreneurship Training through SAP“                   | Prof. dr Đorđe Nikolić<br>Prof. dr Ivan Mihajlović<br>Doc. dr Nenad Milijić<br>Doc. dr Aleksandra Fedajev<br>Doc. dr Sanela Arsić                              | Tehnički fakultet u Boru     | Prof. dr <b>Đorđe Nikolić</b>    |



#### Prilog 4.

### SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2019. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

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#### 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, ass. Pavle Stojković 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 (Institut za tehnologiju 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. 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 raising workshops**

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

*Rukovodioc projekta sa Tehničkog fakulteta u Boru:* prof. dr Nada Štrbac.

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

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

**4. 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, doc. dr Aleksandra Fedajev.

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

**5. 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 of 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) .

**6. Program bilateralne saradnje Srbije i Slovačke: Mašinsko učenje primenom modela frakcionog reda, 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

**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", 2017.-2019 (Obuda University, Budimpešta, Mađarska).**

*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:* dr Sanela Arsić i Sandra Vasković

*Vrsta projekta:* Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja

**8. 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 (Transylvania University, Brašov, Rumunija).**

*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

**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", 2016.-2020 (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)

*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

**10. International VISEGRAD project: 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 finansiran od strane Internacionalnog Višegrad Fonda

**11. PMI IMPACT projekat: Interdependence Between Illegal Trade in Tabaco and Corruption Money Laundering and Organized Crime**

*Institucije učesnice na projektu:* Tehnički fakultet u Boru Univerziteta u Beogradu (Srbija), Mykolas Romaris University iz Litvanije

*Rukovodilac projekta:* Ligita Gaspareniene sa Mykolas Romaris University iz Litvanije

*Saradnici sa Tehničkog Fakulteta u Boru:* doc. dr Aleksanda Fedajev; doc. dr Marija Panić

*Vrsta projekta:* Internacionalni istraživački projekat finansiran od strane PMI IMPACT globalne inicijative za grantove od kompanije Philip Morris International.

**12. COST program – projekat: Rural NEET Youth Network: Modeling the risks underlying rural NEETs social exclusion**

*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.

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

*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:* Doc. dr Aleksandra Fedajev, doc. dr Sanela Arsić; doc. dr Marija Panić

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

**14. COST program – projekat: Indoor Air Pollution Network**

*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:* Doc. dr Milica Veličković

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

**15. ERASMUS + program, Startegic partnership, Key Action2: "VIVET" (Virtuelne prakse u srednjem stručnom obrazovanju.)**

*Institucije učesnice na projektu:* Univerzitet u Padovi (Italija); Intreprojekt (Bugarska); Tehnička škola Užice; Beogradska otvorena škola i Tehnički fakultet u Boru.

*Koordinator projekta iz Srbije:* Jelena Manić Radoičić

*Istraživači na projektu sa Tehničkog Fakulteta u Boru:* Doc. dr Aleksandra Mitovski

*Vrsta projekta:* Internacionalni projekat u okviru ERASMUS + program, strateško partnerstvo, KA2.

## **Prilog 5.**

### **SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2019. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU**

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#### **Projekti, studije, elaborati**

1. S. Mladenović, J. Petrović, I. Marković, Projektovanje postrojenja za centrifugalno livenje, Privredno društvo za preradu i promet Metalurg DOO Prokuplje
2. V. Milić, J. Sokolović, R. Pantović, Studija izvodljivosti eksploatacije ntracita i proizvodnje filter antracita u RA Vrška Čuka Avramica

## Prilog 6.

### OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2019. GODINI

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#### 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](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 2019. godinu).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, svrstan je u kategoriju **M23**, sa IF(2019)=0,859 (prema kategorizaciji naučnih časopisa u oblasti Metallurgy & Metallurgical Engineering, za 2019. godinu). Kao i sa petogodišnjim IF=1,018 i mestom 45/76 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 2019. godinu). Kao i sa IF = 0.24 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 2019. godinu).

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

## **2. Organizacija i suorganizacija naučnih skupova**

Tokom 2019. godine, Fakultet je organizovao, ili učestvovao u organizaciji, sledećih naučnih skupova:

- **XXVII International Conference Ecological Truth and Environmental Research (EcoTER 2019)**, Borsko jezero, Srbija, 18.-21. jun 2019. godine. Organizator je bio 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).
- **15<sup>th</sup> International May Conference on Strategic Management (MKSM 2019)**, Bor, 24.-26. maj 2019. godine. Organizator je Univerzitet u Beogradu, Tehnički Fakultet u Boru. (predsednik organizacionog odbora je doc. dr P. Djordjević).
- **51<sup>th</sup> International October Conference on Mining and Metallurgy (IOC 2019)**, Borsko jezero, 16. - 19. oktobar 2019. godine. Organizator skupa bio je Tehnički fakultet u Boru (predsednik organizacionog odbora je bio prof. dr Srba Mladenović), dok je Institut za rudarstvo i metalurgiju u Boru bio suorganizator.
- **13th International Mineral Processing and Recycling Conference (IMPRC 2019)**, Privredna komora Srbije, Beograd, 8-10. maj 2019. godine (predsednik organizacionog odbora je bila prof. dr Grozdannka Bogdanović).
- **XII Savjetovanje hemičara, tehnologa i ekologa RS**, Banja Vrućica, Teslić, Bosna i Hercegovina, 02.-03. novembar 2019. 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 2019** 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 i studentska sekcija. Takođe, organizovana je i Šesta međunarodna studentska konferencija o tehničkim naukama – ISC2019 (predsednik organizacionog odbora bio je dr Saša Stojadinović, vanredni profesor).



