

Chapter 5

DATA ANALYSIS AND INTERPRETATION

5.0 INTRODUCTION

In this study data analysis is based on the survey using questionnaire, observation and interview. The analysis covers the areas like library's organizational structure, collection and services, collection maintenance, development of ICT infrastructure, status of library automation; purpose, frequency and importance of using the library collection and satisfaction level of users etc. Ten university libraries and two additional campuses of Assam Don Bosco University were the area of the study. That makes twelve university libraries in total and six hundred library users as respondent.

The university librarians of all the selected universities responded very positively and the library staffs were cooperative. It was a bit difficult to collect data from the users, but continuously persuading the users made them to give their responses. The study used some short form like AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU means Assam University, Tezpur University, Gauhati University, Dibrugarh University, Assam Agricultural University, Bodoland University, Krishna Kanta Handiqui State Open University, Assam Don Bosco University Azara campus, Assam Don Bosco University Sonapur campus, Assam Don Bosco University Kharghuli campus, Assam Down Town University and Kaziranga University respectively for the convenience.

5.1 ANALYSIS FROM LIBRARIANS DATA

5.1.1 General information

Table 1 General information about libraries up to 2018												
University	AU	TU	GU	DU	AAU	BU	KKHS OU	ADBU AZ	ADBUS O	ADBU KH	ADTU	KU
Collection	1284 49	8600 4	2718 61	2312 26	17500 0	1600 0	18113	15917	4817	4082	20461	10745
Age of Library	24	24	70	51	49	9	10	9	9	8	8	6
Year of Establishment	1994	1994	1948	1967	1969	2009	2008	2009	2009	2010	2010	2012
Name of the librarian	Dr. Arun Kumar Sarma	Dr. Mukesh Saikia	Mr. W. S. D. Nath	Dr. Utpal Das	Dr. P. Talukdar	Mr. Khagen Kalita	Dr. Gautam Kumar Sarma	Dr. Anupam Chandra	Mr. Chanlangki Bareh	Mrs. Gayatri Hazarika	Mr. Sur Chandra Singha	Dr. Tonmay Sabhapandit
Librarians gender	Male	Male	Male	Male	Male	Male	Male	Male	Male	Female	Male	Male
Librarian Working in position	less than 5	5 to 10	5 to 10	5 to 10	5 to 10	5 to 10	5 to 10	less than 5	less than 5	less than 5	less than 5	5 to 10

Table number 1 shows the general information about various aspect of library where it is found that, out of 12 university librarians 11 numbers (91.66%) are male and one (8.33%) female librarian who is working in Assam Don Bosco University Kharghuli. GU is the oldest one having highest number of books is 271861 and KU is the newest among all which is having 10745 document collections. Librarians working in current position less than five years are 41.66% and five to ten years are 58.33%. Collection is highest in GU, followed by DU and AAU as second and third respectively.

5.1.2 Library Timings

5.1.2.1 Number of working days in a year and opening hours

University	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Working days	300	350	250	365	335	240	265	313	313	285	280	220
Opening hours	9:30 am-8:30 pm	9:00 am-12:00 midnight	10 am-8:00 pm	9:30 am-9:00 pm	8 am-8 pm	10 am-4:30 pm	10 am-5:00 pm	9 am-5:00 pm	9 am-5:00 pm	9 am-7:00 pm	9 am-5:00 pm	-

(-) denotes Not Applicable.

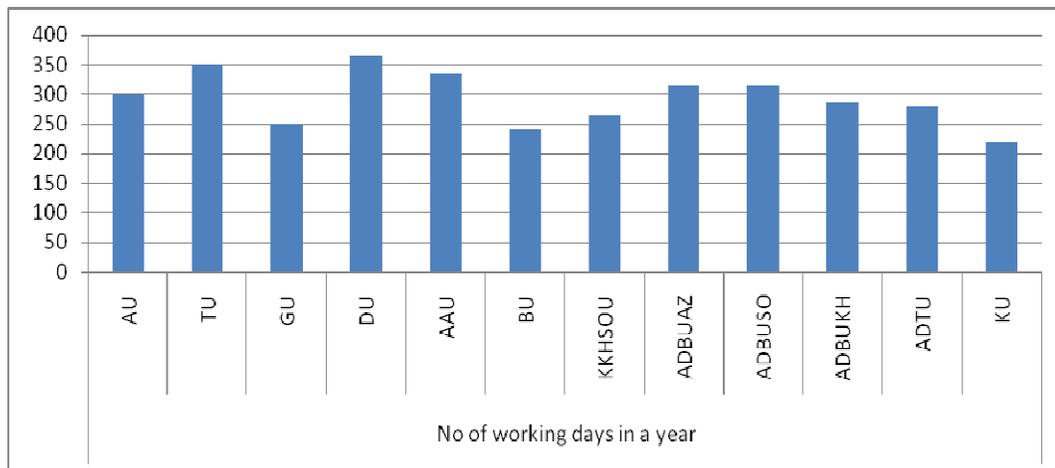


Figure 1 Number of working days in a year

Table number 2 and figure number 1 shows number of working days in a year where highest working days having with Dibrugarh University opened each day in a year followed by TU 350 days as second and lowest with Kaziranga University 220 days in a year.

AU opens 9:30 am to 8:30 pm, TU 9:00 am to 12:00 midnight, GU 10 am to 8:00 pm, DU 9:30 am to 9:00 pm, AAU 8 am to 8 pm, BU 10 am to 4:30 pm,

KKHSOU 10 am to 5:00 pm, ADBUAZ 9 am to 5:00 pm, ADBUSO 9 am to 5:00 pm, ADBUKH 9 am to 7:00 pm, ADTU 9 am to 5:00 pm as library opening hours respectively.

5.1.2.2 Libraries opened on Sundays

It is seen that among the libraries 58.33% are closed on Sundays and 41.66% kept opened on Sundays also are TU, GU, DU, AAU and KKHSOU.

5.1.3 Library user

User Category	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Faculty	333	283	1104	253	523	70	44	70	150	7	300	120
Research Scholar	287	503	6146	533	1581	64	30	30	30	2	14	35
PG/UG Students	1280	3940	1328	5908	-	1500	-	1000	509	378	1191	1869
Others	318	267	100	315	540	50	150	50	150	29	-	105
Total	2218	4993	8678	7009	2644	1684	224	1150	839	416	1505	2129

(-) denotes Not Applicable.

