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# Usage of E-Journals by the Users of Central University of Orissa, Koraput: An Analysis with INFISTATS (Usage Statistics Portal for e-Resource) for the Period 2012-2016

**Bijayananda Pradhan***

Central University of Orissa, Landiguda Campus, Koraput – 764021, Odisha, India; ncsipradhan@gmail.com

## Abstract

Central University of Orissa is getting 8500+ e –journals from e-ShodhSindhu consortia of INFLIBNET. The University was established by the Government of India, MHRD in the year 2009. However, the University is getting e-resources through consortia from the year 2012 onwards. To assess the usage of these e-journals by the users of Central University of Orissa, the author analyzed the statistics using INFISTAT of INFLIBNET. It was found that there are certain resources which are being utilized more by the users, which reflects the popularity of the journals as well as the publisher. The study also shows the trend and statistics of usage by month, by year, by databases, and by journals, etc.

**Keywords:** Central University of Orissa, Consortia, E-Journals, E-ShodhSindhu, Information and Library Network (INFLIBNET), Usage Statistics

## 1. Introduction

The Information and Library Network (INFLIBNET) Centre was established in May 1996 as an independent, autonomous Inter-University Centre (IUC) of the University Grants Commission (UGC). The centre has so many roles to play for the benefit of the University communities. The centre acts as a nodal agency for networking of libraries and information centres in Universities, institutions of higher learning and R&D institutions in India to promote scholarly communication.

Consortia-based subscription to e-resources is a primary responsibility through which researchers of the Universities and Institutions are accessing so many journals through a single window platform. Based on the recommendations of the expert committee on Library consortium constituted to survey the current scenario of government funded library consortia in India, the MHRD formed e-ShodhSindhu which is a consortium for Higher education Electronic Resources by merging three existing consortia initiatives, namely; UGC Infonet Digital Library Consortium, NLIST and INDEST-AICTE consortium. The e-ShodhSindhu provides current as well as archival access to more than 15,000 core and peer-reviewed journals and a number of bibliographic, citation, legal and factual databases in different disciplines from a large number of publishers and aggregators to its member institutions including centrally funded technical institutions, universities and at present, the e-ShodhSindhu is offering access to more than 15000 full text journals from 25 publishers, 5 bibliographic databases, 2 legal database, 4 factual databases and one standard database to 356 institutions.

## 2. Central University of Orissa

The Central University of Orissa, Koraput was established by the Parliament under the Central Universities Act, 2009 (No. 3C of 2009). It is one of the 15 new Central Universities established by the Government of India to increase access to quality higher education for people in educationally less developed districts which have a Graduate Enrolment Ratio of less than the national average of 11%. The University has 14 undergraduate and postgraduate departments. At present, there are more than 700 students and research scholars enrolled in the University.

*Author for correspondence

### 2.1 E-Resources of Central University of Orissa

The following 14 e-resources are presently accessible by CUO through e-ShodhSindhu consortium of INFLIBNET[8].

| Sl. No. | Name of the Resources | Sl. No. | Name of the Resources |
|---|---|---|---|
| 1. | Cambridge University Press | 8. | MathSciNet |
| 2. | Economic & Political Weekly | 9. | Oxford University Press |
| 3. | Emerald | 10. | Project Muse |
| 4. | Institute of Physics | 11. | ScienceDirect (10 Subject Collection) |
| 5. | ISID | 12. | Springer Link |
| 6. | JCCC | 13. | Taylor & Francis |
| 7. | JSTOR | 14. | Wiley-Blackwell |

## 3. Review of Literature

There are a number of usage studies of consortia e-resources.

Nikam and Pramodini (2007)[5] studied the use of e-journals and databases (subscribed through UGC-Infonet) by the academic community of University of Mysore. The study reveals that although users are very much interested to use the e-resources of UGC-Infonet, there is a lack of awareness among the academic community. They suggested that libraries may take initiative to maximise the use of e-resources.

Chand and Arora (2008)[1] in a study on access to scholarly communication in higher education in India and found that there has been a qualitative increase in overall usage, but mentioned that usage of e-resources are mainly dependent upon the speed and bandwidth of the internet connection.

Kaur and Verma (2009)[2] studied the usage of e-resources of Thapar University and found that users are very much interested to use e-resources rather than printed resources and found a manifold increase in the use of e-journals.

Singh, Singh and Chandel (2009)[6] studied the usage of e-resources of various publishers available under UGCINFONET by the academic community of Manipur University during 2007 and 2008. The study reveals that while there is an increase in the usage of the resources of most of the publishers in spite of certain problems of accessibility; resources of some of the publishers were under-utilised. The study suggests that there is a need to find out usage of individual products of publishers.

Mukherjee and Kumar (2010)[4] studied use of UGC-Infonet e-journals by the research scholars of the Banarus Hindu University, Varanashi and found that there is an increasing demand from the research scholars to access the e-resources.

Londhe and Deshpande (2013)[3] made a Usage Study of UGC-INFONET E-resources at University of Pune and found that usage of e-resources is increasing in the University.

## 4. Objectives of the Study

To know the usage of different journals and databases accessed through INFLIBNET's e-ShodhSindhu consortia, this study has the following objectives

- To study the resource wise and year-wise use of e-resources by the users of Central University of Orissa for the period 2012-2016.

## 5. Scope and Limitations

The present study covers usage of full-text journal databases during 2015-16.

## 6. Methodology

For this study, the data were taken from the Infistats (Usage Statistics Portal for e-Resources)[7] of INFLIBNET. The data has been taken for the period 2012-2016. The data were analyzed using excel format.

## 7. DATA ANALYSIS

### 7.1 Resource-wise Statistics for the Period 2012-2016

Table 1 shows the resource wise usage for the year 2016 and it shows that in the year 2016, the usage of JSTOR (6931) is more in comparison to other resources. It shows that users are more frequently using the JSTOR database in the year 2016 followed by ScienceDirect (5811), Taylor & Francis (4075), Springer Link (3755), Emerald Publishing (2372), Wiley Blackwell (1990), Cambridge University Press (1274), Project Muse (1009), Oxford University Press (828), Cambridge University Press (441) and Institute of Physics (238).