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

- 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)
- Металуршки факултет у Сиску, Свеучилишта у Загребу, Хрватска (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)
- University of Chemical Technology and Metallurgy, Sofia, Bulgaria (2014-2019)
- Fakulta socialnych vied, Univerzita sv. Cyrila a Metoda v Trnave, Slovakia (2014-2019)

#### **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 (2019-2020)
- 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 (2019 – 2020)
- 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 2019. godine su još uvek 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, u okviru ove mreže, 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. 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](http://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.

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

U okviru programa Evropske unije ERASMUS+KA1 studenti osnovnih i master studija odseka za Inženjerski menadžment u toku prolećnog semestra 2019. godine imali mogućnost da deo školovanja ostvare u inostranstvu (Mađarska). U okviru ovog projekta, studenti Danijel Bogosavljević, Maja Putojić i Maja Veljković, proveli su po jedan semestar na ovom univerzitetu. Takođe, ostvarena je i mobilnost nastavnika Fakulteta Sandra Vasković i Sanela Arsić, na Obuda univerzitetu u Budimpešti. Pored toga, ostvarena je i mobilnost nastavnika Andras Kaszthelyi i Ferenc Katona sa Obuda univerziteta iz Budimpešte Tehničkom fakultetu u Boru.

Takođe, u okviru programa Evropske unije ERASMUS+KA1, nastavnici Patrick Eisner i Saikhantuya Buyannasan, sa Univerziteta Montanuniversität Leoben boravili su na Tehničkom fakultetu u Boru, dok je nastavnik Prof. dr Srba Mladenović, boravio na Univerzitetu Leoben.

Potom, nastavnici Dragiša Stanujkić i Marija Panić su boravili na Univerzitetu istočne Finske, dok su profesori Olalla Diaz i Sini Rantanen sa ovog Univerziteta boravili u Boru. U okviru istog projekta ERASMUS+KA1 mobilnosti, studenti Momir Popović, Maja Stanujkić i Milica Zlatković, su proveli po jedan semestar na Univerzitetu istočna Finska.

#### ***g. Mobilnost u okviru Evropske CEEPUS mreže za mobilnost nastavnika i studenata***

U 2019. godini, nastavnici i saradnici su se dodatno angažovali i u korišćenju sredstava raspoloživih za mobilnost, u okviru CEEPUS mreže Evropskih univerziteta. U okviru ove mreže, saradnici Jelena Ivaz i Pavle Stojković, boravili su u Hrvatskoj u Dubrovniku na Internacionalnoj školi iz oblasti rudarstva (DIM ESEE 2019).

#### ***h. Mobilnost u okviru međunarodnog projekta JST SATREPS (Japan)***

Tokom 2019. godine, nastavljene su i aktivnosti 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. U okviru navedenog projekta, realizovane su aktivnosti razvoja profesionalnih kompetencija među učesnicima projekta; razvoj veština terenskog rada; unapređenje znanja i sticanje praktičnih veština za uspešno nadgledanje faktora koji utiču na zagađenje životne sredine; razvoj digitalnih kompetencija; razvoj ekološke svesti lokalnog stanovništva kroz prezentaciju rezultata dobijenih tokom projekta. U sklopu ovog projekta, u periodu od 12. do 13. avgusta 2019. godine, Tehnički fakultet u Boru su posetili studenti sa AKITA univerziteta iz Japana, predvođeni prof. dr Daizo Ishiyamom i prof. dr Kazutoshi Hagom. Studentima iz Japana i studentima sa Tehničkog fakulteta u Boru održana su prigodna predavanja. Predavači su bili: prof. dr Daizo Ishiyama i prof. dr Kazutoshi Haga sa AKITA univerziteta, kao i prof. dr Saša Stojadinović i prof. dr Aleksandra Mitovski sa Tehničkog fakulteta u Boru.

### **6. Promocija i popularizacija nauke**

Kao i ranijih godina, tokom 2019. godine, Tehnički Fakultet u Boru je nastavio sa tradicionalnim aktivnostima u okviru promocije i popularizacije nauke.

