USER'S PERCEPTION TOWARDS THE SERVICES IN ENGINEERING COLLEGE LIBRARIES IN TELANGANA – A CASE STUDY ON VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE, DESHMUKHI, TELANGANA

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Abstract
Statistical Analysis is very important in involving growth of knowledge bank. In a Library, it is very important to check the knowledge bank in any library or in any branch of knowledge. Finding and collecting information and analyzing its present range of practical problems need to be solved. A Systematic afford to gain new knowledge is important to analyze the existing system to present paper analysis to various data available in Vignan Institute of Technology & Science in span of years starting from 2005 to 2020. This Paper also analyzes the year-wise and department-wise volumes increased and also all other resources that are available in the Library.
Key Words: analysis, Digital, knowledge, library, practical, resources, science, technology
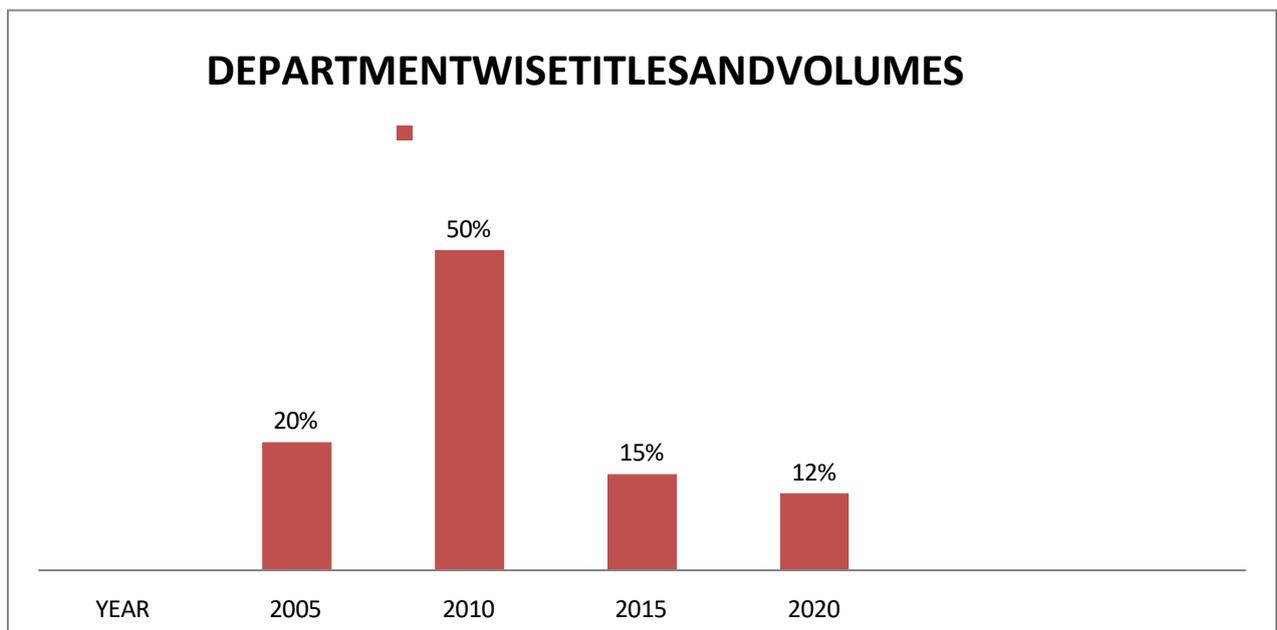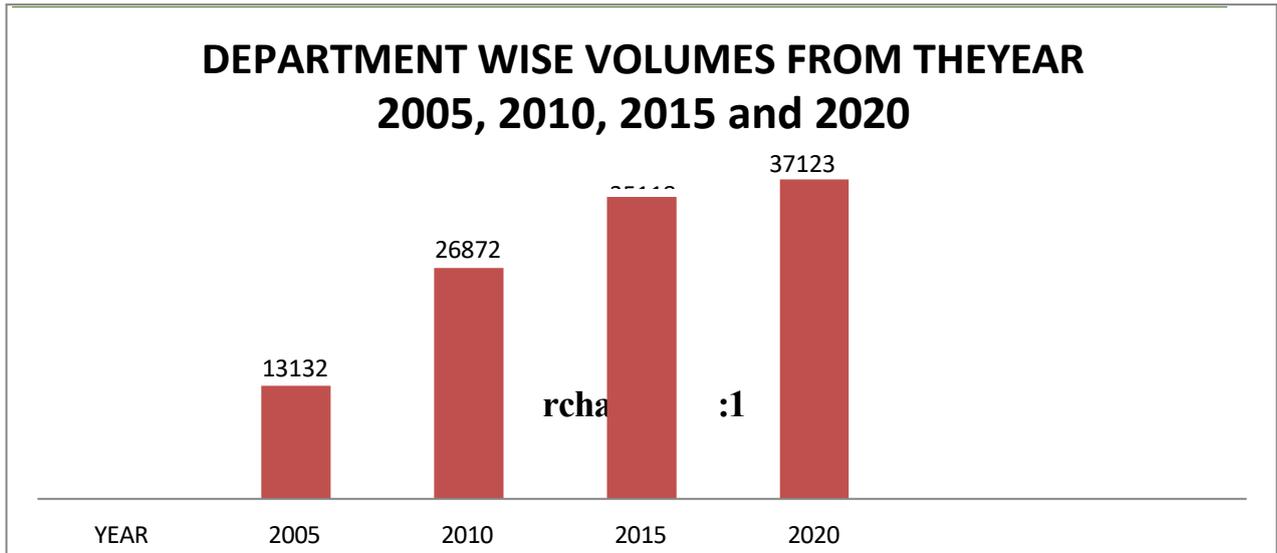
INTRODUCTION