**Table 1.** Resource-wise usage statistics for 2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JSTOR | 1077 | 737 | 520 | 1021 | 997 | 289 | 212 | 665 | 570 | 180 | 316 | 347 | 6931 |
| Science-Direct | 859 | 464 | 320 | 574 | 300 | 1258 | 129 | 504 | 375 | 172 | 390 | 466 | 5811 |
| Taylor and Francis | 504 | 361 | 214 | 147 | 65 | 1827 | 114 | 66 | 266 | 238 | 170 | 103 | 4075 |
| Springer Link | 626 | 382 | 342 | 597 | 128 | 511 | 181 | 175 | 245 | 172 | 220 | 176 | 3755 |
| Emerald Publishing | 89 | 15 | 188 | 581 | 530 | 392 | 14 | 90 | 250 | 98 | 65 | 60 | 2372 |
| Wiley-Blackwell | 166 | 350 | 111 | 196 | 43 | 270 | 43 | 179 | 244 | 245 | 76 | 67 | 1990 |
| Cambridge Univ. Press | 248 | 59 | 8 | 157 | 180 | 454 | 60 | 108 | 0 | | | | 1274 |
| Project Muse | 246 | 59 | 24 | 103 | 68 | 156 | | 109 | 112 | 46 | 60 | 26 | 1009 |
| Oxford Univ. Press | 57 | 39 | 18 | 41 | 12 | 193 | 101 | 134 | 80 | 48 | 73 | 32 | 828 |
| Cambridge Univ. Press | | | | | | | | | 70 | 228 | 100 | 43 | 441 |
| Institute of Physics | 47 | 0 | 0 | 21 | 0 | 55 | 1 | 20 | 17 | 10 | 37 | 30 | 238 |

**Table 2.** Resource-wise usage statistics for 2015

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JSTOR | 1103 | 895 | 409 | 562 | 143 | 107 | 699 | 518 | 609 | 145 | 374 | 961 | 6525 |
| Science-Direct | 220 | 190 | 287 | 474 | 57 | 9 | 456 | 966 | 265 | 112 | 419 | 817 | 4272 |
| Springer Link | 347 | 122 | 221 | 165 | 131 | 18 | 804 | 384 | 198 | 136 | 100 | 473 | 3099 |
| Cambridge Univ. Press | 11 | 4 | 8 | 1 | 1 | 0 | 454 | 169 | 136 | 6 | 8 | 1048 | 1846 |
| Emerald Publishing | 76 | 0 | 1 | 31 | 59 | 1 | 240 | 113 | 27 | 1 | 8 | 968 | 1525 |
| Taylor and Francis | 17 | 17 | 28 | 30 | 24 | 4 | 257 | 293 | 47 | 26 | 144 | 493 | 1380 |
| Project Muse | 9 | 4 | 2 | 3 | 3 | 0 | 235 | 152 | 21 | 17 | 9 | 903 | 1358 |
| Wiley-Blackwell | 106 | 68 | 48 | 48 | 28 | 18 | 116 | 98 | 60 | 32 | 60 | 520 | 1202 |
| Institute of Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 0 | 9 | 666 | 760 |
| Oxford Univ. Press | 40 | 21 | 35 | 7 | 8 | 8 | 250 | 92 | 63 | 9 | 6 | 160 | 699 |

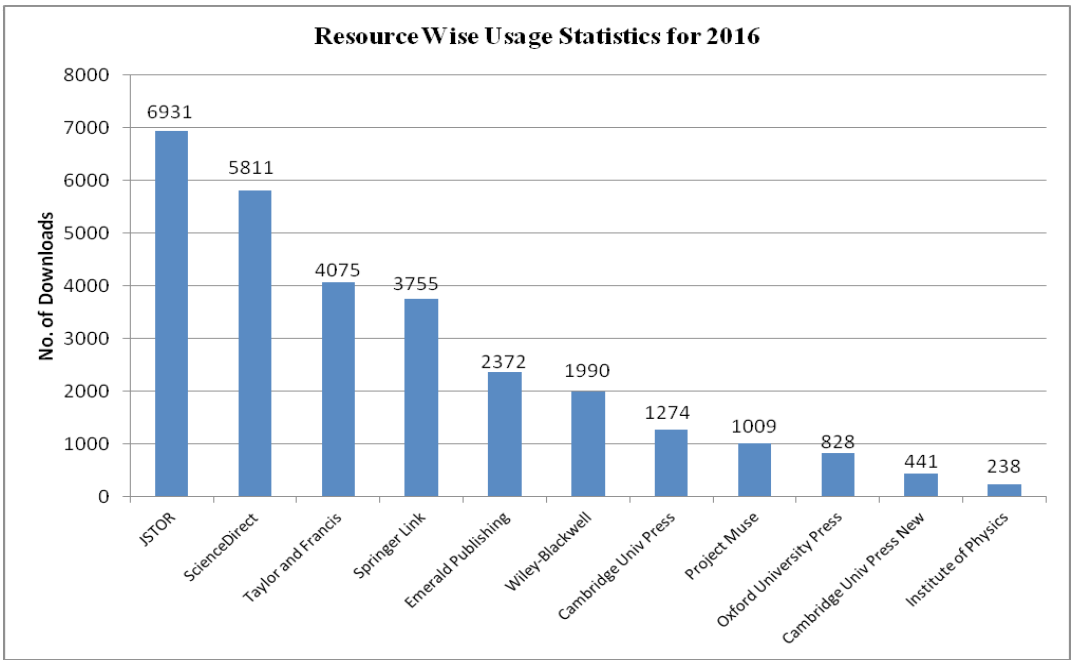


**Figure 1.** Resource-wise usage statistics for 2016.

**Table 3.** Resource-wise usage statistics for 2014

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JSTOR | 928 | 1123 | 782 | 651 | 185 | 26 | 313 | 745 | 867 | 174 | 541 | 299 | 6634 |
| Springer Link | 14 | 18 | 18 | 15 | 9 | 6 | 16 | 103 | 418 | 60 | 139 | 157 | 973 |
| Wiley-Blackwell | 8 | 32 | 14 | 9 | 5 | 2 | 7 | 46 | 217 | 49 | 84 | 73 | 546 |
| Taylor and Francis | 24 | 27 | 11 | 48 | 38 | 6 | 33 | 29 | 38 | 9 | 15 | 42 | 320 |
| Oxford Univ. Press | 2 | 45 | 5 | 3 | 1 | 0 | 0 | 13 | 10 | 21 | 25 | 38 | 163 |
| Emerald | 2 | | 78 | 28 | 3 | 7 | | | | | | | 118 |
| Project Muse | 17 | 4 | 7 | 8 | 16 | 2 | 8 | 18 | 8 | 0 | 2 | 4 | 94 |
| Emerald Publishing | 0 | | | | | | 0 | 1 | 0 | 0 | 1 | 82 | 84 |
| Science-Direct | 1 | 9 | 11 | 19 | 8 | 4 | 4 | | | | | | 56 |
| Cambridge Univ. Press | 2 | 2 | 1 | 5 | 1 | 2 | 3 | 1 | 20 | 7 | 1 | 4 | 49 |
| Institute of Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

