

Прилог 6.7. Анализа утицаја на факултета Универзитета у Београду према PROMETHEE-GAIA методу (*Serbian Journal of Management* 12 (2) (2017) 171 - 187)



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**THE UNIVERSITY OF BELGRADE ON ARWU LIST - PART I:
THE IMPACT OF INDIVIDUAL FACULTIES ON THE ACHIEVED
POSITION USING PROMETHEE-GAIA METHOD**

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Table 2. Ranking of individual faculties by the criterion number of papers per researcher for the period 2011-2015.

Faculty	Number of papers/number of researchers	Cluster	Scientific field
Faculty of Chemistry - FCh	15.04	A	SM
Faculty of Biology - FB	13.00		SM
Faculty of Physical Chemistry - FPhyChe	11.68		SM
Faculty of Technology and Metallurgy - FTM	11.48		TES
Faculty of Pharmacy - FPh	11.41		MS
Faculty of Agriculture - FAg	9.28	B	TES
Faculty of Medicine - FM	9.19		MS
Faculty of Electrical Engineering - FEENG	8.73		TES
Technical Faculty in Bor - TfB	8.27		TES
Faculty of Physics - FPhys	7.31		SM
Faculty of Transport and Traffic Engineering - FTTEng	6.25		SM
Faculty of Mechanical Engineering - FMEng	5.83		TES
Faculty of Organizational Sciences - FOS	5.38		TES
Faculty of Mathematics - FMath	5.36		SM
Faculty of Mining and Geology - FMG	4.88		TES
Faculty of Veterinary Medicine - FVM	3.78		MS
Faculty of Forestry - FF	3.31		TES
Faculty of Civil Engineering - FCEng	3.27		TES
Faculty of Geography - FGeo	3.25		SM
Faculty of Dental Medicine - FDM	2.19		MS
Faculty for Special Education and Rehabilitation - FSER	2.03	C	SSH
Faculty of Sport and Physical Education - FSPE	1.76		SSH
Faculty of Economics - FE	1.56		SSH
Faculty of Architecture - FAr	1.19		TES
Faculty of Security Studies - FSS	0.55		SSH
Faculty of Political Sciences - FPS	0.49		SSH
Teacher Education Faculty - TEF	0.38		SSH
Faculty of Law - FL	0.25		SSH
Faculty of Orthodox Theology - FOT	0.21		SSH
Faculty of Philology - FP	0.17		SSH
Faculty of Philosophy - FPhy	0.06	SSH	

Table 3. Ranking of individual faculties by the number of citations per researcher in period 2011-2015 criterion

Faculty	Number of citations/number of researchers	Cluster	Scientific field
Faculty of Physical Chemistry - FPhyChe	39.93	A	SM
Faculty of Chemistry - FCh	33.56		SM
Faculty of Technology and Metallurgy - FTM	33.36		TES
Faculty of Medicine - FM	25.97		MS
Faculty of Biology - FB	23.54		SM
Faculty of Pharmacy - FPh	22.19		MS
Faculty of Physics - FPhys	20.87		SM
Faculty of Mathematics - FMath	12.58		SM
Technical Faculty in Bor - TfB	9.44	B	TES
Faculty of Electrical Engineering - FEENG	9.05		TES
Faculty of Organizational Sciences - FOS	8.56		TES
Faculty of Mechanical Engineering - FMEng	6.34		TES
Faculty of Mining and Geology - FMG	6.34		TES
Faculty of Forestry - FF	5.08		TES
Faculty of Agriculture - Fag	4.95		TES
Faculty of Transport and Traffic Engineering - FTTEng	4.68	TES	
Faculty of Veterinary Medicine - FVM	3.84	MS	
Faculty of Civil Engineering - FCEng	3.69	TES	
Faculty of Geography - FGeo	3.10	SM	
Faculty of Sport and Physical Education - FSPE	2.98	SSH	
Faculty for Special Education and Rehabilitation - FSER	1.72	SSH	
Faculty of Economics - FE	1.44	SSH	
Faculty of Architecture - FAR	1.14	C	TES
Faculty of Dental Medicine - FDM	0.98		MS
Faculty of Security Studies - FSS	0.74		SSH
Faculty of Political Sciences - FPS	0.19		SSH
Faculty of Philosophy - FPhy	0.18		SSH
Faculty of Philology - FP	0.11		SSH
Teacher Education Faculty - TEF	0.05		SSH
Faculty of Law - FL	0.02		SSH
Faculty of Orthodox Theology - FOT	0.02		SSH

Table 4. Ranking of impact of individual faculties by number of citation and number of papers per researcher criterion