- U periodu februar – april 2019. godine, grupa za promociju Fakulteta je organizovala posete svim srednjim školama u Boru, kao i školama u sledećim gradovima: Zaječar, Negotin, Kladovo, Svrlijig, Leskovac, Jagodina, Pirot, Čuprija, Paraćin, Boljevac, Žitorađa, Bojnik, Lebane, Despotovac, Prokuplje, Crna Trava, Sokobanja, Užice, Trstenik, Majdanprek, Donji Milanovac, Aleksinac, Žagubica, Doljevac, Kuršumlja, Surdulica, Vladičin Han, Požarevac, Vlasotince, Vranje.
- U okviru obeležavanja Dana studenata Beogradskog univerziteta, 4. aprila, na Tehničkom fakultetu u Boru, Univerziteta u Beogradu, organizovan je događaj DAN OTVORENIH VRATA 2019. Vrata su bila otvorena za buduće visokoškolce, maturante borskih srednjih

škola, kao i srednjih škola iz Negotina, Žitorađe i Zaječara. Tom prilikom budući studenti su imali priliku da razgovaraju sa upravom fakulteta, nastavnicima, saradnicima i studentima fakulteta, kao i da dobiju neophodne informacije o predstojećem upisu na fakultet. Takođe su u okviru posete obišli laboratorije, učionice kao i Mineralošku zbirku fakulteta. Nakon posete fakultetu, srednjoškolci su zajedno sa nastavnicima i studentima Tehničkog fakulteta u Boru organizovano posetili Studentski Centar Bor, Zoološki vrt Bor i Muzej rudarstva i metalurgije Bor. U okviru ove manifestacije, grupa učenika iz Mašinsko - elektrotehničke škole u Boru je predstavila rezultate svojih projekata iz oblasti programiranja. Koordinator projekta bio je Prof. dr Dragiša Stanujkić sa Tehničkog fakulteta u Boru i Ivan Milutinović, profesor Mašinsko elektrotehničke škole. Prethodno je, sredinom marta 2019. godine, prof. Stanujkić organizovao radionicu sa učenicima srednje škole, na kojoj su dobili projektne zadatke na kojima je trebalo da rade do prezentacije na Fakultetu.

- Takođe, u okviru proslave Dana studenata Univerziteta u Beogradu, studenti i nastavnici Tehničkog fakulteta u Boru organizovali su tradicionalnu manifestaciju XVI SKOK PREKO KOŽE (predsednik organizacionog odbora je bio prof. dr Vitomir Milić, red. profesor, a zamenik predsednika doc. dr Dejan Petrović). Predstava je održana 4. aprila 2019. godine u 18 sati u bioskopu "ZVEZDA" u Boru uz podršku i pomoć Grada Bora, "Zijin Bor Copper" DOO Bor, Centra za kulturu grada Bora, "HEINEKEN" Srbija DOO Zaječar, "Teko Mining" DOO Beograd, Studentskog centra Bor, Kamernog hora Lavirint Zaječar, JP za PEU Resavica, Društva inženjera i tehničara Resavica, i Medija Istočne Srbije.
- Tehnički fakultet u Boru, kao jedan od suorganizatora, dao je doprinos 2. Humanitarnom sportskom i poetskom druženju prosvetnih radnika Bora, pod sloganom "Borska prosveta za radost dečijeg sveta", koji je organizovan 05.04.2019. godine. Manifestacija "Humanitarno sportsko i poetsko druženje prosvetnih radnika Bora", drugu godinu za redom, ima za cilj okupljanje borskih prosvetnih radnika, od predškolskog do visokoškolskog nivoa, koji obrazovnu delatnost obavljaju u sistemu Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije. Sa Tehničkog fakulteta u Boru na poetskoj večeri su učestvovali: dr Mirjana Rajčić Vujasinović (red.prof. u penziji), dr Darko Kocev i dr Aleksandra Mitovski, kao i dr Lidija Gomidželović, nekadašnji student Fakulteta.
- U amfiteatru Tehničkog fakulteta u Boru, 14. juna 2019. godine u 12 časova održana je Svečana akademija povodom Dana fakulteta. U sklopu proslave, organizovana je i izložba pod nazivom "UDAHNI NAUKU MLADIMA", a u organizaciji Fondacije "dr Berislav Ristić- Berko", Društva mladih istraživača Bor i Tehničkog fakulteta u Boru. Izložba je posvećena životu i radu naših profesora: pok. prof. dr Berislava Ristića-Berka i pok. prof. dr Mirjane Ristić, koji su najveći deo svog radnog veka proveli na Tehničkom fakultetu u Boru, ostvarivši pritom značajne naučne rezultate.
- Borska Noć istraživača – BONIS 2019 je održana u Boru, na platou Doma kulture, 27. 09. 2019. godine. Organizatori ove manifestacije bili su: Društvo mladih istraživača Bor,

Tehnički fakultet u Boru, U.G. „Vilaž“ Bor, Tehnička škola Bor, O.Š. „3. oktobar“ Bor, O.Š. „Dušan Radović“ Bor, O.Š. „Stanoje Miljković“ Brestovac, Muzej rudarstva i metalurgije iz Bora. Tehnički fakultet u Boru, je od samog početka navedene manifestacije uzeo aktivno učešće u organizaciji, a takođe je jedan od inicijatora ove manifestacije.