5.1.3.1 Library user: Faculty

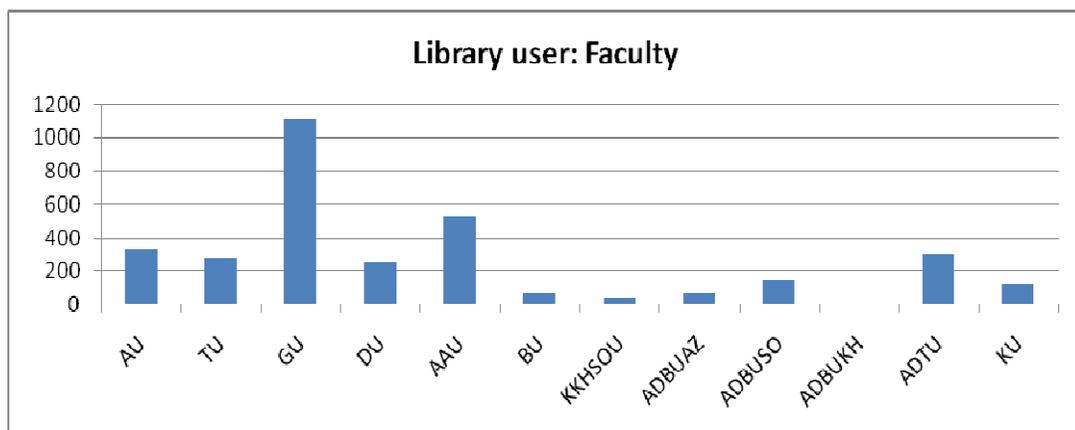


Figure 2 Library user: Faculty

Table 3 and figure number 2 shows highest number of faculty found in Gauhati University followed by AAU and AU as second and third respectively and lowest in Assam Don Bosco University Kharghuli.

5.1.3.2 Library user: Research Scholar

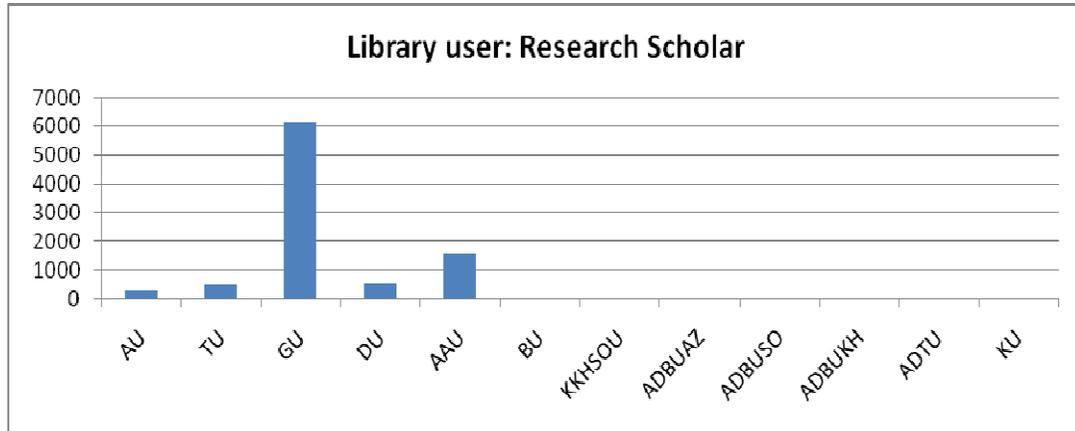


Figure 3 Library user: Research Scholar

It is seen from figure number 3 that highest number of research scholar found in Gauhati University, followed by AAU as second and lowest in Assam Don Bosco University Kharghuli.

5.1.3.3 Library user: PG/UG students

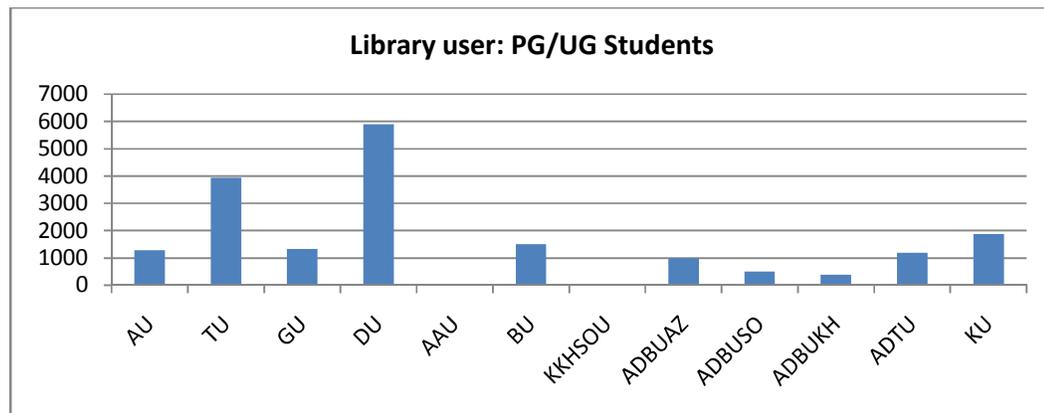


Figure 4 Library user: PG/UG students

It is seen from figure number 4 that highest number of post graduate/ under graduate user found in Dibrugarh University, followed by Tezpur University as second and lowest in Assam Don Bosco University Kharghuli.

5.1.3.4 Other library user

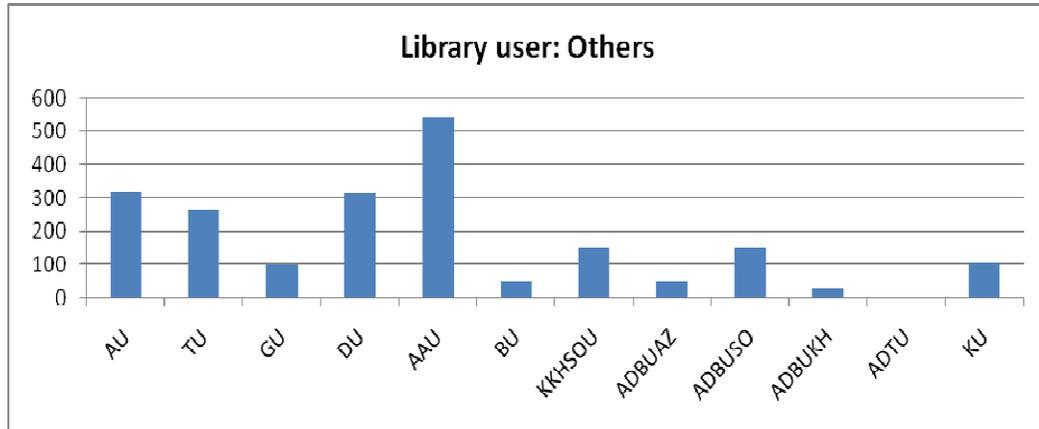


Figure 5 Library user: Others

It is seen from figure number 5 that number of library users as others is highest in AAU, followed by AU and DU as second and third respectively and lowest in Assam Don Bosco University Kharghuli.