Faculty	Number of citations/number of papers	Cluster	Scientific field	
Faculty of Physical Chemistry - FPhyChe	3.41	A	SM	
Faculty of Technology and Metallurgy - FTM	2.90		TES	
Faculty of Physics - FPhys	2.85		SM	
Faculty of Medicine - FM	2.82		MS	
Faculty of Mathematics - FMath	2.34		SM	
Faculty of Chemistry - FCh	2.23		SM	
Faculty of Pharmacy - FPh	1.94		MS	
Faculty of Biology - FB	1.81		SM	
Faculty of Philosophy - FPhy	1.73		SSH	
Faculty of Sport and Physical Education - FSPE	1.69		SSH	
Faculty of Organizational Sciences - FOS	1.59		TES	
Faculty of Forestry - FF	1.53		TES	
Faculty of Security Studies - FSS	1.36		B	SSH
Faculty of Mining and Geology - FMG	1.30	TES		
Technical Faculty in Bor - TfB	1.14	TES		
Faculty of Civil Engineering - FCEng	1.12	TES		
Faculty of Mechanical Engineering - FMEng	1.08	TES		
Faculty of Philology - FP	1.06	SSH		
Faculty of Electrical Engineering - FEENG	1.03	TES		
Faculty of Veterinary Medicine - FVM	1.01	MS		
Faculty of Geography - FGeo	0.95	C		SM
Faculty of Architecture - FAr	0.95			TES
Faculty of Economics - FE	0.92		SSH	
Faculty for Special Education and Rehabilitation - FSER	0.84		SSH	
Faculty of Transport and Traffic Engineering - FTTEng	0.74		TES	
Faculty of Agriculture - FAg	0.53		TES	
Faculty of Dental Medicine - FDM	0.44		MS	
Faculty of Political Sciences - FPS	0.38		SSH	
Teacher Education Faculty - TEF	0.12		SSH	
Faculty of Orthodox Theology - FOT	0.09		SSH	
Faculty of Law - FL	0.06		SSH	

Table 6. The results of PROMETHEE II final ranking

Rank	Name of Faculty	Faculty label in PROMETHEE model	Scientific field	Φ	Φ^*	$\Phi - \Phi^*$	Cluster ^a
1.	Faculty of Physical Chemistry	Fac_3	SM	0.8590	0.8617	0.0027	A
2.	Faculty of Technology and Metallurgy	Fac_4	TES	0.7971	0.8081	0.0080	
3.	Faculty of Chemistry	Fac_1	SM	0.7408	0.7663	0.0258	
4.	Faculty of Medicine	Fac_7	MS	0.7397	0.7671	0.0274	
5.	Faculty of Physics	Fac_10	SM	0.6880	0.7461	0.0582	
6.	Faculty of Pharmacy	Fac_5	MS	0.6160	0.6818	0.0658	
7.	Faculty of Biology	Fac_2	SM	0.5966	0.6679	0.0713	
8.	Faculty of Mathematics	Fac_14	SM	0.5183	0.6548	0.1365	
9.	Faculty of Organizational Sciences	Fac_13	TES	0.2856	0.4964	0.2108	B
10.	Technical Faculty in Bor	Fac_9	TES	0.1967	0.4443	0.2476	
11.	Faculty of Electrical Engineering	Fac_8	TES	0.1577	0.4269	0.2693	
12.	Faculty of Forestry	Fac_17	TES	0.1273	0.4142	0.2869	
13.	Faculty of Mining and Geology	Fac_15	TES	0.1246	0.4051	0.2805	
14.	Faculty of Mechanical Engineering	Fac_12	TES	0.0685	0.3766	0.3081	
15.	Faculty of Sport and Physical Education	Fac_22	SSH	0.0512	0.4000	0.3488	C
16.	Faculty of Civil Engineering	Fac_18	TES	-0.0673	0.3163	0.3836	
17.	Faculty of Veterinary Medicine	Fac_16	MS	-0.0922	0.3072	0.3994	
18.	Faculty of Transport and Traffic Engineering	Fac_11	TES	-0.1269	0.3164	0.4433	
19.	Faculty of Geography	Fac_19	SM	-0.1636	0.2851	0.4487	
20.	Faculty of Agriculture	Fac_6	TES	-0.1864	0.3216	0.5079	
21.	Faculty of Security Studies	Fac_25	SSH	-0.2403	0.2633	0.5038	D
22.	Faculty of Philosophy	Fac_31	SSH	-0.2440	0.2614	0.5254	
23.	Faculty of Economics	Fac_23	SSH	-0.3260	0.2362	0.5522	
24.	Faculty for Special Education and Rehabilitation	Fac_21	SSH	-0.3280	0.2326	0.5606	
25.	Faculty of Architecture	Fac_24	TES	-0.3375	0.2176	0.5551	
26.	Faculty of Philology	Fac_30	SSH	-0.4470	0.1614	0.6084	
27.	Faculty of Dental Medicine	Fac_20	MS	-0.5685	0.1729	0.7414	
28.	Faculty of Political Sciences	Fac_26	SSH	-0.7190	0.1162	0.8351	
29.	Teacher Education Faculty	Fac_27	SSH	-0.8487	0.0629	0.9116	
30.	Faculty of Orthodox Theology	Fac_29	SSH	-0.9232	0.0178	0.9410	
31.	Faculty of Law	Fac_28	SSH	-0.9480	0.0111	0.9591	

^aIn column Cluster faculties are grouped in 4 clusters (A, B, C, D) in accordance with the GADA plan, presented in Figure 4