Vignan Institute of Technology & Science established in the year 1999 in the approved by Govt of. India by AICTE and Government of Andhra Pradesh later Government of Telangana is running successfully like B.Tech and M.Tech Courses with the following branches EEE , MECH , ECE , CSE , EIE , CIVIL, IT , AIDS , AI & ML , Data Science. The following facilities are available Barcode facility, Digital Library Lending Section, Reference Section.

The institutes of are produced about 20batches of students an effort is made to analyze to growth of knowledge bank in the form of Books and Journals in the Central Library. The Library is situated in the sparkling 1600 sft presently comparing of 49396 volumes with titles and subscribing the print journals of 126andalso journals subscribed from IEEE, DELNET(Developing Library Network), IE India(Institution of Engineers India) which about 22000 e- journals the present study. The present periodical growth of the Books and Journals bin the Library in Vignan Institute of Technology & Science institute.
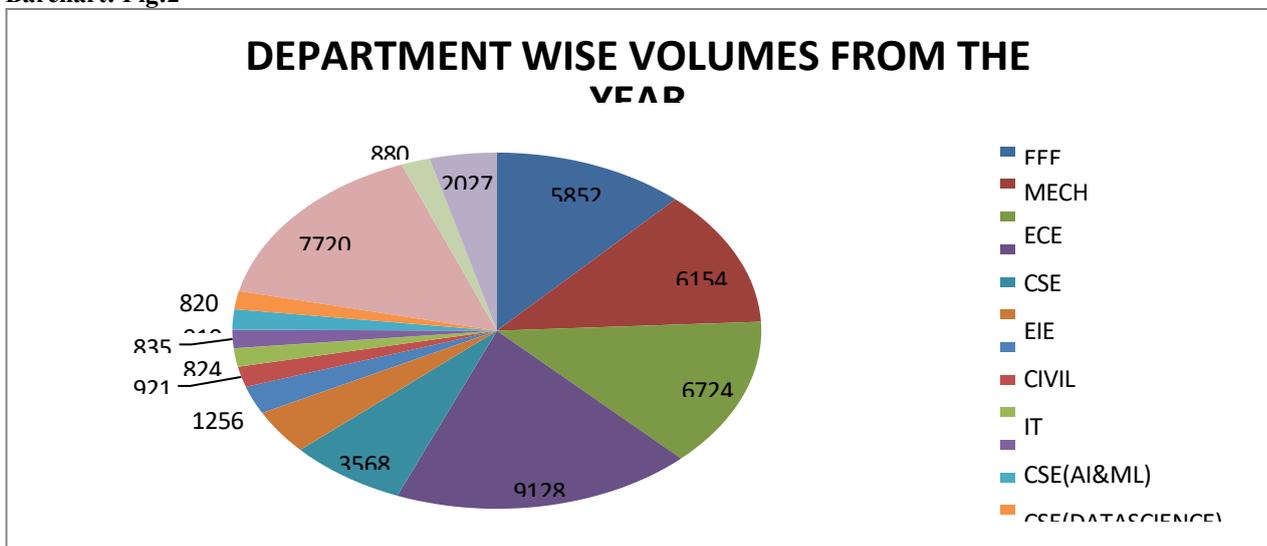