5.1.3.5 Total library user

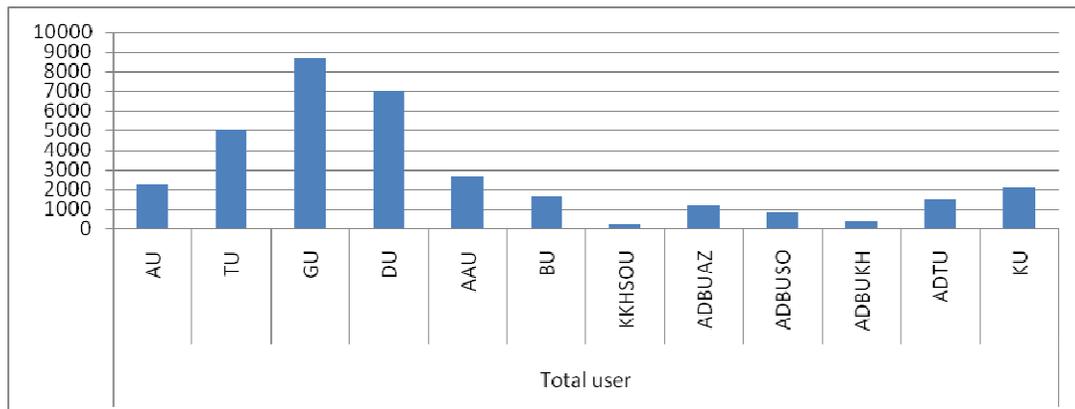


Figure 6 Total user

When considered all types of users together it is seen that GU library has highest number of users (8678) followed by DU and TU with 7009 and 4993 numbers respectively whereas KKHSOU is lowest with numbers of 224 users (Figure 6).

5.1.4 Organizational Structure

5.1.4.1 Library Committee

Table 4 Library Committee												
University	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Library Committee	√	√	√	√	√	√	√	√	√	√	√	√
Nature of the committee	-	-	-	-	-	Executive	-	Executive	-	-	-	-
	-	-	-	-	-	-	-	-	Recommendatory	-	-	Recommendatory
	Advisory	-	Advisory	Advisory	Advisory	-	Advisory	-	-	Advisory	Advisory	-
Frequency of meeting	-	six months	six months	six months	-	-	-	six months	-	six months	six months	six months
	-	-	-	-	one year	one year	-	-	one year	-	-	-
	-	-	-	-	-	-	Three months	-	-	-	-	-
Member of committee	Librarian	Librarian	Librarian	Librarian	Librarian	Librarian	Librarian	Librarian	Librarian	Librarian	-	-
	-	Deputy Librarian	-	Deputy Librarian	Deputy Librarian	Deputy Librarian	Deputy Librarian	Deputy Librarian	-	-	-	-
	-	-	-	-	-	Assistant Librarian	Assistant Librarian	Assistant Librarian	-	-	Assistant Librarian	Assistant Librarian

(√) denotes Yes, (-) denotes Not Applicable

Table number 4 stated that all the university libraries have their library committee. The nature of the library committee are executive in BU and ADBUAZ which is 16.66%. Library committee with recommendatory in nature found 16.66% they are ADBUSO and KU. Rest 58.33% libraries have committee of advisory nature namely, AU, GU, DU, AAU, KKHSOU, ADBUKH and ADTU.

The frequency of organizing a meeting of the library committee is found as six month in 58.33% libraries, namely, TU, GU, DU, ADBUAZ, ADBUKH, ADTU and KU. The university library of AAU, BU and ADBUSO organize the library committee meeting once in a year which is 25% of the total population. The KKHSOU library organizes library committee meeting within three month which is 8.33%.

5.1.4.2 Library professional from the library who is member of the library committee

Almost all the university librarians are the member of their own library committee which is 83.33%, except ADTU and KU that is 16.66%. The deputy librarians of six universities (TU, DU, AAU, BU, KKHSOU and ADBUAZ) and also assistant librarians of the BU, KKHSOU, ADBUAZ, ADTU and KU is the member of library committee which is 50% and 41.66% respectively (Table 4).

5.1.4.3 Library personnel

Library personnel	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Professional staff	15	11	15	9	7	1	2	1	1	1	2	2
Semi-professional staff	-	2	10	8	7	1	1	2	Nil	Nil	Nil	3
Administrative staff	2	2	6	7	2	1	Nil	Nil	Nil	Nil	Nil	Nil
Working staff	5	3	19	14	-	3	Nil	Nil	1	1	3	4
Total	22	18	50	38	16	6	3	3	2	2	5	9

(-) denotes Not Applicable.

5.1.4.3.1 Professional Staff

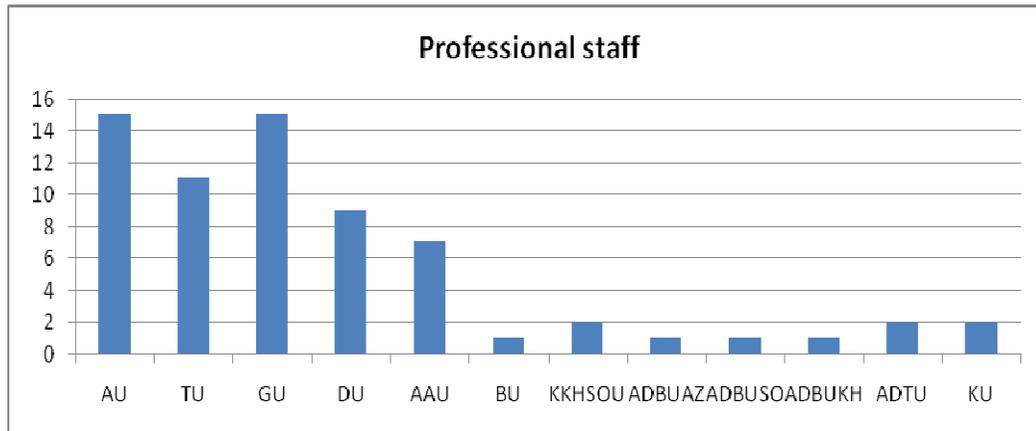


Figure 7 Professional staff

Table 5 and figure number 7 shows number of professional staff is highest in Assam University and Gauhati University is 15 each followed by Tezpur University is 11 as second and Dibrugarh University is 9 as third position and Bodoland University, Assam Don Bosco University Azara, Assam Don Bosco University Sonapur and Assam Don Bosco University Kharghuli is 1 as lowest in number.

5.1.4.3.2 Semiprofessional staff

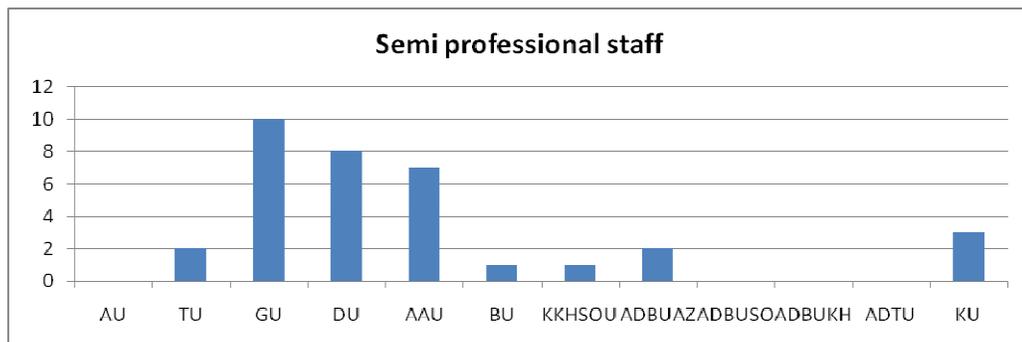


Figure 8 Semi-professional staff

Table 5 and figure number 8 shows semi-professional staff where Gauhati University is highest in number followed by Dibrugarh University as second, Assam Agricultural University as third and Bodoland University and KKHSOU is lowest in number.