- Dana 1. oktobra 2019. godine, na Tehničkom fakultetu u Boru, obeležen je početak nove školske godine tradicionalnom manifestacijom Open Day 2019. Svečanim činom, u prisustvu mnogobrojnih zvanica i ostalih gostiju, nastavnika, radnika, penzionera i studenata fakulteta, promovisani su studenti koji su u prethodnoj školskoj godini stekli zvanja na osnovnim i master akademskim studijama. U školskoj 2018/2019. godini osnovne akademske studije na Tehničkom fakultetu u Boru završilo je 76 studenata, dok je master akademske studije završilo 27 studenata. Studentima su ovom prilikom podeljene diplome. Pored toga, proglašeni su i najbolji studenti studijskih programa i to: Bojan Vojinović, na studijskom programu Rudarsko inženjerstvo; Milica Jovkić, na studijskom programu Metalurško inženjerstvo; Jovana Pešić, na studijskom programu Tehnološko inženjerstvo; Mihajlo Grečić, na studijskom programu Inženjerski menadžment. Za studenta generacije Fakulteta proglašen je Mihajlo Grečić, sa studijskog programa Inženjerski menadžment sa ostvarenom prosečnom ocenom 9,64 tokom studija.
- Dana 2. novembra 2019. godine u prostorijama OŠ “3. oktobar” u Boru, održan je VIII festival nauke TNT 2019. Organizatori festivala su bili: Društvo mladih istraživača Bor; Tehnički fakultet u Boru; Osnovna škola “3. oktobar” Bor; Osnovna škola “Stanoje Miljković” iz Brestovca i UG “Village” Bor.

## **7. Učešće Tehničkog fakulteta u Boru na sajmovima**

Tehnički Fakultet u Boru je u 2019. godini imao zapaženo učešće na sledećim sajmovima:

- 14.03.2019. godine, u Čupriji je održan 7. Regionalni sajam obrazovanja – NOU FEST 2019. Tehnički fakultet u Boru je nastupio na ovoj manifestaciji, promovišući svoja četiri studijska programa srednjoškolcima, pre svega maturantima sa područja centralne Srbije. U veoma dobroj sajamskoj atmosferi, među brojnim, kako državnim, tako i privatnim fakultetima i visokim školama, štand Tehničkog fakulteta u Boru je privlačio pažnju brojnih srednjoškolaca, naših potencijalnih studenata.
- Dana 19. i 20.04.2019. godine, u Nišu je održan međunarodni sajam obrazovanja – MOJA KARIJERA – MOJ IZBOR. Tehnički fakultet u Boru je nastupio na ovoj manifestaciji, promovišući svoje studijske programe srednjoškolcima, pre svega maturantima sa područja grada Niša i okolnih mesta, kao i njihovim roditeljima.
- Pod okriljem Ministarstva prosvete, nauke i tehnološkog razvoja, Tehnički fakultet u Boru, u periodu od 21. do 24. maja 2019. godine je učestvovao na Sajmu tehnike i tehničkih dostignuća. Sajam je organizovan pod sloganom “Vreme je za nove tehnologije”, i na sajmu je učestvovalo oko 600 domaćih i stranih izlagača iz više od 30 zemalja, a na kome su se predstavile još i 30-tak naučno-istraživačkih organizacija iz Srbije koje su prezentovale svoje

projekte koje je finansiralo resorno ministarstvo. Predstavljani su najnoviji naučni rezultati istraživača sa našeg fakulteta, koji učestvuju na 26 projekata MPTNR: 9 - u oblasti osnovnih istraživanja, 13 u oblasti tehnološkog razvoja i 4 u oblasti integralnih i interdisciplinarnih istraživanja, od čega su na 5 pomenutih projekata rukovodioci naši profesori (prof. dr Milan Antonijević, prof. dr Dragan Manasijević, doc. dr Ivana Marković, prof. dr Nada Štrbac i prof. dr Nenad Vušović).

## **8. Studijski boravci ili posete univerzitetima iz inostranstva**

*Januar 2019. god.*

- Prof. dr Radoje Pantović boravio je na Univerzitetu u Petrošaniju, gde je imao sastanak sa Rektorom ovog Univerziteta

*Mart 2019. god.*

- Prof. dr Radoje Pantović, boravio je u Ljubljani u Sloveniji, radi prisustva sastanku internacionalnog projekta RIS-CuRe.
- Prof. dr Dragiša Stanujkić, boravio je u Rumuniji, u Temišvaru, na međunarodnoj konferenciji „International Conference on Tourism and Sustainable Development“, gde je održao predavanje po pozivu.
- Prof. dr Radoje Pantović, boravio je u Istočnom Sarajevu. Republika Srpska, radi učešća na međunarodnom kongresu „VI International congress Engineering, environmental and materials in processing industry“.

*April 2019. god.*

- Prof. dr Nada Štrbac i prof. dr Milan Trumić, boravili su u Temišvaru, Rumunija, radi prisustva na sastanku sa vodećim partnerom u okviru internacionalnog projekta Interreg – IPA CBC.
- Doc. dr Sanela Arsić i nastavnik engleskog jezika Sandra Vasković, boravile su u Budimpešti, Mađarska, radi učešća na IX internacionalnoj nedelji, po pozivu Obuda Univerziteta, u okviru programa ERASMUS + projekta mobilnosti.

*Maj 2019. god.*

- Prof. dr Dragan Manasijević i prof. dr Ljubiša Balanović boravili su u Temišvaru, Rumunija. Prof. dr Ljubiša Balanović je održao predavanje na pozivu, dok je prof. Dragan Manasijević izložio rad na konferenciji CATCAR28 & MoldTAC2
- Prof. dr Srba Mladenović, univerzitetski nastavnik u zvanju vanrednog profesora, boravio je u Leoben-u, Austrija, gde je održao predavanje po pozivu na Univerzitetu Montenegro Leoben, u okviru ERASMUS + projekta mobilnosti.
- Prof. dr Dragan Manasijević i prof. dr Ljubiša Balanović boravili su u Sisku, Hrvatska, gde su izložili radove po pozivu na konferenciji „18th International Foundryman Conference“.



