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An Analysis of Research Project Contributions of Alagappa University

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0. Abstract

This paper analysis the research project contributions of Alagappa University. The data were collected from Alagappa University Website (<https://alagappauniversity.ac.in/>) during March 2019. The study found that 574 projects from 126 faculty members from Science, Arts, and Social Science departments. The study also found that Industrial Chemistry department has contributed more projects then other departments and University Grants Commission (UGC) has funded more projects than other funding agencies.

Keywords: Research Projects, Funding Projects, Research Information Management System, University Research Performance.

1. Introduction

Research Projects plays the important role in any higher learning institutions to evaluate the Institution research contributions. Higher learning institutions are evaluated by the NAAC and NIRF for the quality and ranking based on the research contributions. Hence it is important to analyze the projects and funding by every year for the betterment of institution.

2. Review of Literature

Caroline Henry and Nor Azhura Md Ghani, et.al (2018) highlighted the impact of funding on UiTM's research productivity. Publications published by UiTM in 2012 to 2016 from Web of Science (WoS) were used to compare the impact of both funded and unfunded publications. The findings showed that 32.53% of the publications published from 2007 to 2016 were funded. Funded publications published in high impact journals have higher citations compared to unfunded publications particularly for Medical and Science & Technology related fields such as Clinical Medicine and Chemistry. This proves that financial assistance is key to drive quality research and produce impactful publications as it indirectly increases the institution's research productivity. Mohammad A Khiyami, Layal A AlHareqy and Abdulwali Aldahmash (2018) attempted to evaluate the impact of the types of grants, large (LG) or small (SG), funded by King Abdul-Aziz City for Science and Technology (KACST). Specifically, this research attempts to compare grants with regard to their scientific outputs as represented by the number of published articles, the number of reputable journals published within, and the with high impact factors at a rate of 0.51, which is greater than that of the large grants at 0.3562. This seems to point to the possibility that increasing the monetary size of grants' does not lead to better outcomes in terms of numbers of publications, prestige of journals published in, or total number of citations. In sum, the analyses indicate that the measurement of grant impacts is sensitive to how research performance is defined and tested using bibliometric indicators. It is recommended that future funds should be allocated according to more strict regulations and standards, outputs resultant of the research funding should be thoroughly documented and to determine appropriate research output metrics to evaluate projects.

3. Research Methodology

The Data were collected from Alagappa University Website (<https://alagappauniversity.ac.in/>). It is found that 574 research projects by 126 faculty members (at the time of data as on 10th March 2019) have been collected from University Website. The study is also aimed to analyze Academic wise funding, Department wise funding, top ten funding departments, top ten faculty members and top ten funding agencies. The Data were analyzed using Excel with simple calculations.

4. Objectives of the Study

These are the major objectives of the study.

- To analyze the academic wise research projects of Alagappa University;
- To find out the department wise research projects of Alagappa University;
- To analyze the top ten departments and web of science publications;
- To study the top ten faculty members and their funding publications;
- To analyze the various funding agencies and
- To find out the funding based publications.

5. Data analysis and Interpretation

Table 1: Academic wise Research Projects

S. No	Name of the Academic	No. of Research Projects	%	Rank
1	Faculty of Arts	150	26.13	2
2	Faculty of Education	85	14.80	3
3	Faculty of Management	52	9.05	4
4	Faculty of Science	287	50	1
Total		574		

Table 1 shows that academic wise Research projects. The Faculty of Science has received highest 287 (50%) research projects have placed first position followed by Faculty of Arts has received 150 (26.13%) research projects have placed second position. It is further found that Faculty of Management has received less number of research projects have placed last position.