Methodology: The present study elected statistical development of various banks available. Vignan Institute of Technology & Science starting frominceptiontill2020 and made a analysis anstastical basis. The data is collected year wise and based on the library data as tastical analysis is done through pie charts and barcharts. It gives a clear analysis of growth of data bank in the institute
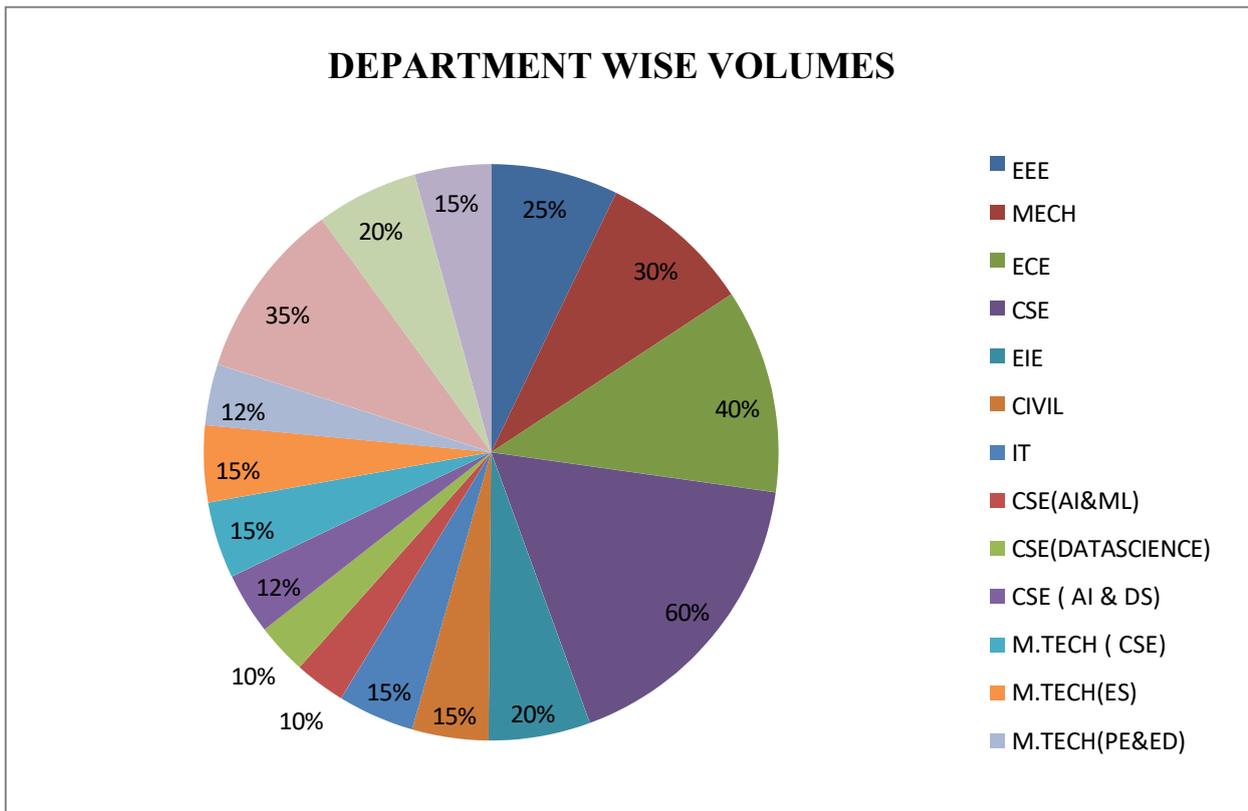
Graphs and Barcharts:
1. Year wise volumes collected i.e total available irrespective of department &growth year wise
   volumes is an analyzed through the analysis of department wise volumes is done.
1. Department-wise volumes present available is also analyzed statically.
2.   E-Journals usage year wise in a span of 2005 to 2020 analyzed.

DEPARTMENT WISE VOLUMES FROM THEYEAR 2005, 2010, 2015 and 2020

rcha   :1

YEAR	2005	2010	2015	2020

13132, 26872, 37123

DEPARTMENTWISETITLESANDVOLUMES

50%

20%   15%   12%

YEAR	2005	2010	2015	2020

Barchart: Fig:2

DEPARTMENT WISE VOLUMES FROM THE YEAR

880
2027
7720
820
835
824
921
1256
3568
9128
6724
6154
5852

- FFF
- MECH
- ECE
- CSE
- EIE
- CIVIL
- IT
- CSE(AI&ML)
- CSE(DATASCIENCE)

Pie chart: Fig: 3

DEPARTMENT WISE VOLUMES

Pie Chart: Fig:4

Chi-square chart:

