

Academic Study Trends in Engineering and Basic Science

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Abstract: *In this study, engineering, numerical sciences, mathematical statistics and technological studies conducted by the academic staff of Bitlis Eren University have been evaluated. The main purpose here is to determine the areas where academicians work. The reasons for the results in the articles have not been addressed, and the studies that academicians have conducted according to their area of interest have been examined*

Keywords: *Engineering, Technology, Mathematics, Statistics, Academic trends*

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I. Introduction

Bitlis Eren University was built on a land of two thousand decare in 2007. The university is operated with 2 Institutes, 5 Faculties, 3 Academies and 7 Vocational High schools. At this University which is one of the most important social responsibility projects, 9160 students and more than 400 academicians are provided the ability to carry out scientific researches. Along with Faculty of Science and Letters, Faculty of Fine Arts, Faculty of Economics and Administrative Sciences, Faculty of Islamic Sciences and Faculty of Engineering and Architecture, there are 3 academies and 7 vocational high schools. Bitlis Eren University offers post graduate education opportunity at Faculty of Sciences and Social Sciences and runs research centers working on 7 different fields. Rectorate building and Faculty of Arts and Sciences building, Faculty of Architecture and Engineering are now in use. There is also one Eren Holding Guesthouse and Bitlis Eren University Memduh Eren Mosque. Bitlis Eren University rector's building is seen in Figure 1.



Figure 1. Bitlis Eren University Rectorate Building

Mission: Bitlis Eren University has the principle of integrating universal values with country values; fair, reliable and tolerant with the basis of love and respect, in the academically freedom environment; science,

technology and art's original, modern and superior qualifications to individuals; producing knowledge in education, teaching and service fields; maintaining the progress of region and country.

Vision: With transparency and participation principle; innovation in science and technology, qualification in education and training, aiming to develop, schooling for precedent individual, being respectful to society values becoming a university.

II. Academic Studies

Some academic studies done by Bitlis Eren University academicians are tabled for easy examination. A study covering a summary of engineering, numerical sciences, mathematical statistics and technological studies has been carried out. Table 1 shows some academic studies in the last 5 years.

References Number	Article Name	Subject
1	Realization of warming in LED lighting	LED lighting- Electrical Engineering
2	Practical Approaches in Vehicles When Providing Solar Energy and Vehicles Working With Solar Energy	Solar Energy- Electrical Engineering
3	Sabit Mıknatıslı Alternatörün Kullanılabilirliğinin Test Edilmesi	Mechanical Engineering
4	Power flow analysis by Artificial Neural Network,	Power Engineering
5	Artificial Neural Network Based Power Flow Analysis for Micro Grids,	Smart Grid
6	Numerical Approach to City Road Lighting Standards	LED lighting- Electrical Engineering
7	The Temperature-Pressure-Frequency Relationship Between Electrical Power Generating in Stirling Engines,	Solar Energy- Electrical Engineering
8	Cost Comparison of Constant and Tracking System PV Panels with Stirling Motor-Operated Systems	Solar Energy- Electrical Engineering
9	Sağdan Rasgele Sansürlü Verilerde Gamma Yenileme Fonksiyonunun Tahmini	Statistics
10	Gamma renewal functions in censored data.	Statistics
11	Exponential Renewal Function and its Statistical Characteristics	Statistics
12	Panel Poisson Regression	Statistics
13	A Research on Smart Grids in Turkey	Smart Grid - Electrical Engineering
14	Electricity Generation from Solar World	Solar Energy- Electrical Engineering
15	Reazilation of the Dynamic Test and Measurement System for Railway Electrification Systems	Transportation-Electrical Engin.
16	Reaktif Pudra Beton Yol Kaplamasının Gerilme Analizi	Transportation-Civil Engineering
17	Price-Efficiency Relationship for Photovoltaic Systems on a Global Basis	Solar Energy- Electrical Engineering
18	Frequency-Load Problem In Power Systems	Power Engineering
19	Rijit Üstyapi Beton Yol Kaplama Insası Üzerine Bir Çalışma	Transportation-Civil Engineering
20	Rijit Yol Kaplama Insasında Reaktif Pudra Beton RPB Malzeme Karışım Miktarlarının Belirlenmesi	Transportation-Civil Engineering
21	Smart Meter and Turkey	Smart Grid- Electrical Engineering
22	Akıllı sayaçların şebeke entegrasyonu ve Türkiye uygulaması	Smart Grid- Electrical Engineering
23	Solar Radiation and Temperature Effects on Agricultural Irrigation Systems	Solar Energy- Electrical Engineering
24	System Optimization On Smart Grid	Smart Grid- Electrical Engineering
25	Evaluation of Smart Grids and Turkey	Smart Grid- Electrical Engineering
26	Smart Meter and Cost Experiment	Smart Grid- Electrical Engineering
27	Pruduction Stages of Solid State Lighting Apparatus	LED lighting- Electrical Engineering
28	Driver circuit effects in LED Lighting Systems	LED lighting- Electrical Engineering
29	The Determination of the Optimum Parameters for Maximum Efficiency in Solar Tracking systems with Stirling Engine	Solar Energy- Electrical Engineering
30	Effects of Faults on Power Flow Analysis for Microgrids	Power Engineering
31	A Novel Approach to Power Flow Analysis for Grid Connected Micro Grid	Smart Grid- Electrical Engineering
32	Implemented Railway Safety Tests On High Speed Trains	Transportation-Electrical Engin.