Table 2: Department wise Research Projects

S. No	Name of the Department	No. of Research Projects	%	Rank
1	Tamil	4	0.69	27
2	Centre for Tamil Culture	1	0.17	37
3	English and Foreign Languages	3	0.52	31
4	Fine Arts	21	3.65	10
5	Women's Studies	12	2.09	15
6	Sociology	51	8.88	2
7	Economics and Rural Development	49	8.53	3
8	History	4	0.69	27
9	Library and Information Science	5	0.87	23
10	Education	31	5.40	7
11	Alagappa Institute of Educational Sciences	5	0.87	23
12	College of Education	9	1.56	18
13	Physical Education and Health Sciences	9	1.56	18
14	College of Physical Education	1	0.17	37
15	Special Education and Rehabilitation Science	3	0.52	31
16	Lifelong Learning	27	4.70	8
17	Alagappa Institute of Management	18	3.13	13
18	Logistics Management	5	0.87	23
19	International Business	2	0.34	35
20	Commerce	5	0.87	23
21	Corporate Secretaryship	12	2.09	15
22	Bank Management	9	1.56	18
23	Tourism and Hotel Management	1	0.17	37
24	Geology	3	0.52	31
25	Oceanography and Coastal Area Studies	15	2.61	14
26	Microbiology	21	3.65	10

S. No	Name of the Department	No. of Research Projects	%	Rank
27	Botany	4	0.69	27
28	Bioinformatics	24	4.18	9
29	Animal Health and Management	33	5.74	6
30	Biotechnology	39	6.79	4
31	Computational Logistics	7	1.21	22
32	Computer Science	1	0.17	37
33	Computer Applications	3	0.52	31
34	Energy Science	9	1.56	18
35	Nanoscience and Technology	12	2.09	15
36	Industrial Chemistry	54	9.40	1
37	Ramanujan Centre for Higher Mathematics	2	0.34	35
38	Mathematics	4	0.69	27
39	Bioelectronics and Biosensors	19	3.31	12
40	Physics	37	6.44	5
Total		574		

Table 2 indicates that Department wise research projects and it is found that Department of Industrial Chemistry has highest 54 (9.40 %) funding projects and placed first rank and followed by Department of Sociology 51 (8.8%) have placed second rank. A good number of research projects received by Department of Physical Education and Health Sciences, Department of College of Education, Bank Management and Department of Energy Sciences with 9 (1.56%) have placed Eighteenth Rank. It is further found that Centre for Tamil Culture, College of Physical Education, Department of Tourism and Hotel Management and Department of Computer Science get less number of 1(0.17%) research projects have placed thirty seventh rank.

Table 3: Top Ten Departments

S. No	Name of the Department	No. of Research Projects	%	Web of Science Publications	%
1	Industrial Chemistry	54	9.40	666	30.23
2	Sociology	51	8.88	0	0
3	Economics and Rural Development	49	8.53	7	0.31
4	Biotechnology	39	6.79	384	17.43
5	Physics	37	6.44	688	31.23
6	Animal Health and Management	33	5.74	192	8.71
7	Education	31	5.40	0	0
8	Lifelong Learning	27	4.70	0	0
9	Bioinformatics	24	4.18	227	10.30
10	Microbiology	21	3.65	39	1.77

Table 3 shows that Top ten departments. Department of Industrial Chemistry get highest 54 (9.40 %) funding projects and published 666 publications have placed first rank and its followed by Department of Sociology get 51 (8.88%) research projects and published least 0(0%) publications have placed second position. A good number of 37 (6.4%) research projects get Department of Physics with published highest 688 (31.23%) publications have placed fifth rank. It is further found that Department of Microbiology get less number of 21 (3.65%) research projects and published 39 (1.77%) publications have placed last position.

Table 4: Top Ten Faculty Members

S. No	Name of the Faculty and Department	No. of Research Projects	%	WoS Publications	Funding Publications
1	K.R. Murugan (Sociology)	45	7.83	0	0
2	A. Narayanamoorthy (Economics and Rural Development)	28	4.87	7	2
3	N.Arunachalam (Lifelong Learning)	24	4.18	0	0
4	B.Dharmalingam (Fine Arts)	21	3.65	0	0
5	A.Arun (Microbiology)	18	3.13	3	3
6	G. Paruthimal Kalaignan (Industrial Chemistry)	16	2.78	86	19
7	P.Manisankar (Industrial Chemistry)	16	2.78	130	58
8	R.Ramnath (Education)	11	1.91	0	0
9	J Jeyakanthan (Bioinformatics)	11	1.91	47	39
10	B, Vaseeharan (Animal Health and Management)	11	1.91	113	101

Table 4 shows that top ten faculties of Alagappa University. It is found that K.R. Murugan gets more 45 (7.83) research projects have placed first rank and its followed by A.Narayanamoorthy has gets 28 (4.87%) research projects have placed second rank. Good number of 16 (2.78%) research projects has received G. Paruthimal Kalaignan, P. Manisankar have placed sixth position. It is further found that R. Ramnath, J. Jeyakanthan, B. Vaseeharan, gets 11 (1.91%) of research projects have placed last position.