DF	Oi	E	Oi-Ei	)(OI-Ei)2	(OI-E\E)2
0	1200	2320	-1120	12,54,400	40.689
1	2306	2320	-14	196	0.08
2	1960	2320	-360	1,29,600	55.86
3	2100	2320	-220	48,400	20.86
4	2150	2320	-170	28,900	12.45
5	2450	2320	130	16,900	7.28
6	2105	2320	-215	46,225	19.92
7	2800	2320	480	2,30,400	99.318
8	2610	2320	290	84,100	36.29
9	1900	2320	-420	1,76,400	76.03
10	1908	2320	-412	1,69,744	73.19
11	2010	2320	-310	96,100	41.453
12	2423	2320	103	10,609	4.572
13	2601	2320	281	78,961	34.03
14	3400	2320	1080	11,66,400	502.77
15	3200	2320	880	7,74,400	333.793

Fig:5

Ei £2 Calculate= 1358.585 given level of significance (α)=13% ⟹ degree of freedom= 0.13

Results:

1. Year wise volumes analyze a structural analysis is made about year wise volumes and its growth during the present starting from2005 to 2020 taking for every 5 years interval.

2. The following figure present year wise increase of volumes in the library & Information Science department.

3. It is evident that there is a growth of 20% during the years and average five years there is a 10% of increasing volumes every 5 years.

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Table one shows increase of volumes within interval of 5year starting from 2005 to 2020
Table:

S. No	Year	Titles	Volumes
1	2005	110	1200
2	2006	140	2306
3	2007	135	1960
4	2008	310	2100
5	2009	321	2150
6	2010	359	2450
7	2011	190	2105
8	2012	350	2800
9	2013	496	2610
10	2014	290	1900
11	2015	296	1908
12	2016	355	2010
13	2017	420	2423
14	2018	410	2601
15	2019	610	3400
16	2020	542	3200

Department-wise volumes available in the department Library.

Through PIE Chart:

