

Research Collaboration in Indian Universities: A Bibliometric Analysis of Universities in Tamilnadu State.

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This study examines the growth of Publications, Citation ranking, and h-index of Universities in Tamilnadu. Web of Science provides significantly more coverage of University publications and generate the Citations, Self Citations. During 1989-2016 Tamilnadu Universities have contributed 39336 Publications and received 3, 73,843 Citations. 288 papers are cited more than 100 times. The range of Self Citations is 5 Percent to 20 Percentage. An average citation per Article 9.50 was observed among Universities that are engaged in active research. The bibliometric/Scientometric studies are frequently used to assess the research publications and to analyze the growth of contributions and collaborations.

The analysis reviews that “Anna University” has highest publications (9376) stake and secures first rank with highest citations (87426) and h-index (91), it is followed by “University of Madras” with 7962 publications and having citations of 75621 and h-index of 81. It is also found that “Mother Teresa University” at last position with a meager contribution of just 27 publications with h-index of 3 during the study period. Among the second phase universities funded by UGC, Bharathidasan University, Tiruchirappalli at top position with 3471 publications having 36621 citations and h-index of 70. It is also revealed that Bharathidasan University secured second position (6525) publications with a share of self-citations (17.82 %) while “Annamalai University” at top with 10,703 (19.05 %). This study also reveals that Gandhigram Rural University (16.54%) and Bharathidasan University (10.55%) are in first and second position in terms of highest average citation per article respectively. The highest individual citation for a research paper is 671, which belongs to “Anna University”, followed by Bharathiar University and Tamilnadu Agriculture University with 643 and 563 citations respectively for a single paper. It is also found that the collaboration between the conventional Universities is established. There is no collaboration between the professional Universities except “Anna University”. Bharathidasan University has highest collaboration with “Anna University” and “Madurai Kamaraj University”.

This analysis also reveals that Anna University has highest citation of 8841 publications with 2389 research institutions from 63 countries and received research funding from 1533 from national and international agencies. It is followed by Bharathidasan University having collaboration with 1164 research organizations from 55 countries and received funding from 734 agencies. It is also known that all the surveyed Universities are having collaboration with hundreds of research institutes and received research funding except M.G.R Medical University.

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