Table 5: Funding wise Research Projects

S. No	Name of the Funding Agencies	No. of Research Projects	%	Rank
1	University Grants Commission	189	32.92	1
2	Alagappa University Research Fund	98	17.07	2
3	Department of Science and Technology	55	9.58	3
4	Department of Biotechnology	24	4.18	4
5	Ministry of Agriculture	12	2.09	8
6	AICTE	12	2.09	8
7	TNSCST	11	1.91	11
8	CSIR	14	2.43	6
9	ICSSR	19	3.31	5
10	DRDA	12	2.09	8
11	SSA	14	2.43	6
12	ICMR	7	1.21	12
13	International Water Management Institute	6	1.04	13
14	National Literacy Mission	6	1.04	13
15	National Commission for Women	2	0.34	24
16	British Council Division	3	0.52	17
17	Public Affair Centre	4	0.69	16
18	International Water Management InstituteTAHDCO	2	0.34	24
19	UNICEF	2	0.34	24
20	District Rural Development Administration	3	0.52	17
21	Indian Council of Historical Research	2	0.34	24
22	National Bank for Agriculture and Rural Development	2	0.34	24
23	ICRISAT	2	0.34	24
24	SRC for Non Formal Education	2	0.34	24
25	SERB	2	0.34	24
26	DRDO	3	0.52	17

S. No	Name of the Funding Agencies	No. of Research Projects	%	Rank
27	State Planning Commission	3	0.52	17
28	FCT	2	0.34	24
29	Himadri Chemicals	2	0.34	24
30	TNCPL	2	0.34	24
31	DRDL	2	0.34	24
32	BHEL	3	0.52	17
33	MoEF	3	0.52	17
34	WAPCOS	2	0.34	24
35	Department of Atomic Energy	2	0.34	24
36	ITC	2	0.34	24
37	TNSC&ST	3	0.52	17
38	NTRO	5	0.87	15
39	Other (68) funding agencies	1	0.17	39

Table 5 shows that getting Funding Agency details of Alagappa University. It is found that University Grants Commission has provide 189 (32.92%) research projects have placed first rank and its followed by Alagappa University Research Fund provide 98 (17.07%) research projects have placed second rank. A good number of 6 (1.04%) research projects sanctioned International Water Management Institute and National Literacy Mission have placed thirteenth rank. It is further found that RUSA, Indo-Mexico, Higher Education Department and other 65 funding agencies has provide less number 1 (0.17%) of research projects have placed twenty ninth position.

Table 6 : Top Five Funding Agencies

S. No	Name of the Funding Agencies	No. of Projects	%	Funding Publications	Rank
1	University Grants Commission	189	32.92	234	1
2	Alagappa University Research Fund	98	17.07	23	2
3	Department of Science and Technology	55	9.58	265	3
4	Department of Biotechnology	24	4.18	270	4
5	ICSSR	19	3.31	0	5
Total		574			

Table 6 shows that top five funding agencies and publications It is found that University Grants Commission has provide 189 (32.92%) research projects with publications have place first position and its followed by Alagappa University Research Fund provides 98 (17.07%) research projects with 23 publications have placed second rank. It is further found that Indian Council of Social Science Research provide less number of 19 (3.31%) research projects with least (0) publications have placed fifth rank.

6. Conclusion

Research contributions are most important in any university or institution to show their strength to the outside world. Hence faculty members of the institution or university to update their research contributions as research papers, projects, awards and honors, patents, etc. in their website on regular basis. This leads to the institution to get more visibility, collaboration and funding by national and international institutions.

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