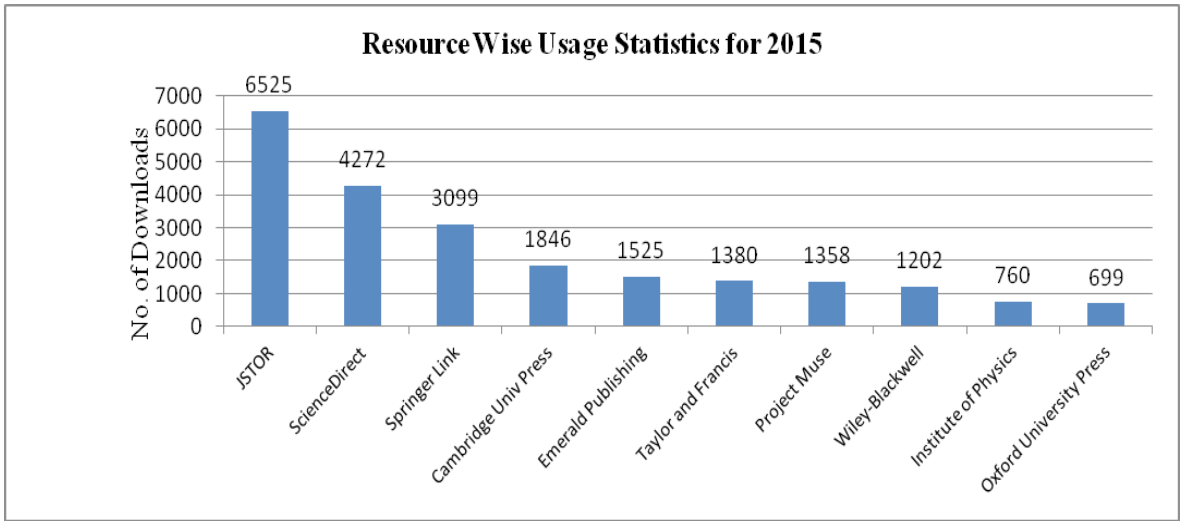


**Figure 2.** Resource-wise usage statistics for 2015.

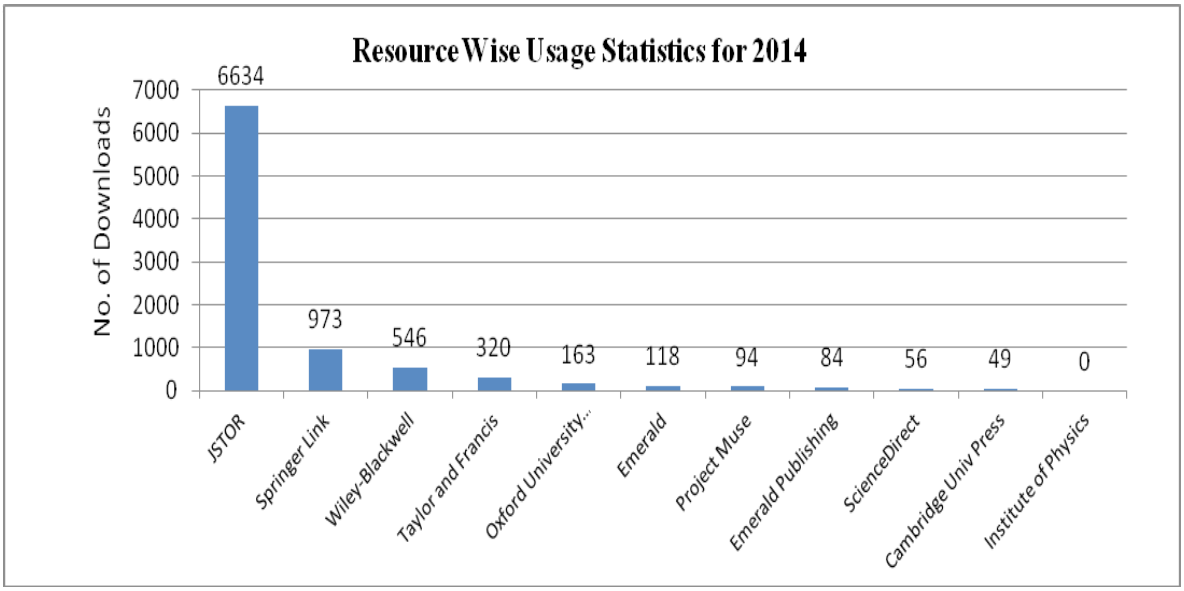


**Figure 3.** Resource-wise usage statistics for 2014.

**Table 4.** Resource-wise usage statistics for 2013

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JSTOR | 173 | 745 | 372 | 287 | 42 | 13 | 46 | 120 | 493 | 291 | 276 | 58 | 2916 |
| Taylor and Francis | 24 | 15 | 41 | 25 | 47 | 16 | 53 | 15 | 7 | 58 | 20 | 23 | 344 |
| Wiley-Blackwell | 16 | 5 | 3 | 27 | 3 | 8 | 14 | 7 | 12 | 15 | 115 | 2 | 227 |
| Springer Link | 4 | 0 | 0 | 26 | 8 | 5 | 22 | 53 | 17 | 14 | 28 | 4 | 181 |
| Project Muse | 0 | 2 | 18 | 39 | 1 | 0 | 6 | 8 | 13 | 3 | 4 | 0 | 94 |
| Oxford Univ. Press | 2 | 2 | 12 | 4 | 0 | 0 | 2 | 2 | 4 | 3 | 9 | 2 | 42 |
| Cambridge Univ. Press | 0 | 0 | 1 | 20 | 1 | 0 | 1 | 0 | 9 | 1 | 0 | 3 | 36 |
| Emerald | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 9 | 4 | 6 | 3 | 1 | 26 |
| Institute of Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

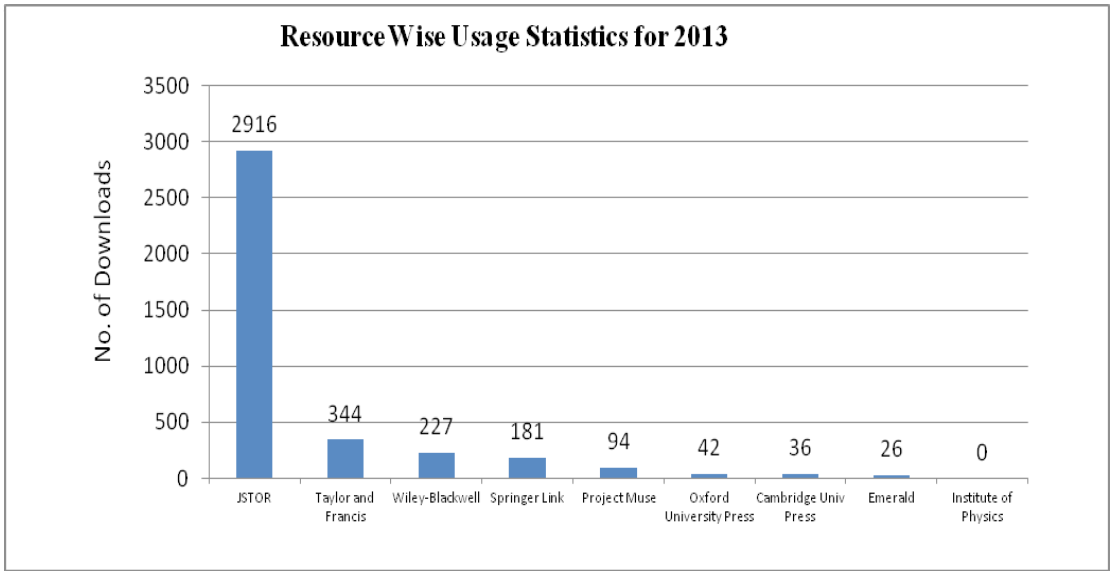


**Figure 4.** Resource-wise usage statistics for 2013.

Table 2 shows the resource wise usage for the year 2015 and it shows that in the year 2015, the usage of JSTOR (6525) is more in comparison to other resources. It shows that users are more frequently using the JSTOR database in the year 2015 followed by ScienceDirect (4272), Springer Link (3099), Cambridge University Press (1846), Emerald Publishing (1525), Taylor & Francis (1380), Project Muse (1358), Wiley Blackwell (1202), Institute of Physics (760) and Oxford University Press (699).