- Asistent Ivan Đorđević, boravio je u Bečićima, Crna Gora, kao vođa grupe studenata Tehničkog fakulteta u Boru, na međunarodnoj studentskoj manifestaciji „Tehnologijada 2019“.
- Asistent Pavle Stojković, boravio je u Bijeljini, Bosna i Hercegovina, kao vođa grupe studenata Tehničkog fakulteta u Boru, na međunarodnoj studentskoj manifestaciji: „Georudarijada 2019“.
- Prof. dr Dragiša Stanujkić i Doc. dr Marija Panić, boravili su u gradu Joensuu, u Finskoj, gde su održali predavanja po pozivu na Univerzitetu Istočne Finske, u okviru programa ERASMUS +, projekta mobilnosti.

#### *Jun 2019. god.*

- Prof. dr Milan Trumić, boravio je u Atini, Grčka, radi proširenja saradnje na međunarodnim projektima sa profesorima Univerziteta u Atini (National Technical University of Athens).
- Doc. dr Aleksandra Fedajev i doc. dr Marija Panić, boravile su u Vilnius, Litvanija, na sastancima u okviru međunarodnog projekta: „Interdependence between illegal trade in tobacco and corruption, money laundering and organized crime“.
- Prof. dr Vladimir Despotović, boravio je u Košicama, Slovačka, radi realizacije projektnih aktivnosti u okviru bilateralnog projekta: „Fractional calculus approach to machine learning“.

#### *Jul 2019. god.*

Prof. dr Radoje Pantović, boravio je u gradu Košice u Slovačkoj, radi prisustva sastaku internacionalnog projekta RIS-CuRE u rudniku Slovinky.

#### *Avgust 2019. god.*

Prof. dr Dragan Mansijević i prof. dr Ljubiša Balanović boravili su u Rimu, Italija, gde su izložili radove na međunarodnoj konferenciji 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5) and 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019).

#### *Septembar 2019. god.*

- Prof. dr Snežana Šerbula boravila je u Antaliji, Turska, na međunarodnoj konferenciji „World Clean Air Congres“.
- Prof. dr Nenad Vušović boravio je u gradu Štuttgart, Nemačka, radi učešća na konferenciji „INTERGEO CONFERENCE 2019“ i prisustvu sajmu opreme iz domena savremenih geoinformacionih tehnologija.

*Oktober 2019. god.*

- Prof. dr Ivana Đolović, Doc. dr Ivana Stanišev i Doc. dr Darko Kocev, boravili su u Budvi, Crna Gora, radi prisustva na naučnom skupu „Susret matematičara Srbije i Crne Gore“.
- Prof. dr Nada Štrbac i Prof. dr Dragan Manasijević, boravili su u Zenici, Bosna i Hercegovina, na svečanosti povodom obeležavanja 60. godina Matalurško-tehnološkog fakulteta u Zenici.
- Doc. dr Zoran Štirbanović, boravio je u gradu Trou u Francuskoj, radi stručnog usavršavanja na Tehnološkom fakultetu Troa.
- Asistenti Jelena Ivaz i Pavle Stojković, boravili su u Dubrovniku, Hrvatska, u cilju pohađanja međunarodne škole rudarstva: „International Mining Schhool DIM ESEE 2019“, u okviru programa mobilnosti evropske CEEPUS mreže.

*Novembar 2019. god*

- Prof. dr Milan Trumić, Doc. dr Maja Trumić i Vukosav Antonijević, šef službe računovodstva, boravili su u Temišvaru, Rumunija, u okviru realizacije međunarodnog projekta prekogranične saradnje Srbija – Rumunija.
- Prof. dr Radoje Pantović i Prof. dr Dejan Tanikić, boravili su u Krajovi, Turn Severinu i Opštini Vulkan, u Rumuniju. Profesori su učestvovali na sastancima u okviru delegacije iz Bora u poseti Univerzitetu Petrošani.

*Decembar 2019. god.*

- Prof. dr Ivan Mihajlović boravio je u Budimpešti, Mađarska, radi učešća na naučnom panelu: „Conference on University Business Cooperation in Central Europe – CUBCCE“

## **9. Studijski boravci ili posete sa drugih univerziteta iz inostranstva**

*Maj 2019. god*

- Mađarska delegacija (ERASMUS+ projekta) Velencei Jolan, Reicher Regina Zsuzan, Andras Kaszthelyi i Ferenc Katona sa Obuda Univerziteta u Mađarskoj posetili su Fakultet i tom prilikom održali predavanja za doktorande sa Tehničkog fakulteta u Boru.

*Jun 2019. god*

- predstavnici Univerziteta Montanuniversität Leoben Patrick Eisner i Saikhantuya Buyannasan, su boravili su na Tehničkom fakultetu u Boru, u okviru ERASMUS + projekta mobilnosti
- profesori Olalla Diaz i Sini Rantanen sa Univerziteta Istočna Finska su na Tehničkom fakultetu u Boru, održali predavne studentima osnovnih i master studija.