5.1.4.3.3 Administrative staff

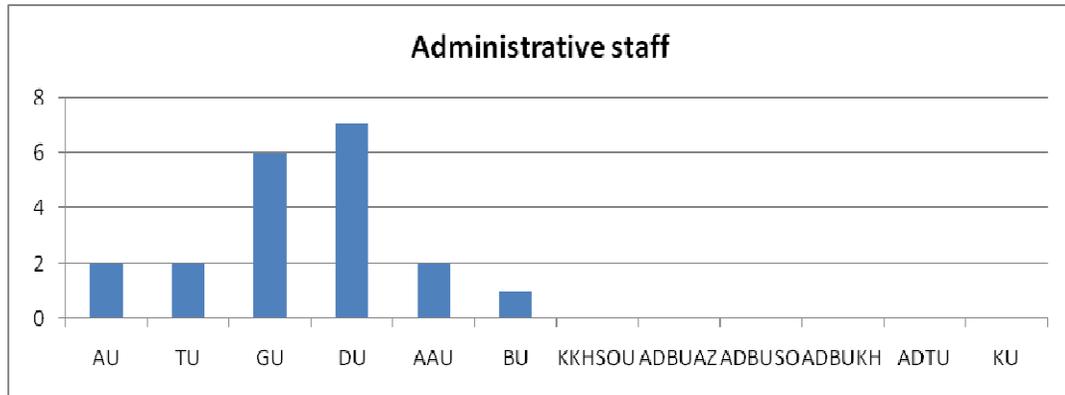


Figure 9 Administrative staff

It is stated from figure number 9 that number of administrative staff is highest in Dibrugarh University followed by Gauhati University and lowest in number as in Bodoland University.

5.1.4.3.4 Working staff

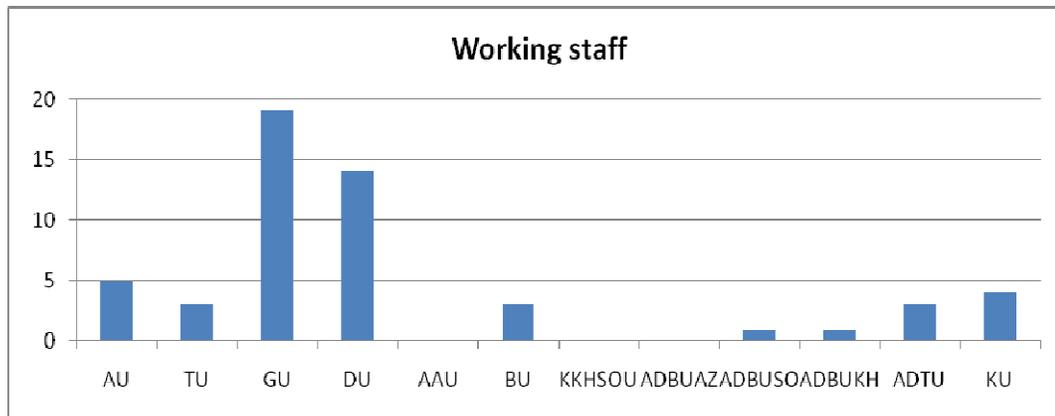


Figure 10 Working staff

Working staff shows in table 5 and figure number 10 is highest in Gauhati University, followed by Dibrugarh University as second and Assam Don Bosco University Sonapur and Assam Assam Don Bosco University Kharghuli is lowest in number.

5.1.4.3.5 Total staff

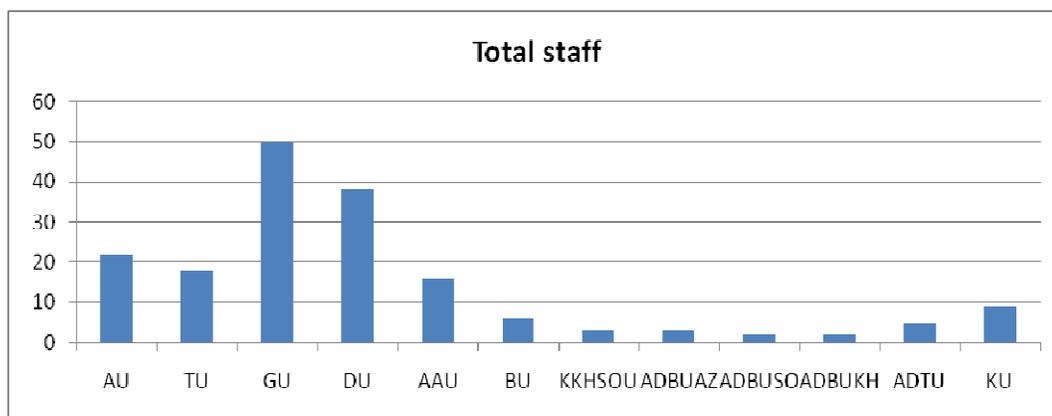


Figure 11 Total staff

Table 5 and figure number 11 stated that total number of library staff found highest in GU is having with 50 numbers followed by DU is having with 38 numbers as second and AU as third in position is having with 22 numbers.

5.1.4.3. a) Pay Structure

University	Pay structure for professional	Pay structure for non-professional	Deploy staff contractual basis	Engage professional trainee
AU	UGC	Central Govt. of India	√	√
TU	UGC	-	√	√
GU	UGC	State govt.	√	√
DU	UGC	State govt.	√	√
AAU	UGC	State govt.	√	√
BU	UGC	State govt.	x	x

KKHSOU	UGC	-	x	x
ADBUAZ	UGC	-	√	√
ADBUSO	UGC	-	√	x
ADBUKH	UGC	-	x	x
ADTU	Private/own	Private/own	x	x
KU	UGC	-	x	x

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table number 6 stated that the university that follows UGC pay structure for library professional is AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH and KU. Pay structure as state government for the non-professional staff is followed by GU, DU, AAU and BU. Government of India (central) pay structure for non-professional is followed by Assam University, Silchar. ADTU is only university which followed its own private standard pay structure for professional and non-professional.

5.1.4.3. b) Deploying Sub Staff

Table number 6 stated that the university library of AU, TU, GU, DU, AAU, ADBUAZ and ADBUSO deploy sub staff for library work on contractual basis.

5.1.4.3. c) Engaging professionally qualified fresher's as trainee

Table number 6 stated that the AU, TU, GU, DU, AAU and ADBUAZ library engage professionally qualified fresher as trainee.