Table 3 shows the resource wise usage for the year 2014 and it shows that in the year 2014, the usage of JSTOR (6634) is more in comparison to other resources. It shows that users are more frequently using the JSTOR database in the year 2014 followed by Springer Link (973), Wiley Blackwell (546), Taylor & Francis (320), Oxford University Press (163), Emerald (118), Project Muse (94), Emerald Publishing (84), ScienceDirect (56), Cambridge University Press (49), and Institute of Physics having no downloads.

Table 4 shows the resource wise usage for the year 2013 and it shows that in the year 2013, the usage of JSTOR (2916) is more in comparison to other resources. It shows that users are more frequently using the JSTOR database in the year 2013 followed by Taylor & Francis (344), Wiley Blackwell (277), Springer Link (181), Project Muse (94), Oxford University Press (42), Cambridge University Press (36), Emerald (26), and Institute of Physics having no downloads at all.

Table 5 shows the resource wise usage for the year 2012 and it shows that in the year 2012, only two resources are being used for downloads; JSTOR (1784) and Taylor & Francis (408). This is because in the year 2012, the service was initially started and the users are also not much aware of the e-resources. The research programmers were also not started during that year.

## 8. Trend in the Usage of Different E-Resources

The following statistics shows the trend report of the different e-resources during the period of study. From the

**Table 5.** Resource-wise usage statistics for 2012

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JSTOR | 0 | 0 | 298 | 95 | 84 | 2 | 233 | 127 | 214 | 361 | 281 | 89 | 1784 |
| Taylor and Francis | | | | | | 15 | 144 | 10 | 51 | 59 | 122 | 7 | 408 |
| Project Muse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

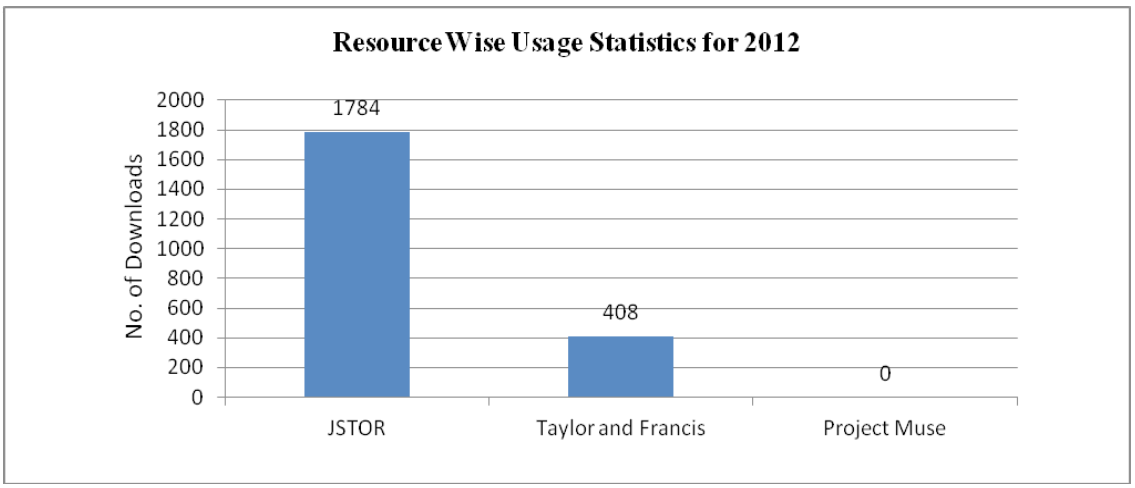


**Figure 5.** Resource-wise usage statistics for 2012.

**Table 6.** Downloads of e-resources of Cambridge University Press

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 248 | 59 | 8 | 157 | 180 | 454 | 60 | 108 | 0 | | | | 1274 |
| 2015 | 11 | 4 | 8 | 1 | 1 | 0 | 454 | 169 | 136 | 6 | 8 | 1048 | 1846 |
| 2014 | 2 | 2 | 1 | 5 | 1 | 2 | 3 | 1 | 20 | 7 | 1 | 4 | 49 |
| 2013 | 0 | 0 | 1 | 20 | 1 | 0 | 1 | 0 | 9 | 1 | 0 | 3 | 36 |

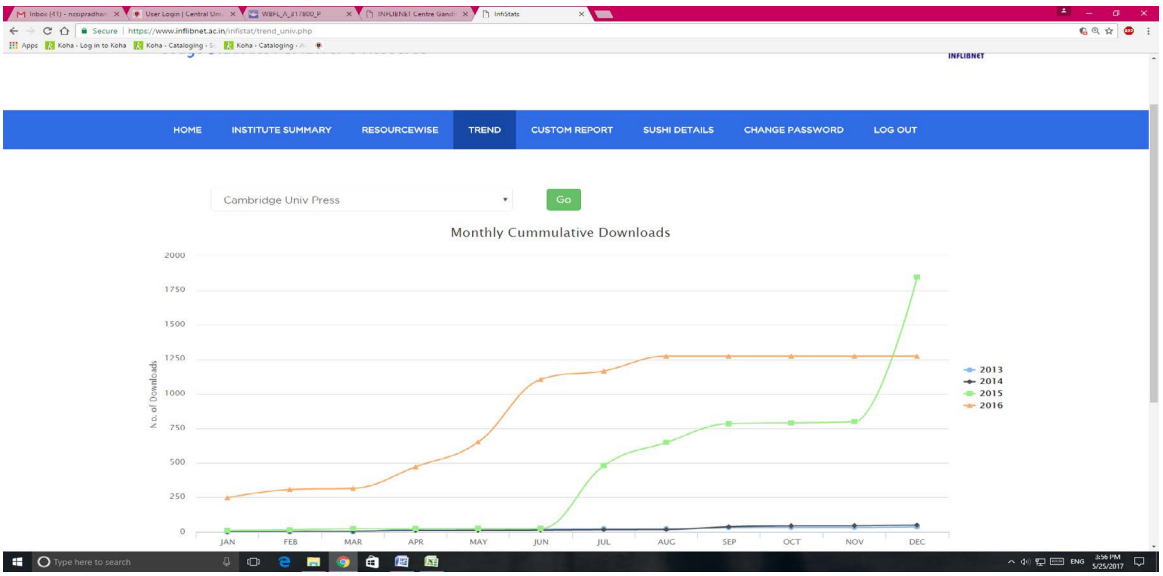


**Figure 6.** Downloads of Cambridge University Press e-resources for the period 2013-2016.

**Table 7.** Trend report of Emerald publishing for the period 2013-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 89 | 15 | 188 | 581 | 530 | 392 | 14 | 90 | 250 | 98 | 65 | 60 | 2372 |
| 2015 | 76 | 0 | 1 | 31 | 59 | 1 | 240 | 113 | 27 | 1 | 8 | 968 | 1525 |
| 2014 | 0 | | | | | | 0 | 1 | 0 | 0 | 1 | 82 | 84 |