*Novembar 2019. god*

- Profesori Cioabla Adrian – Eugen, Brateanu Gavril, Dungan Luisa – Izabel, Popescu Francisc i Lelea Dorin sa Politehnica University Timisoara, prisustvovali su na Okruglom stolu organizovanom povodom početka internacionalnog IPA CBC – Interreg projekta.

## **10. Prezentacije, predavanja i nagrade**

- Podružnica Srpskog hemijskog društva (SHD) Bor održala je Godišnju sednicu Skupštine, 8. februara 2019. godine, u svečanoj sali Tehničkog fakulteta u Boru. Predsednik podružnice SHD Bor, doc. dr Ivana Marković, podnela je izveštaj o radu Podružnice za 2018. godinu kao i plan rada Podružnice za 2019. godinu. U okviru Godišnje sednice Skupštine dr Vladan Ćosović, naučni savetnik sa Instituta za hemiju, tehnologiju i metalurgiju u Beogradu održao je zapaženo predavanje pod nazivom "Elektrokontaktni materijali na bazi srebra – savremeni izazovi, pristupi i rešenja". Brojne prisutne kolege imale su priliku da čuju o aktuelnim istraživanjima na polju razvoja novih elektrokontaktnih materijala sa manje štetnim uticajem na životnu sredinu u skladu sa direktivom Evropske Unije 2002/95/EC (RoHS).
- Na Tehničkom fakultetu u Boru, 26. februara 2019. godine, organizovan je prijem Njene ekselencije Rut Stjuart, ambasadora Australije u Republici Srbiji i njenih saradnika Ane Redžić, političkog savetnika i Stevana Vasića, političkog i ekonomskog savetnika. Na sastanku sa prof. dr Draganom Manasijevićem, prodekanom za nastavu, prof. dr Ivanom Mihajlovićem, šefom Odseka za inženjerski menadžment i dr Isidorom Milošević, vanrednim profesorom, razmatrana je mogućnost saradnje Fakulteta sa univerzitetima u

Australiji. S obzirom na to da je rudarstvo u Australiji jedna od najrazvijenih grana, poseta Tehničkom fakultetu u Boru bila je značajna, jer je Njena ekscelencija Rut Stjuart imala prilike da vidi kako se na fakultetima u Srbiji obrazuju budući diplomirani inženjeri rudarstva, metalurgije, tehnologije i menadžmenta. U okviru posete, tokom obilaska Mineraloške zbirke Tehničkog fakulteta u Boru, usledio je i kraći razgovor sa studentima Tehničkog fakulteta u Boru.

- Studenti IV godine Mihajlo Grečić i Miloš Stanković i studenti master studija Emanuela Bogdanović i Ana Stanković sa mentorom Nenadom Milijićem, ostvarili su veoma dobar rezultat u kvizu znanja iz Project menadžmenta, koje je organizovala IPMA, 11. marta 2019. godine. Predstavnici našeg fakulteta, tom prilikom, imali su rezultat od 76%, što je iznad evropskog proseka za šampionat koji se organizuje i u drugim zemljama sveta.
- Prof. dr Snežana Urošević organizovala je radionice “Karijerno vođenje i savetovanje”. Pored prof. Urošević, u timu ovih radionica učestvovalo je i sedam studenata volontera sa Tehničkog fakulteta u Boru (Milica Mitić, Aleksandra Ilić, Aleksandra Milovanović, Marko Tasić, Andrea Dobrosavljević, Vera Tasić i Jelena Kovačević). Ove radionice su održane 13. marta u Tehničkoj školi u Boru i 19. marta u Ekonomsko-trgovinskoj školi Bor. Na radionicama su učestvovali učenici trećeg i četvrtog razreda ovih škola.
- Dana, 1. aprila 2019. godine na Tehničkom fakultetu u Boru je, u okviru Nedelje otvorenih podataka, održan je Dan otvorenih podataka u Boru. Dan otvorenih podataka u Boru organizovali su GIS udruženje Srbije i Tehnički fakultet u Boru uz podršku Programa Ujedinjenih nacija za razvoj (UNDP) i Kancelarije za informacione tehnologije i elektronsku upravu u sklopu projekta ”Otvoreni podaci – otvorene mogućnosti”. Događaju su, pored studenata i nastavnika sa Tehničkog fakulteta u Boru prisustvovali i učenici Tehničke škole u Boru, kao i predstavnici nevladinih organizacija.
- Dana 03. aprila 2019. godine na Tehničkom fakultetu u Boru, održana je radionica „Simulacija intervjua za posao“ Centra za razvoj karijere i savetovanje studenata Univerziteta u Beogradu. Radionica „Simulacija intervjua za posao“ je jedna od sesija Online kursa „Veštine upravljanja karijerom“ koji se uspešno realizuje u saradnji sa Centrom za razvoj karijere i savetovanje studenata.
- Dana 29. maja 2019. godine dekan Tehničkog fakulteta u Boru, prof. dr Nada Štrbac svečano je podelila sertifikate studentima osnovnih i master akademskih studija, polaznicima On line kursa Centra za razvoj karijere Univerziteta u Beogradu. Centar za razvoj karijere u saradnji sa Tehničkim fakultetom u Boru realizovao je i tokom školske 2018/2019 godine onlajn kurs Veštine upravljanja karijerom. Kurs je koncipirao tim Centra za razvoj karijere i savetovanje studenata Univerziteta u Beogradu i uspešno se realizuje u onlajn formi od školske 2016/2017 godine za studente Tehničkog fakulteta u Boru na Moodle platformi u okviru e-Learning sistema Univerziteta u Beogradu.
- Tokom 2019. godine, za studente svih nivoa, organizovani su Kursevi akademske čestitosti, u okviru online platforme postavljene na web stranici Tehničkog fakulteta u Boru.