5.1.4.4 Library Professional with practical knowledge of ICT

Description	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Deputy Librarian	1	1	Vacant	1	1	1	-	-	-	-	-	-
ICT Knowledge	1	1	-	1	1	1	-	-	-	-	-	-
Assistant Librarian	2	1	4	3	2	-	1	1	-	1	1	1

ICT Knowledge	2	1	1	3	2	-	1	1	-	1	1	1
Library Assistant	4	3	15	5	4	1	1	-	2	1	1	1
ICT Knowledge	3	3	4	5	4	1	1	-	1	1	1	1
Technical Assistant	-	1	-	Nil	-	-	-	-	1	-	2	-
ICT Knowledge	-	1	-	-	-	-	-	-	1	-	2	-

(-) denotes Not Applicable

5.1.4.4.1 Deputy Librarian with practical knowledge of ICT

Table number 7 stated that the deputy librarian of AU, TU, DU, AAU and BU each has practical knowledge of ICT.

5.1.4.4.2 Assistant Librarian with practical knowledge of ICT

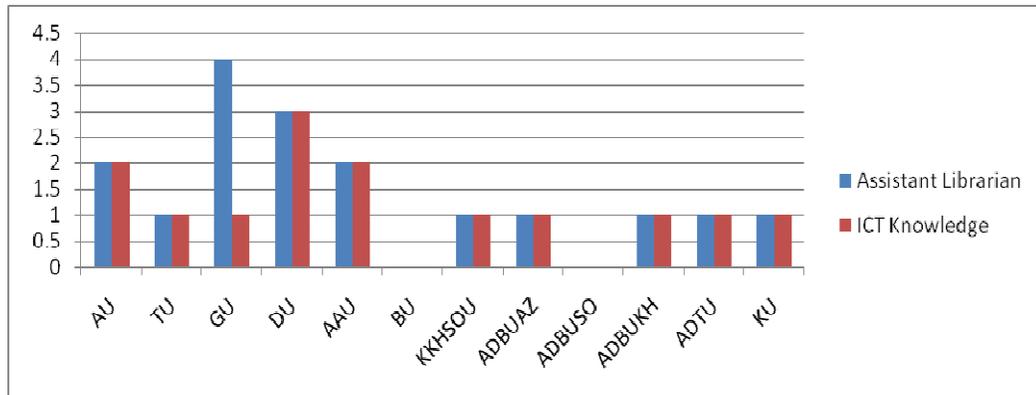


Figure 12 Assistant Librarian with practical knowledge of ICT

Assistant librarian with practical knowledge of ICT showed in table 7 and figure number 12 where ratio of professional and practical knowledge of ICT in all universities is equal except Gauhati University where ratio is 4:1 i.e. 25% assistant librarian have practical knowledge of ICT and other 75% do not have.

5.1.4.4.3 Library Assistant with practical knowledge of ICT

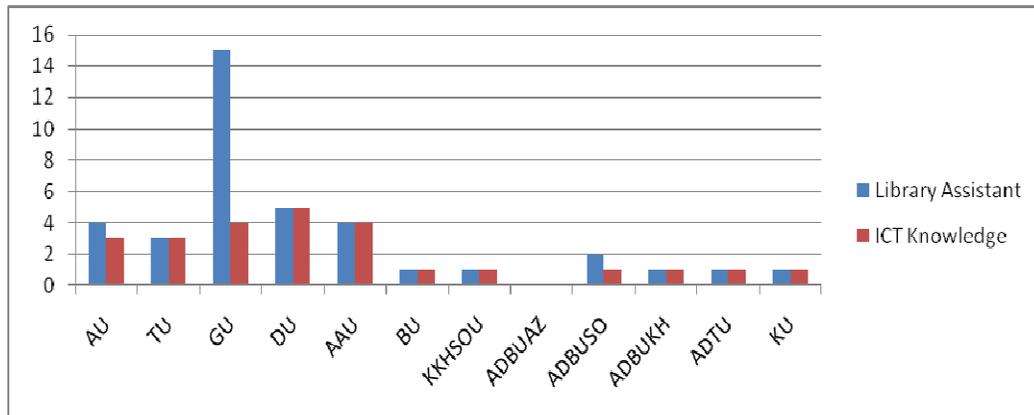


Figure 13 Library Assistant with practical knowledge of ICT

Library assistant with practical knowledge of ICT showed in table 7 and figure number 13 where ratio of professional and practical knowledge of ICT in all universities is equal except Assam University, Gauhati University and Assam Don Bosco University Sonapur where ratio is 4:3, 15:4 and 2:1 respectively. All the technical assistant of TU, ADBUAZ and ADTU having practical knowledge of ICT which ratio is 1:1, 1:1 and 2:2 respectively (Table 7).

5.1.4.5 Conducting training programme for professional staff

University	Conduct Training	Programme conducted as-		
AU	√	Special Refresher/orientation/workshop	In house	Outside
TU	√	Special Refresher/orientation/workshop	In house	-
GU	√	-	In house	-
DU	√	Special Refresher/orientation/workshop	In house	Outside
AAU	√	-	In house	-
BU	√	-	In house	-
KKHSOU	√	Special Refresher/orientation/workshop	In house	Outside

ADBUAZ	√	-	In house	-
ADBUSO	X	-	-	-
ADBUKH	X	-	-	-
ADTU	X	-	-	-
KU	√	-	In house	-

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table number 8 showed that seventy five percent university libraries conducts training programme for professional staff are AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ and KU whereas 25% of university libraries namely, ADBUSO, ADBUKH and ADTU do not conduct any training programme for professional staff. The AU, TU, DU and KKHSOU conducts programme as workshop/ orientation/ specialized refresher course as in house programme. In house method of training programme adopted to train the professional by the university library are AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ and KU. AU, DU and KKHSOU follow the system of deputing professional staff for training programme as outside.

5.1.5 Collection Development Policy

University	Written Collection Development Policy	Regularly implemented	Revised and updated	Include the electronic resources
AU	√	√	√	x
TU	X	-	-	-
GU	√	√	√	√
DU	√	√	√	√
AAU	√	√	-	√
BU	√	√	√	x
KKHSOU	√	√	x	√
ADBUAZ	X	-	-	-
ADBUSO	√	√	√	x

ADBUKH	X	x	x	x
ADTU	X	-	-	v
KU	X	-	-	-

(v) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table number 9 depict that about 58% university libraries, namely, AU, GU, DU, AAU, BU, KKHSOU and ADBUSO, have their written collection development policy whereas TU, ADBUAZ, ADBUKH, ADTU and KU do not have the same which is 41.66% of total libraries under study. All the libraries which have written collection development policy are regularly implementing it by the university library authorities. AU, GU, DU, BU and ADBUSO have revised and updated collection development policy whereas KKHSOU do not have an updated one. The collection development policy of GU, DU, AAU, KKHSOU and ADTU include the electronic resources.