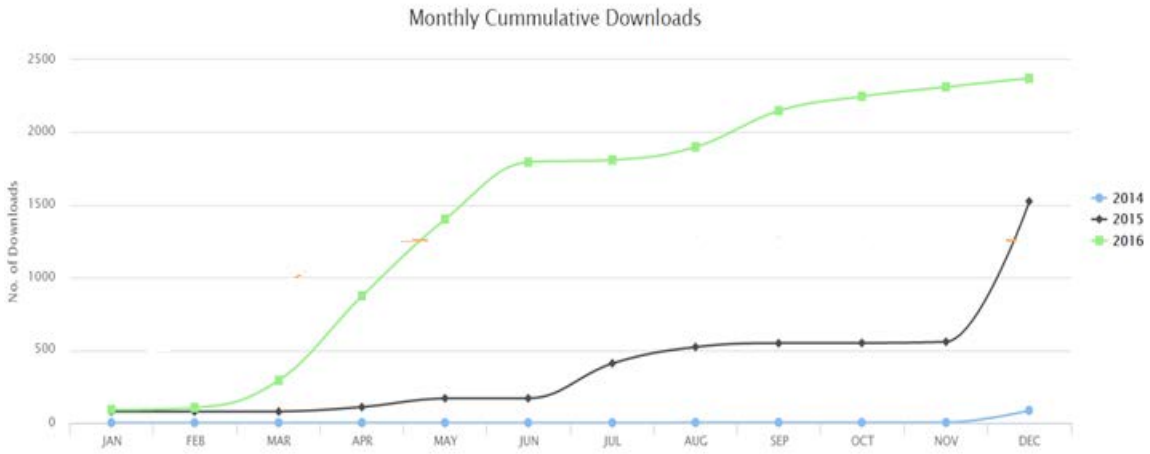


**Figure 7.** Trend report of Emerald publishing for the period 2014-2016.

**Table 8.** Trend report of institute of Physics for the period 2013-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 47 | 0 | 0 | 21 | 0 | 55 | 1 | 20 | 17 | 10 | 37 | 30 | 238 |
| 2015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85 | 0 | 9 | 666 | 760 |
| 2014 | 2 | 45 | 5 | 3 | 1 | 0 | 0 | 13 | 10 | 21 | 25 | 38 | 163 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

trend report of usage statistics, we can able to know what are the most useful and downloadable databases which are being used by the users of CUO. Accordingly we can add or delete the database as per the need of the users.

## 9. Cambridge University Press

Table 6 shows the number of downlaods during the period 2013 to 2016 of Cambrige University Press, which clearly shows that in the year 2015 the downloads are more and there is no indication that the downloads are increasing over the years.

## 10. Emerald Publishing

Table 7 shows the number of downlaods during the period 2014 to 2016 of Emerald Publishing, which clearly shows the increasing trend of the emereald resources by the users of Central University of Orissa. The data for the year 2013 are not available.

## 11. Institute of Physics

Table 8 shows the number of downlaods during the period 2013 to 2016 of Institute of Physics, which shows that during the year 2015 there is maximum number of downloads

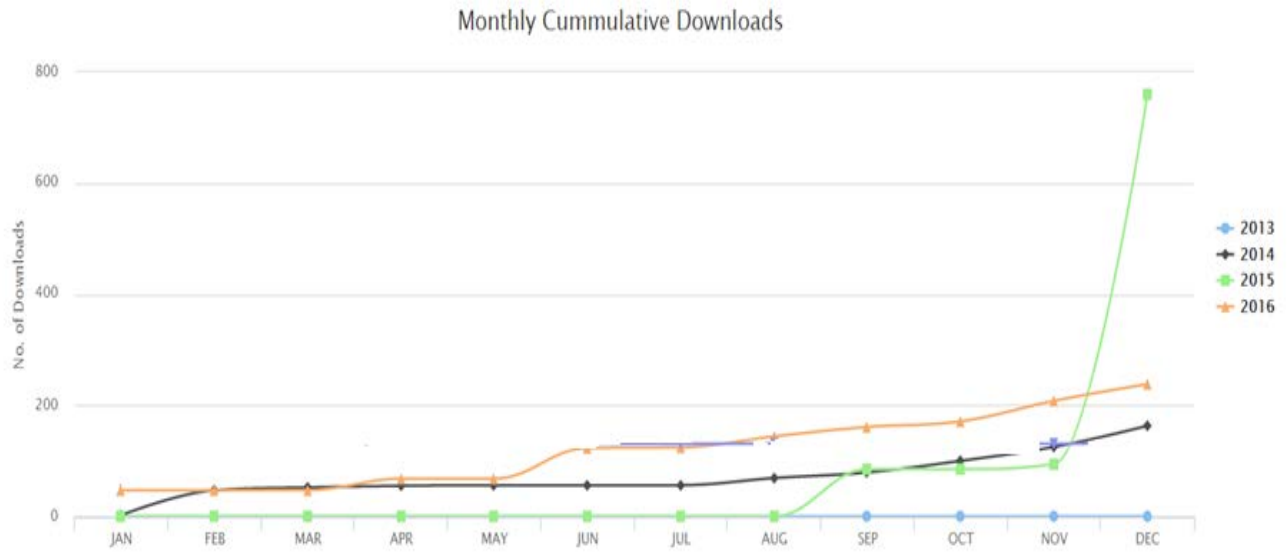


**Figure 8.** Trend report of institute of Physics for the period 2013-2016.

**Table 9.** Trend report of JSTOR for the period 2012-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 1077 | 737 | 520 | 1021 | 997 | 289 | 212 | 665 | 570 | 180 | 316 | 347 | 6931 |
| 2015 | 1103 | 895 | 409 | 562 | 143 | 107 | 699 | 518 | 609 | 145 | 374 | 961 | 6525 |
| 2014 | 928 | 1123 | 782 | 651 | 185 | 26 | 313 | 745 | 867 | 174 | 541 | 299 | 6634 |
| 2013 | 173 | 745 | 372 | 287 | 42 | 13 | 46 | 120 | 493 | 291 | 276 | 58 | 2916 |
| 2012 | 0 | 0 | 298 | 95 | 84 | 2 | 233 | 127 | 214 | 361 | 281 | 89 | 1784 |