- U sklopu pripremne faze za uvođenje SAP University Alliances programa u nastavni proces na Tehničkom fakultetu u Boru, petoro profesora sa našeg Fakulteta su imali priliku da prođu praktičnu obuku za rad u SAP/ERP sistemu u okviru četiri različita poslovna modula, koja je realizovana tokom maja meseca 2019. godine, na Mašinskom fakultetu i Ekonomskom fakultetu Univerziteta u Beogradu. Univerzitet u Beogradu je postao član SAP University Alliances programa 2016. godine. Pored studenata Mašinskog fakulteta, Fakulteta organizacionih nauka i Ekonomskog fakulteta, i studenti Tehničkog fakulteta u Boru od 2019. godine će imati priliku da steknu osnovna znanja i veštine rada u SAP ERP modulima najnovije generacije.
- U amfiteatru Tehničkog fakulteta u Boru, 29. maja 2019. godine, na prigodnoj svečanosti uručeni su ugovori o stručnoj praksi u kompaniji Serbia Zijin Bor Copper, studentima završnih godina Tehničkog fakulteta u Boru. Ugovori su potpisani sa 38 studenata i važe do njihovog diplomiranja, sa mogućnošću njihovog kasnijeg zapošljenja u kompaniji. Pored rada u kompaniji, studenti će dva sata dnevno učiti i kineski jezik, a dobijaće i odgovarajuću mesečnu novčanu naknadu. Ugovore je studentima uručio direktor za ljudske resurse kompanije Serbia Zijin Bor Copper Huang Zhaoyu.
- Dana 31. maja 2019. godine Tehnički fakultet u Boru bio je domaćin posete predstavnika kompanije HBIS Group Serbia. Tom prilikom studenti sa Odseka za metalurško inženjerstvo, kao i sve zainteresovane kolege, imali su priliku da čuju dva interesantna predavanja iz prakse svetski poznata i priznata stručnjaka iz oblasti proizvodnje gvožđa i čelika. Naime, gospodin Jun Zhao, generalni direktor kompanije i gospodin Vladan Mihailović, generalni menadžer primarne proizvodnje govorili su na temu „HBIS Srbija put do uspeha”. U svom nadahnutom i poučnom izlaganju govorili su o analizi trenutnog stanja sa akcentom na budući intenzivni razvoj crne metalurgije u Srbiji kroz modernizaciju i ulaganje u savremenu opremu i ljudske resurse, što su primarni ciljevi kompanije HBIS Group Serbia. Drugo predavanje održao je bivši student Tehničkog fakulteta u Boru, a sada perspektivni mladi stručnjak na poziciji samostalni tehnolog visokopećnog procesa gospodin Vladan Andrejić. Tema njegovog predavanja bila je „Upotreba 100 % peleta u zasipu Visoke peći“.
- Dana 02.08.2019. godine na Tehničkom fakultetu u Boru je boravila delegacija Centralno-južnog Univerziteta (Central South University) iz Narodne Republike Kine. Članove delegacije su činili: Prof. dr Hu Yuehua, potpredsednik Centralno-južnog Univerziteta; Prof. dr Wei Sun, dekan Fakulteta za pripremu mineralnih sirovina i bio-inženjering ; Prof. dr Zhiyong Gao, prodekan Fakulteta za pripremu mineralnih sirovina i bio-inženjering i g-din Gao Dongbo, zamenik direktora kancelarije za međunarodnu saradnju i razmenu. Delegaciju Tehničkog fakulteta u Boru su činili Prof. dr Radoje Pantović, prodekan za finansije Tehničkog fakulteta u Boru; Prof. dr Milan Trumić, šef Rudarskog odseka i Katedre za mineralne i reciklažne tehnologije i doc. dr Zoran Štirbanović. Na sastanku su razmatrane mogućnosti za buduću saradnju između Centralno-južnog Univerziteta iz Kine i Univerziteta u Beogradu, odnosno Tehničkog fakulteta u Boru.