5.1.6 Budgets

5.1.6.1 Total library budget 2012-13 to 2016-17

Year	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	-	145.92	-	44.25	100	-	-	-	-	-	81.6	9.6
2013-2014	-	146.47	211.59	31.8	60	5	-	-	-	-	89.7	8
2014-2015	-	137	204.97	60	30	15	-	16.2	-	-	73.4	6.7
2015-2016	-	121.48	261.42	25	179	8	-	22.22	5.16	-	73.8	7
2016-2017	-	36.21	301.72	105.4	205	8	-	26.05	20.64	-	77.5	7.5
Total	-	587.09	979.72	266.45	574	36	-	64.48	25.8	-	396	38.8

(-) denotes Not Applicable

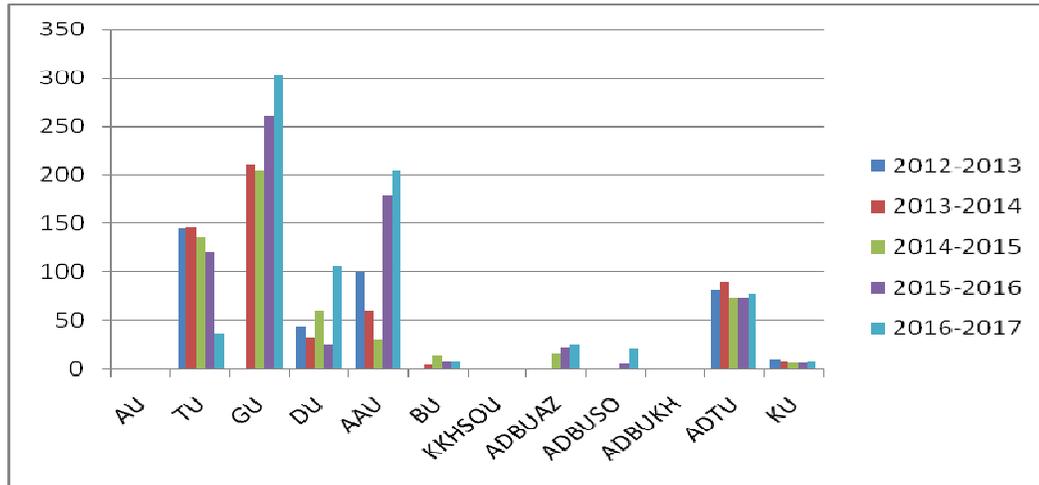


Figure 14 Total library budgets 2012-13 to 2016-17

Table 10 and figure number 14 shows library budgets of the universities under study during 2012-13 to 2016-17. Highest budget found in Gauhati University in the year 2016-2017 and lowest in Bodoland university in the year 2013-2014. Total library budget is highest with GU is Rs 979.72 lakhs followed by TU is Rs 587.09 lakhs as second and AAU is Rs 574 lakhs as third for the period of five years of 2012-13 to 2016-17.

5.1.6.2 Budgetary allocation for Printed Books 2012-13 to 2016-17

Year	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012	-	-	-	-	-	-	-	-	-	-	-	-
2013	-	27.16	9.26	29.78	-	-	-	-	-	0.16	-	7.64
2013	19.0	66.92	31.0	18.75	-	50	-	5.44	-	0.48	-	1.41
2014	20.2	60.07	3.72	44.16	-	-	-	4.94	-	0.17	-	2.07

2015 -					-	-	-				-	
2016 -	-	41.28	0.82	19.11				6.76	3.08	0.95		0.2
2016 -					-	-	-				-	
2017 -	-	93.79	-	75				-	11.97	0.27		2.83
Total	39.2 5	289.2 6	44.8 8	186.8 2	-	50	-	17.15	15.06	2.05	-	14.1 7

(-) denotes Not Applicable

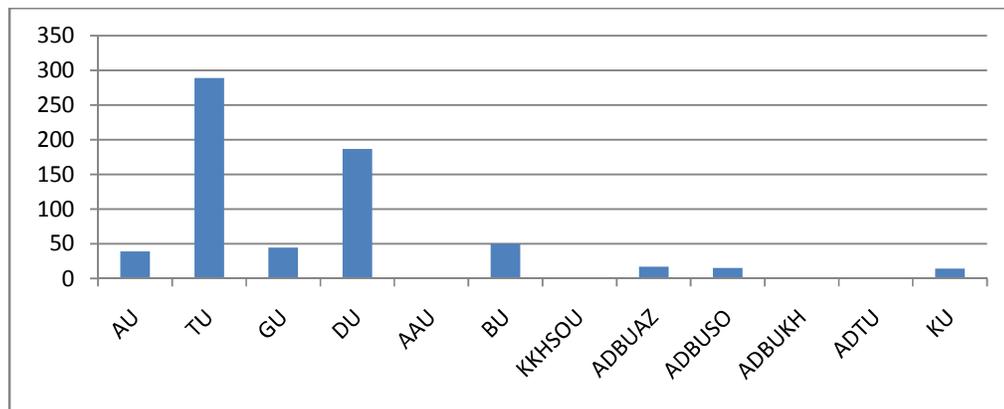


Figure 15 Total budgetary allocations for printed books 2012-13 to 2016-17

Table 11 and figure number 15 showed that budgetary expenses for printed books for the period of 2012-13 to 2016-17 is highest in Tezpur University with Rs 289.26 lakhs followed by Dibrugarh University with Rs 186.82 lakhs as second and lowest in Assam Don Bosco University Kharghuli is with Rs 2.05 lakhs for the same period.

5.1.6.3 Budgetary allocation for Printed Journals 2012-13 to 2016-17

Year	AU	TU	GU	DU	AAU	BU	KKH SOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	-	51.59	10.95	3.81	-	-	-	-	-	1.05	-	-
2013-2014	85.77	30.69	8.59	2.41	-	-	-	2.28	-	1.06	-	-
2014-2015	2.14	36.94	4.69	2.99	-	-	-	1.83	-	0.37	-	-
2015-2016	-	40.64	1.51	2.99	-	-	-	2.24	-	0.6	-	-
2016-2017	-	1.67	-	3	-	-	-	-	-	0.5	-	-
Total	87.91	161.55	25.76	15.21	-	-	-	6.36	-	3.6	-	-