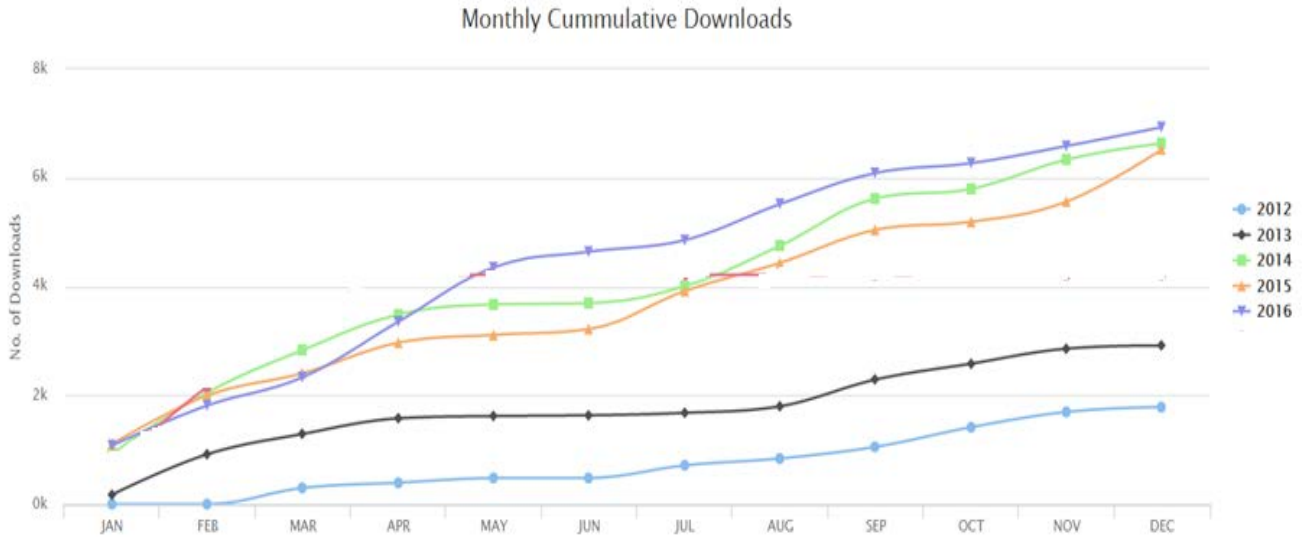


**Figure 9.** Trend report of JSTOR for the period 2012-2016.

followed by 2016 and 2014. There is no sign of increasing number of downloads over the years under study.

## 12. JSTOR

Table 9 shows the number of downlaods during the period 2012 to 2016 of JSTOR, which shows that there is an increasing trend of usage over the years, however in the year 2015 the numbers of downloads are slightly lower than 2016.

## 13. Springer

Table 10 shows the number of downlaods during the period 2013 to 2016 of Springer, which shows that there is an increasing trend of usage over the years. The numbers of downloads are increasing in each year. The datas for the year 2012 are not found from the database.

## 14. PojectMuse

Table 11 shows the number of downlaods during the period 2012 to 2016 of ProjectMuse, which shows that there is no such increasing trend of usage over the years. The datas for the year 2012 are not found from the database.

**Table 10.** Trend report of springer for the period 2013-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 626 | 382 | 342 | 597 | 128 | 511 | 181 | 175 | 245 | 172 | 220 | 176 | 3755 |
| 2015 | 347 | 122 | 221 | 165 | 131 | 18 | 804 | 384 | 198 | 136 | 100 | 473 | 3099 |
| 2014 | 14 | 18 | 18 | 15 | 9 | 6 | 16 | 103 | 418 | 60 | 139 | 157 | 973 |
| 2013 | 4 | 0 | 0 | 26 | 8 | 5 | 22 | 53 | 17 | 14 | 28 | 4 | 181 |

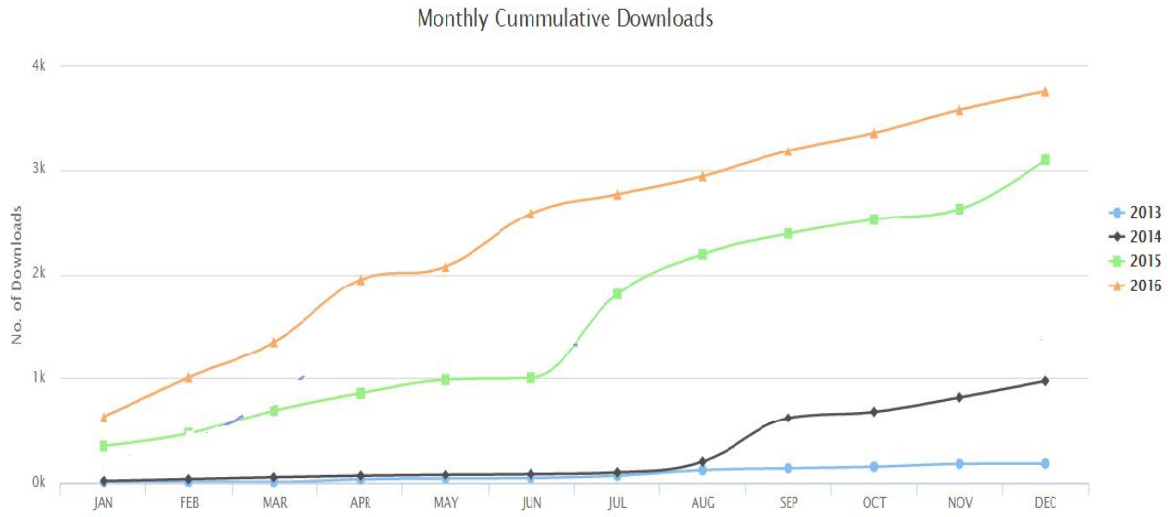


**Figure 10.** Trend report of springer for the period 2013-2016.

**Table 11.** Trend report of ProjectMuse for the period 2012-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 246 | 59 | 24 | 103 | 68 | 156 | | 109 | 112 | 46 | 60 | 26 | 1009 |
| 2015 | 9 | 4 | 2 | 3 | 3 | 0 | 235 | 152 | 21 | 17 | 9 | 903 | 1358 |
| 2014 | 17 | 4 | 7 | 8 | 16 | 2 | 8 | 18 | 8 | 0 | 2 | 4 | 94 |
| 2013 | 0 | 2 | 18 | 39 | 1 | 0 | 6 | 8 | 13 | 3 | 4 | 0 | 94 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