- U periodu od 12. do 13. avgusta 2019. godine, Tehnički fakultet u Boru su posetili studenti sa AKITA univerziteta iz Japana, predvođeni prof. dr Daizo Ishiyamom i prof. dr Kazutoshi Hagom. Poseta je obavljena u okviru aktivnosti na SATREPS projektu, gde su se studenti upoznali sa mogućnostima rada i istraživanja na Tehničkom fakultetu u Boru. Pored toga, studentima iz Japana i studentima sa Tehničkog fakulteta u Boru održana su prigodna predavanja. Predavači su bili: prof. dr Daizo Ishiyama i prof. dr Kazutoshi Haga sa AKITA univerziteta, kao i prof. dr Saša Stojadinović i prof. dr Aleksandra Mitovski sa Tehničkog fakulteta u Boru.
- Svečana promocija najboljih studenata Univerziteta u Beogradu održana je u petak, 13. septembra 2019. godine, u Svečanoj sali Rektorata. Na ovoj svečanosti povodom Dana Univerziteta dodeljene su nagrade „Student generacije“ studentima sa svakog od 31 fakulteta Univerziteta u Beogradu, koji su diplomirali u školskoj 2017/18. godini sa najvišom prosečnom ocenom. Za postignute izvanredne rezultate tokom studija tradicionalnu povelju „Student generacije“ ove godine poneo je i diplomirani student Tehničkog fakulteta u Boru Dušan Bogdanović. Dušan Bogdanović je osnovne akademske studije na studijskom programu Inženjerski menadžment završio u roku sa prosečnom ocenom 9.95 i ocenom 10 na završnom radu.
- Studentkinje Tehničkog fakulteta u Boru Jelena Kovačević i Tamara Ilić, sa studijskog programa Inženjerski menadžment, osvojile su ove godine prvu nagradu na konkursu za najbolji naučno-istraživački rad sa grupacije fakulteta tehničko-tehnoloških nauka Univerziteta u Beogradu. One su svoj nagrađeni rad pod nazivom „SWOT-AHP/FAHP model za prioritizaciju strategija razvoja internet preduzetništva“, uradile pod mentorskim vođstvom profesora Đorđa Nikolića i Isidore Milošević. U sklopu proslave Dana Univerziteta u Beogradu, rektor profesorka Ivanka Popović je 13.septembra 2019. godine u Svečanoj sali Rektorata uručila nagrade pobednicima ovog konkursa.
- Dana 14.11.2019. godine, u Amfiteatru Tehničkog fakulteta u Boru, u organizaciji Inženjerske komore Srbije – Veća matične sekcije inženjera mašinske struke Regionalnog centra Bor, Veća matične sekcije inženjera mašinske struke Regionalnog centra Niš, a u saradnji sa kompanijom MESSER TEHNOGAS AD Beograd, kompanijom Alfa klima doo Knjaževac i Tehničkim fakultetom u Boru, održano je Savetovanje sa stručnom posetom, pod nazivom: “Energetska efikasnost i zaštita životne sredine – putevi do cilja, Zeleni grad”- savremeni sistemi u energetici i dosadašnja iskustva u praksi, na primeru MESSER TEHNOGAS AD – Bor sagledani kroz ulogu tehničkih gasova u industrijskim sistemima. Uspešno je prikazana prezentacija dosadašnjih i novih freonskih rešenja i prednost domaćih proizvodnih kapaciteta u oblasti freonskih rešenja, kao i iskustva u dosadašnjoj praksi u domenu reparature mašinskih delova.
- Povodom obeležavanja Svetskog dana sećanja na žrtve saobraćajnih nezgoda, dana 27.11.2019. god., Tehnički fakultet u Boru u saradnji sa GIS udruženjem Srbije organizovao je javnu tribinu pod nazivom “Kako i zašto mladi ljudi stradaju u saobraćaju”. Gostujući predavač bio je gospodin Igor Velić, master inženjer saobraćaja. Na tribini je bilo reči o uzrocima i posledicama saobraćajnih nezgoda na teritoriji grada Bora, a prisutnima su bili

predstavljani rezultati projekta “Sigurne staze i putanje kretanja učenika osnovnih i srednjih škola u Boru”. Ujedinjene Nacije su ovaj projekat uvrstile u pet najboljih za ovu godinu na teritoriji Republike Srbije.

- U okviru Info dana o projektnom menadžmentu, 10.12.2019., Fakultet su posetili prof. dr Vladimir Obradović, predsednik, doc. dr Ivana Berić i doc. dr Marija Todorović, članovi predsedništva IPMA. U uvodnom obraćanju, predstavnici IPMA su studentima, nastavnicima i saradnicima predložili brojne mogućnosti saradnje u okviru aktivnosti koje ova asocijacija sprovodi. Potom, rad se nastavio u dve sekcije. Jedna sekcija je posvećena nastavnicima i saradnicima, koju su vodili prof. Obradović i dr Ivana Berić. U okviru ove sekcije predloženi su programi sertifikacije projektnih menadžera, programi IPMA sertifikacije nastavnih predmeta i kurseva, kao i brojne konferencije, simpozijumi i obuke, koje ova asocijacija organizuje. Druga sekcija je bila posvećena studentima našeg Fakulteta. Ovu sekciju je vodila dr Marija Todorović. Pored nje sekciji su prisustvovali i predstavnici Odeljenja za ljudske resurse kompanije Elixir Group (<https://www.elixirgroup.rs/>). Docent dr Marija Todorović je studentima predložila obuke, radionice i takmičenja, koje se nude u okviru IPMA Young Crew asocijacije i na koje će tokom 2020. godine biti pozivani studenti našeg Fakulteta. Pored toga, predstavnici Elixir grupe su predložili mogućnosti stručne prakse za studente našeg Fakulteta, kao i njihove potrebe za kadrovima, što će biti jedna od mogućnosti za zaposlenje nakon diplomiranja.