(-) denotes Not Applicable

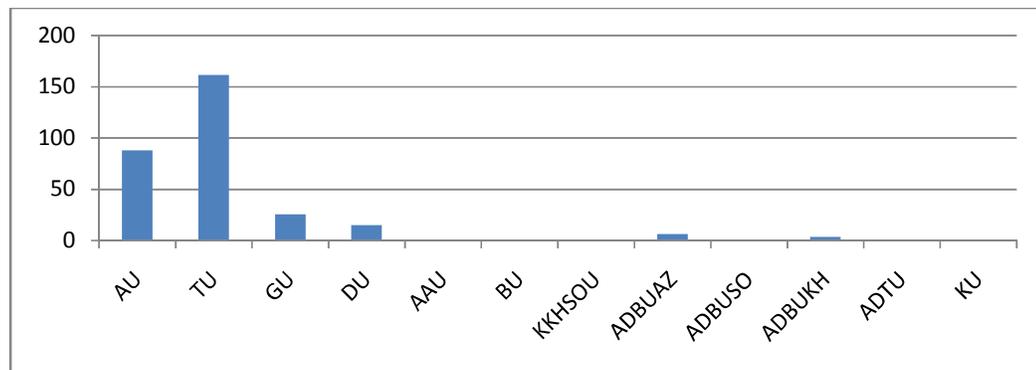


Figure 16 Total budgetary allocations for printed journals 2012-13 to 2016-17

Table 12 and figure number 16 represents budgetary allocation for printed journals 2012-13 to 2016-17 where Tezpur University allocates Rs 161.55 lakhs as highest followed by Assam University allocates Rs 87.91 lakhs as second and Assam Don Bosco University Kharghuli allocates Rs 3.6 lakhs as lowest for five conjugative years.

5.1.6.4 Budgetary allocation for Electronic Books 2012-13 to 2016-17

Year	A U	TU	G U	DU	AA U	B U	KKHSO U	ADBUA Z	ADBUS O	ADBUK H	ADT U	K U
2012-2013	-	25.97	-	-	-	-	-	-	-	-	-	-
2013-2014	-	54.89	-	10	-	-	-	-	-	-	-	-
2014-2015	-	49.27	-	11.8 1	-	-	-	-	-	-	-	-
2015-2016	-	48.15	-	-	-	-	-	-	-	-	-	-
2016-2017	-	53.53	-	-	-	-	-	-	-	-	-	-
Total	-	231.8 3	-	21.8 1	-	-	-	-	-	-	-	-

(-) denotes Not Applicable

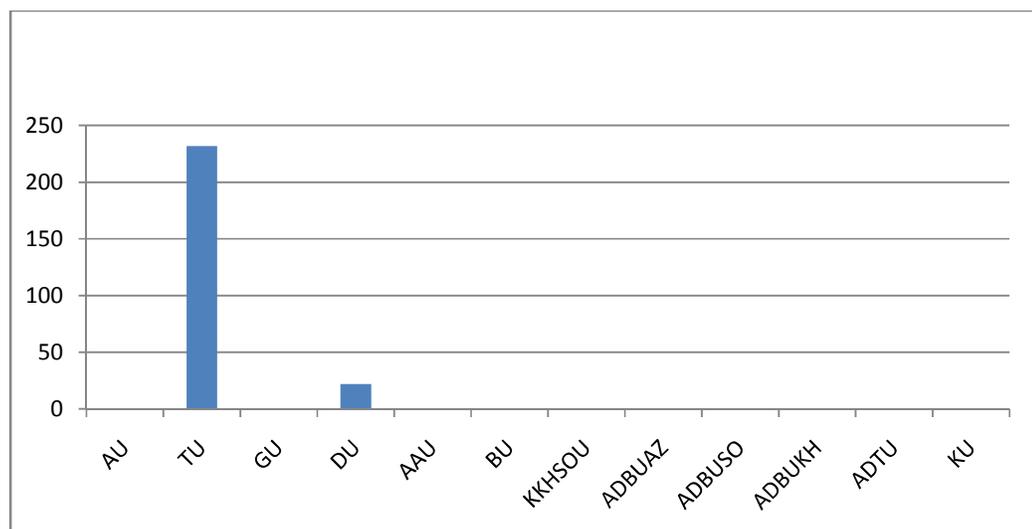


Figure 17 Total budgetary allocations for electronic books 2012-13 to 2016-17

Table 13 and figure number 17 represents that budgetary allocation for electronic books 2012-13 to 2016-17 is highest in Tezpur University allocates Rs 231.83 lakhs and Dibrugarh University allocates Rs 21.81 lakhs for five conjugative years. Rest of

the university libraries seems to have not spent any amount for procuring e-books for their libraries.

5.1.6.5 Budgetary allocation for Electronic Journals 2012-13 to 2016-17

Year	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	-	-	-	-	-	-	-	-	-	2.21	-	Nil
2013-2014	-	-	9.92	-	-	-	-	8.47	-	2.88	-	9.58
2014-2015	-	-	19.21	-	-	-	-	15.43	-	2.18	-	2.76
2015-2016	-	-	20.33	-	-	-	-	17.04	2.08	2.18	-	Nil
2016-2017	-	-	23.48	26.7	-	-	-	-	8.66	2.51	-	2.76
Total	-	-	72.96	26.7	-	-	-	40.95	10.74	11.97	-	15.11

(-) denotes Not Applicable

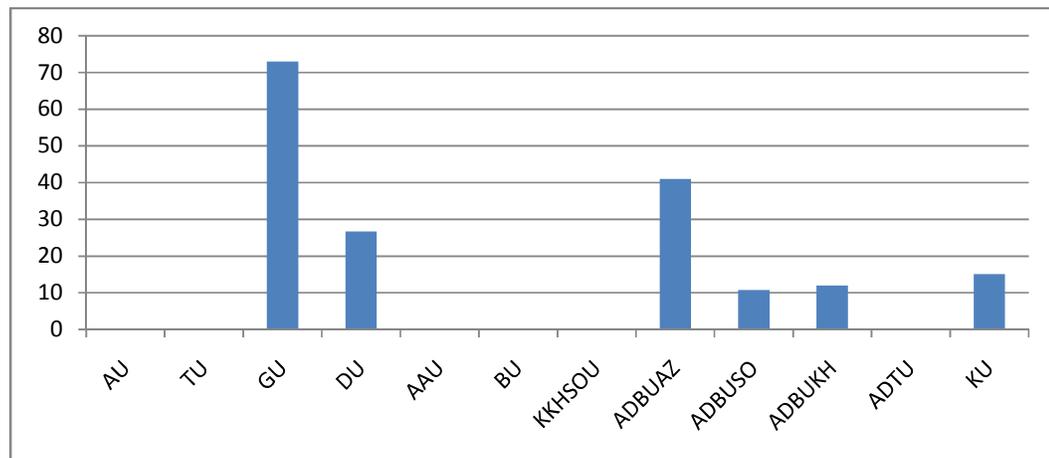


Figure 18 Total budgetary allocations for electronic journals 2012-13 to 2016-17

Table 14 and figure number 18 represents budgetary allocation of university libraries under study for electronic journals subscription during 2012-13 to 2016-17 where Gauhati University is highest with allocation of Rs 72.96 lakhs followed by Assam Don Bosco University Azara and Dibrugarh University with Rs 40.95 lakhs and Rs 26.7 lakhs respectively for the above period of five years. It is observed that 50% of

the libraries have not allocated any budget for acquiring e-journals including two central universities namely AU and TU.