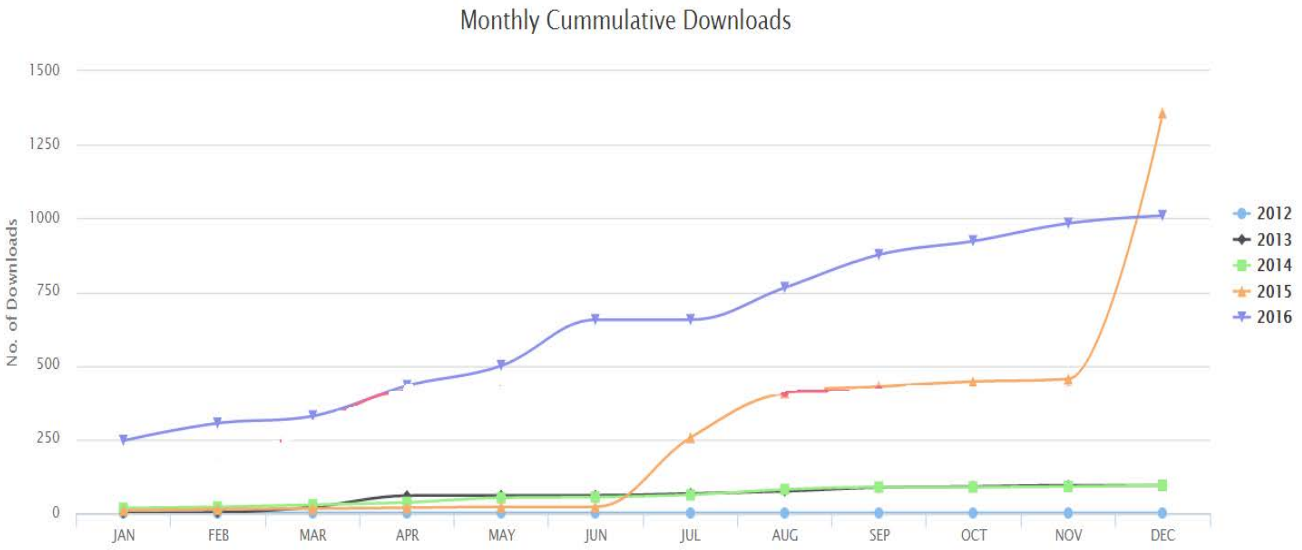


**Figure 11.** Trend report of ProjectMuse for the period 2012-2016.

**Table 12.** Trend report of Taylor & Francis for the period 2012-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 504 | 361 | 214 | 147 | 65 | 1827 | 114 | 66 | 266 | 238 | 170 | 103 | 4075 |
| 2015 | 17 | 17 | 28 | 30 | 24 | 4 | 257 | 293 | 47 | 26 | 144 | 493 | 1380 |
| 2014 | 24 | 27 | 11 | 48 | 38 | 6 | 33 | 29 | 38 | 9 | 15 | 42 | 320 |
| 2013 | 24 | 15 | 41 | 25 | 47 | 16 | 53 | 15 | 7 | 58 | 20 | 23 | 344 |
| 2012 | | | | | | 15 | 144 | 10 | 51 | 59 | 122 | 7 | 408 |

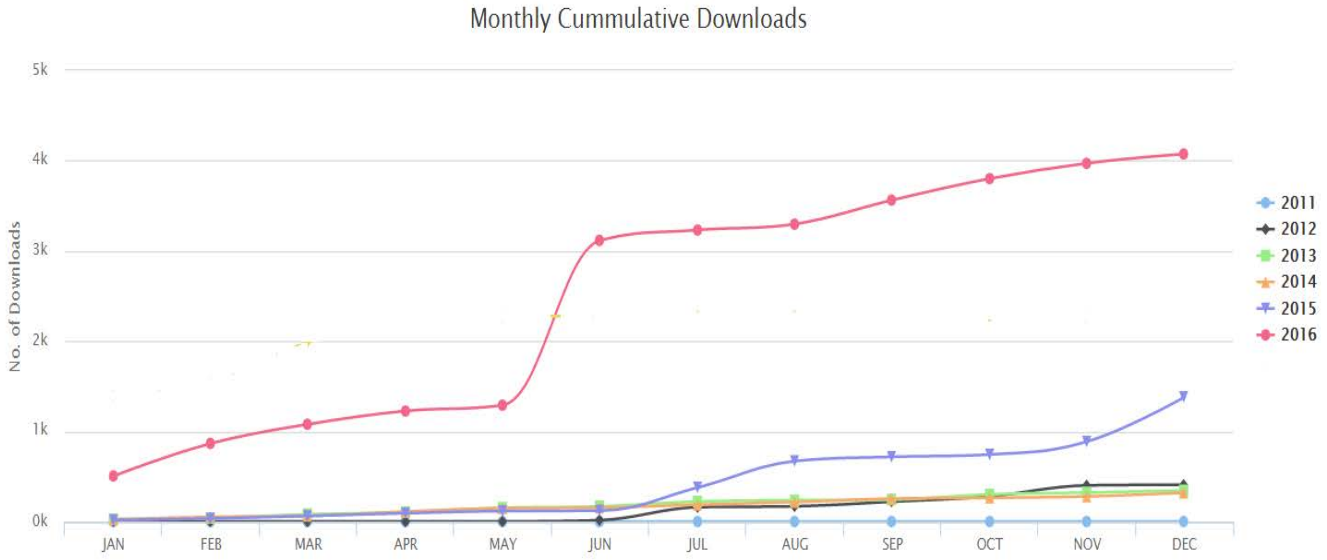


**Figure 12.** Trend report of Taylor & Francis for the period 2012-2016.

## 15. Taylor & Francis

Table 12 shows the number of downlaods during the period 2012 to 2016 of Taylor & Francis, which shows that there is an increasing trend of usage over the years barring the year 2013 & 2014 where there is a declining trend for these years.

## 16. Wiley-Blackwell

Table 13 shows the number of downlaods during the period 2013 to 2016 of Wiley-Blackwell, which shows that there is an increasing trend of usage over the years. The datas for the year 2012 is not found from the database.

## 17. ScienceDirect

Table 14 shows the number of downlaods during the period 2014 to 2016 of ScienceDirect, which shows that there is an increasing trend of usage over the years. As these resource has been subscribed from the year 2014, the data has been provided from the year 2014 onwards.

## 18. Oxford University Press

Table 15 shows the number of downlaods during the period 2013 to 2016 of Oxford University Press, which shows that there is an increasing trend of usage over the years. The datas for the year 2012 is not found from the database.

**Table 13.** Trend report of Wiley-Blackwell for the period 2013-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 166 | 350 | 111 | 196 | 43 | 270 | 43 | 179 | 244 | 245 | 76 | 67 | 1990 |
| 2015 | 106 | 68 | 48 | 48 | 28 | 18 | 116 | 98 | 60 | 32 | 60 | 520 | 1202 |
| 2014 | 8 | 32 | 14 | 9 | 5 | 2 | 7 | 46 | 217 | 49 | 84 | 73 | 546 |
| 2013 | 16 | 5 | 3 | 27 | 3 | 8 | 14 | 7 | 12 | 15 | 115 | 2 | 227 |