33	Power Flow Analysis of a Distribution System Under Fault Conditions	Power Engineering
34	Frequency-Load Problem In Power Systems	Power Engineering
35	Endüstriyel Tesislerde Verimlilik ve Güneş Enerjisi Kullanımı	Solar Energy- Electrical Engineering
36	Solution Offers for Efficiency and Savings in Industrial Plants	Power Engineering
37	A review of prices for photovoltaic systems	Solar Energy- Electrical Engineering
38	Reaktif Pudra Beton Yol Kaplamasının Defleksiyon Analizi.	Transportation-Civil Engineering
39	Harmonic Filter Application for an Industrial Installation,	Power Engineering
40	Selection Criteria and Economic Analysis of LEDs,	LED lighting- Electrical Engineering
41	Numerical Analysis of Maintenance Factor for Tunnel and Road In Solid State Lighting	LED lighting- Electrical Engineering
42	IOT and Lighting Automation.	LED lighting- Electrical Engineering
43	Analysis of energy productivity in LED illumination by active or passive methods	LED lighting- Electrical Engineering
44	Numerical analysis of LED illumination productivity parameter	LED lighting- Electrical Engineering
45	Numerical Analysis of Productivity and Redemption Periods in LED Illumination	LED lighting- Electrical Engineering
46	Analysis of Power System Interharmonics	Power Engineering
47	Mikro Şebekenin Farklı İşletme Koşulları Altında İncelenmesi,	Smart Grid- Electrical Engineering
48	Academical approach to LED lamp or LED bulb confusion.	LED lighting- Electrical Engineering
49	Numerical analysis of warming and warming problem in LED lamps	LED lighting- Electrical Engineering
50	A study about preparing regulations regarding LED Illumination	LED lighting- Electrical Engineering
51	Türkiyede Akıllı Şebekeler Üzerine Bir İnceleme	Smart Grid- Electrical Engineering
52	Tarımsal Sulamada FV panellerde Verimlilik Değerlendirmesi,	Solar Energy- Electrical Engineering
53	Destek Vektör Makineleri ile Türkiye'nin Uzun Dönem Elektrik Arıza Tahmini Ve Modellemesi	Power Engineering
54	An approach to estimate occupational accidents using least-squares support vector machines,	Work security
55	Van Gölü Suyu ile Üretilen Ahlat Tası Betonun Rijit Yol Kaplama İnsasında Kullanılabilirliği.	Transportation-Civil Engineering
56	Cooperation of Conventional Electric Power Grids and SmartPower Grids	Smart Grid- Electrical Engineering
57	The Performance Cost Effect of the SCADA System on Distribution Networks	Power Engineering
58	Diyarbakır ılının güneş santrali yatırımı açısından değerlendirilmesi	Solar Energy- Electrical Engineering
59	EnergySavingand Solutions in Compressor,	Power Engineering
60	EnergySavingand Optimum Solution in ElectricMotors	Power Engineering
61	Driver Circuit Effects in LED Lighting Systems,	LED lighting- Electrical Engineering
62	Cost Comparison in LED Lighting and Selection Criteria in LEDs	LED lighting- Electrical Engineering
63	Endüstriyel Tesisler için Aktif ve Pasif Harmonik Filtre Uygulaması	Power Engineering
64	On distributions of discrete order statistics.	Statistics
65	Computing the moments of pareto order statistics	Statistics
66	On order statistics of discrete random variables.	Statistics
67	The Effect of Choosing the Sample on the Estimator in Pareto Distribution.	Statistics
68	Types of Pareto Distribution and Some Properties	Statistics
69	Distributions of order statistics arising from non identical continuous variables.	Statistics
70	Pareto Dağılımının Koşullu Sıra İstatistiklerinin Momentleri.	Statistics
71	Tesadüfi Pareto değişkenlerinin sıra istatistiklerinin momentleri.	Statistics
72	On discrete order statistics from nonidentical random variables	Statistics
73	On distributions of order statistics arising from nonidentical continuous variables.	Statistics
74	Reaktif Pudra Beton ile İnşa Edilecek Rijit Yol Kaplamasının Maliyet Hesaplaması	Transportation-Civil Engineering