An effort to firmed to consolidate of the analyze the usage of e-journals during the period 2010, 2015 and 2020
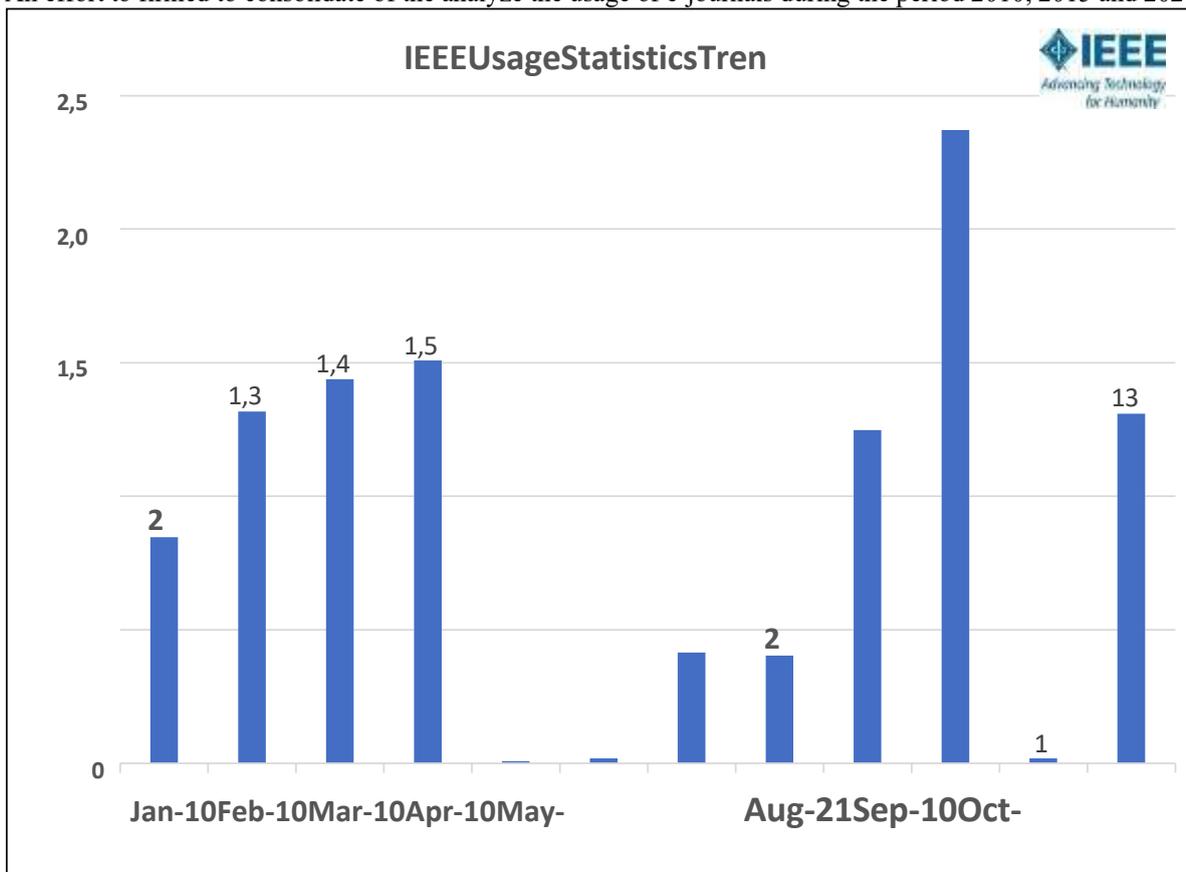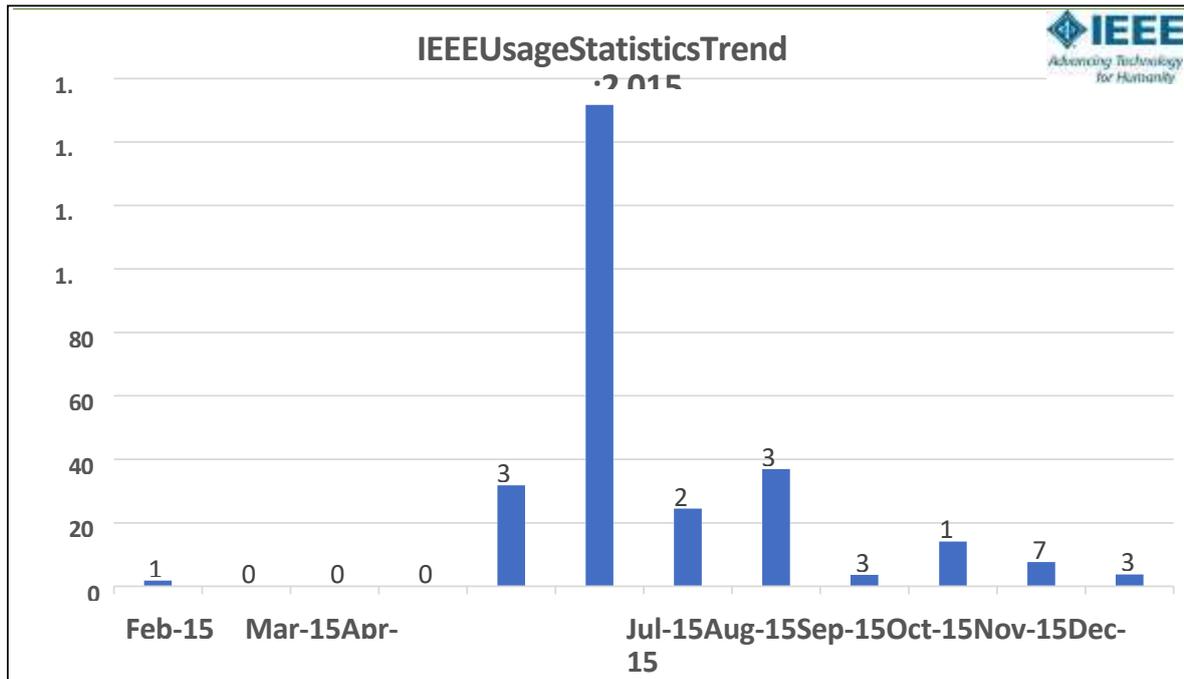

Fig: 6

IEEEUsageStatisticsTrend

Figures: 6 and 7 represents users of e-journals in the year 2010, 2015, 2020. Analysis is made about procurement of year wise print journals during the period 2010 to 2020 within the interval of 5 years Analysis:

From the figure1, it was clear that during the period 2005 to 2020 there is growth of 10% to 15% volumes.

Every five years block period and there is a 20% to 30% growth from 2005 to 2020 and from the figures 2to 5it is evident that maximum of books and procurement in the departments having higher intake to suit the requirements of the students.

The e-journals also enormously increased evident from figures 2005-6, 2010-7, 2015-8, 2020-9.

Library usage users staff & students the fig.9,10,11.

CONCLUSION

The Statistical analysis represents there is a growth in the following

1. There is 20to 30% increase of the volumes available in the library to department-wise charts represents there is enormous growth of the volumes of the department especially in the CSE , ECE &MECH.

2. The E-Journals usage enormously increased in 2010 to 2020.

3. The users the percentage in increased by more than 30% students use of online journals increase enormously.

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