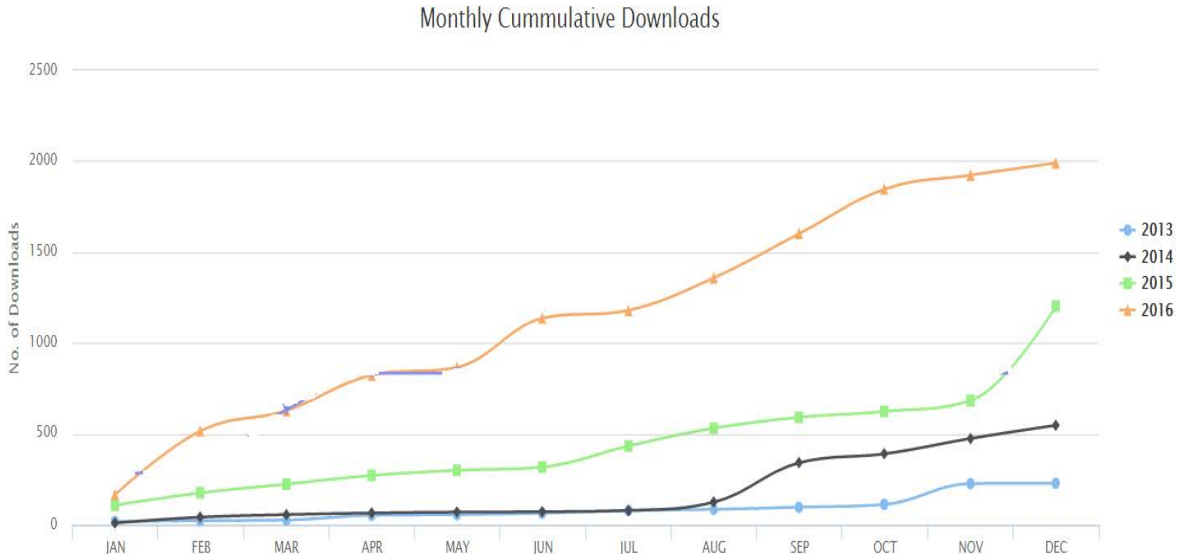


**Figure 13.** Trend Report of Wiley-Blackwell for the Period 2013-2016.

**Table 14.** Trend report of ScienceDirect for the period 2014-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 859 | 464 | 320 | 574 | 300 | 1258 | 129 | 504 | 375 | 172 | 390 | 466 | 5811 |
| 2015 | 220 | 190 | 287 | 474 | 57 | 9 | 456 | 966 | 265 | 112 | 419 | 817 | 4272 |
| 2014 | 1 | 9 | 11 | 19 | 8 | 4 | 4 | | | | | | 56 |

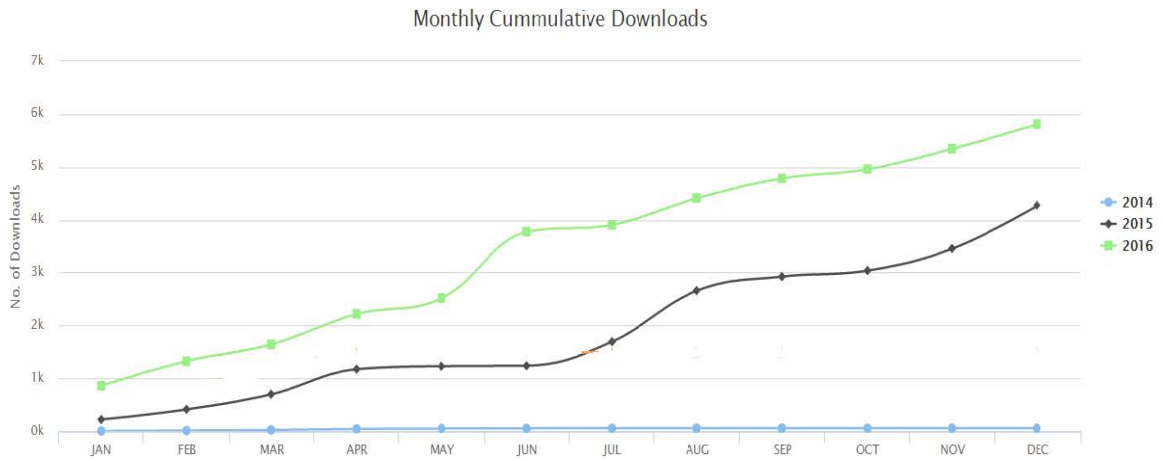


**Figure 14.** Trend report of ScienceDirect for the period 2014-2016.

**Table 15.** Trend report of Oxford University Press for the period 2013-2016

| Resource | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016 | 57 | 39 | 18 | 41 | 12 | 193 | 101 | 134 | 80 | 48 | 73 | 32 | 828 |
| 2015 | 40 | 21 | 35 | 7 | 8 | 8 | 250 | 92 | 63 | 9 | 6 | 160 | 699 |
| 2014 | 2 | 45 | 5 | 3 | 1 | 0 | 0 | 13 | 10 | 21 | 25 | 38 | 163 |
| 2013 | 2 | 2 | 12 | 4 | 0 | 0 | 2 | 2 | 4 | 3 | 9 | 2 | 42 |

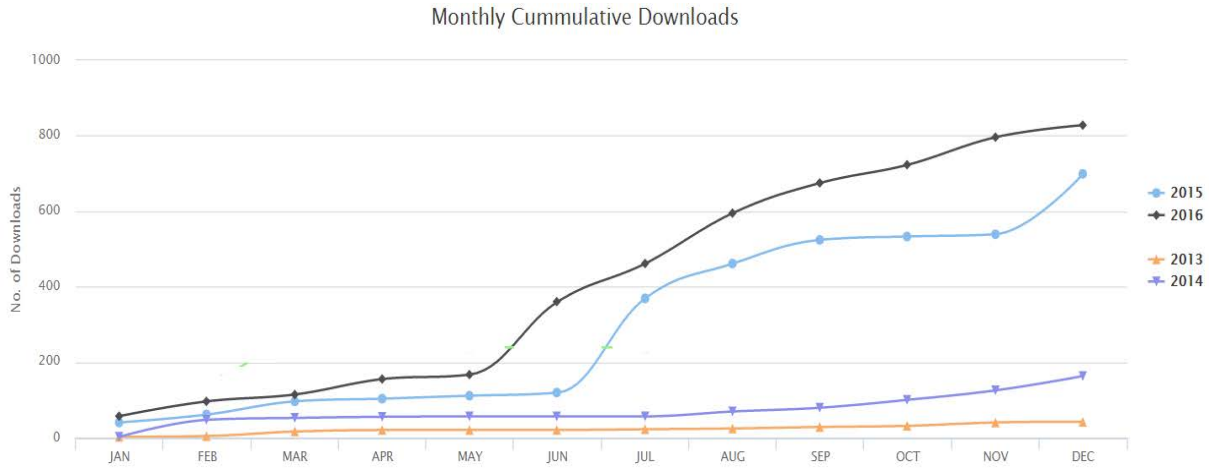


**Figure 15.** Trend report of Oxford University Press for the period 2013-2016.

## 19. Findings and Conclusion

From the above study, the following conclusions are:

- Since the Central University of Orissa is a newly established University, it became a member of the e-resources consortium only in the year 2012. In the initial years, no research programmes were introduced, hence in the year 2012 and 2013, the usage was very low as compared to other years. The low usage of e-resources among the users in the initial years may also due to lack of awareness among the users.
- JSTOR (24790) is the most downloaded e-resource followed by ScienceDirect (10139), Springer (8008), and Taylor & Francis (6527). These are the most used e-resources among all the subscribed e-resources. The usage rate has increased over the years.
- The e-resources are accessible only in the campus and during office hours. This is one disadvantage for our users to access the resources. To overcome this problem University has taken a step to provide

24*7 accesses to e-resources.

## 20. References


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