75	Usability of ignimbrite powder in reactive powder concrete road pavement	Transportation-Civil Engineering
76	Asfalt yol kaplaması ile sanayi atık lifli reaktif pudra beton yol kaplamasının maliyet karşılaştırması.	Transportation-Civil Engineering
77	Rijit Yol Kaplama Beton İnşasında Ahlat Taşının Kullanılabilirliği	Transportation-Civil Engineering
78	Bitlis İli Kavsak Planlaması Üzerine Bir Çalışma	Transportation-Civil Engineering
79	Bitlis İli Havaalanı İnşası İçin Uygun Yer Seçiminin Araştırılması.	Transportation-Civil Engineering
80	Karayolu Asfalt Kaplama İnşasında Kullanılan Is Makinelerinin İrdelenmesi	Transportation-Civil Engineering
81	Development of combined cure type for rigid pavement with reactive powder concrete	Transportation-Civil Engineering
82	Sakarya Üniversitesi Esentepe Yöresi Rüzgar Enerjisi Potansiyeli Ölçüm ve Analiz Sonuçları	Mechanical Engineering
83	Nemli Havanın Psikometrik Özelliklerinin Bilgisayar Yardımıyla Belirlenmesi,	Mechanical Engineering
84	Pencere Geometrik Şeklinin Isı Kaybı İle İlişkisi Üzerine Bir Çalışma	Mechanical Engineering
85	Isı Değiştiricisinin İç Borusuna Yerleştirilen Konik Elemanların Isı Transferi Üzerine Etkisi	Mechanical Engineering
86	Rüzgâr Ölçüm İstasyonu Standartları ve Sakarya-Esentepe Rüzgâr Ölçüm İstasyonu	Mechanical Engineering
87	Sakarya Bölgesi Rüzgâr Enerjisi Potansiyeli	Mechanical Engineering
88	Rüzgâr Enerjisi Potansiyelinin Hesaplanmasında Weibull Dağılımının Kullanılması,	Mechanical Engineering
89	Rüzgâr Verilerinin Enerji Üretimi Amaçlı Değerlendirilmesi	Mechanical Engineering
90	Weibull distribution for determination of wind analysis and energy production	Mechanical Engineering
91	Rüzgâr Enerjisi Potansiyeli Bakımından Malatya İlinin Doğu Anadolu Bölgesindeki Yeri	Mechanical Engineering
92	Research on the Utilization Potentials of Wind and Solar Energies in Eastern Anatolia Region Of Turkey	Mechanical Engineering
93	Analysis of wind energy potential of Sakarya Esentepe region turkey	Mechanical Engineering
94	WindPRO Yazılımı İle Rüzgâr Enerjisi Potansiyel Analizi ve Örnek Uygulama	Mechanical Engineering
95	Enerji üretimi amaçlı hidroelektrik santral verilerinin değerlendirilmesi	Mechanical Engineering
96	Tıbbi Atıkların Buhar İle Sterilizasyonu ve Bitlis Örneği	Mechanical Engineering
97	Malatya İlinde Oluşan Evsel Katı Atıklardaki Enerji Potansiyeli	Mechanical Engineering
98	2012-2015 yılları demografik verileri bakımından aksarayın analizi	Industrial engineering
99	Cornering safety in vehicles and highways	Electrical Engineering
100	Electronic controlled bends	Electrical Engineering

III. Conclusion

When some recent academic studies were examined, which are total of 100 articles, it can be seen that 14 articles in the field of statistics, 40 articles in the field of electrical and electronics engineering, 18 article in the field of mechanical and industrial engineering, 13 articles in the field of power engineering, 14 articles in the field of civil engineering and 1 article in the field of work security have been studied. Studies in the field of civil engineering are based on the field of road covering and road strength. In the field of electrical-electronics engineering, it is seen that the work mainly focused on solar energy, lighting and energy saving. Power engineering seems to focus on intelligent networks. In the field of statistics, it is understood that the articles using optimization and related mathematical methods are written.

The overall trend shows that efficiency and use of renewable energy sources are given too much importance. Various mathematical methods have been used to emphasize optimizing methods for efficiency and saving. It is also seen that that academic articles related to road coating are also increasing in the field of transportation.

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