5.1.6.6 Operating Expenditure of library for preceding five years 2012-13 to 2016-17

AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
-	-	6.19	82.0	-	4.5	-	-	-	-	-	-

(-) denotes Not Applicable

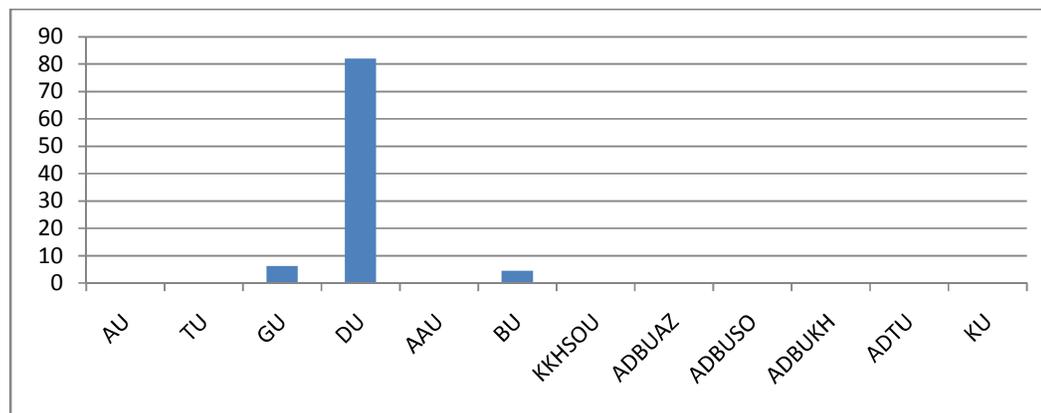


Figure 19 Total operating expenditure of library for preceding five years 2012-13 to 2016-17

Out of twelve universities, only three have provided data on their operating expenses for the period under study. Table 15 and figure number 19 showed that total operating expenditure of library for last five years (2012-13 to 2016-17) is highest in Dibrugarh University which spends Rs 82.0 lakhs followed by Gauhati University with Rs 6.19 lakhs and Bodoland University with Rs 4.5 lakhs.

5.1.7 Document Selection

Table 16 Library Resource Selection					
University	User who plays major role in the document selection				Resource selection tools
AU	Faculty	-	-	-	Publishers catalogue
TU	Faculty	-	-	-	Publishers catalogue
GU	Faculty	Students	-	-	Publishers catalogue
DU	Faculty	Students	Library Staff	VC & library committee	Publishers catalogue, Book quotations etc.
AAU	Faculty	-	-	-	Publishers catalogue, Book quotations etc.
BU	Faculty	-	-	-	Publishers catalogue, Book quotations etc.
KKHSOU	Faculty	-	-	-	Publishers catalogue, Reference list etc.
ADBUAZ	Faculty	-	Library Staff	-	Publishers catalogue, Book quotations etc.
ADBUSO	Faculty	-	Library Staff	-	Publishers catalogue, Book quotations etc.
ADBUKH	Faculty	Students	-	-	Publishers catalogue, Book quotations etc.
ADTU	Faculty	-	Library Staff	-	Publishers catalogue, Book quotations etc.
KU	Faculty	-	Library Staff	-	Publishers catalogue, Book quotations etc.

(-) denotes Not Applicable

Document selection is an important process of collection development in a university library. Table number 16 stated that faculty plays the major role in the process of document selection in all university libraries under study. Scholars and students also

play a major role in GU, DU and ADBUKH. Views of the library staff is also given due importance in the process of selection of documents in DU, ADBUAZ, ADBUSO, ADTU and KU. In Dibrugarh University, Vice Chancellor (VC) and Library Committee member also plays a vital role in document selection.

All libraries under study uses publisher's catalogue as important tools for resources selection. Except AU, TU and GU all other libraries also considers book quotations, reference list etc. received from vendors from time to time as important source for selection of books. Moreover the DU used stock list, book reviewed in news-paper, internet reviews etc., KKHSOU used reference lists, social science resources etc. and ADBUSO used core list and reference of various packages etc. also in the process of selection of documents.

5.1.8 Vendor Selection and Book Order

University	Criteria for selecting the book vendors						Procedure for place an order		
	On offer	Quick Service	Multi Stocks	Timely procurement	Regular Communications	Accepting delayed payment	From publisher	Online purchase	Quotations
AU	-	√	√	-	-	-	-	-	-
TU	√	√	√	√	√	√	-	√	-
GU	-	√	-	√	√	-	-	-	-
DU	-	-	√	√	-	√	√	-	-
AAU	√	√	√	-	-	-	√	-	-
BU	√	√	√	√	√	√	-	√	-
KKHSOU	√	-	-	-	√	-	√	-	-
ADBUAZ	√	√	√	√	√	√	-	-	√
ADBUSO	√	√	√	√	√	√	√	-	√
ADBUKH	√	√	√	√	√	-	√	-	√

ADTU	-	-	√	√	-	-	√	-	-
KU	√	√	√	√	√	√	-	-	√

(√) denotes Yes, (-) denotes Not Applicable

Vendor selection is a trivial task in the library. The library is always concerned about quick and appropriate supply and legitimate billing. It also expects supplier to allow sufficient time to libraries for arranging the payments. In case of procurement of foreign documents from vendor, application of appropriate foreign exchange rates while converting the price of books in foreign currency to Indian rupee is also a complex process as these rates are ever changing. The Good Offices Committee is a voluntary organization formed to establish uniform terms of book supplies to libraries, and to ensure a fair working margin to booksellers and an efficient service to the libraries with fair representation from Govt. of India, the Federation of Publishers' & Booksellers' Association in India, prominent libraries, etc. who has fixed certain mutually satisfactory terms and conditions acceptable to all parties.

Table 17 shows criteria adopted for vendor selection by the libraries under study that on offer as main criteria for selecting the book suppliers followed by the university libraries of TU, AAU, BU, ADBUAZ, ADBUSO, ADBUKH and KU which also followed quick supply and multiple copies in stock as another criteria. KKHSOU library followed on offer as the main criteria for selecting the book suppliers. Quick supply and multiple copies in stock as main criteria for selecting the book supplier is followed by AU library. GU library followed the quick supply as the main criteria. Multiple copies in stock are the criteria followed by DU and ADTU library to select a vendor for supply books. Timely procurement of orders is followed by the university library of TU, GU, DU, BU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU as one of the main criteria for supplier selection. The criteria regular communications is followed by the university libraries of TU, GU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH and KU. Accepting delay payment as criteria to selecting suppliers is followed by the university library of TU, DU, BU, ADBUAZ, ADBUSO and KU. The KKHSOU library preferred the local supplier for ordering

documents. The Library of KU follows one of the criteria for selecting the suppliers on basis of supplier who provide proper document in regard of billing. Libraries of ADBUAZ, ADBUSO, ADBUKH and KU also prefer to select vendors who are agreeable to submit their quotation against tenders for supply of books.

Table 17 regarding book orders states that the Assam university library places an order for purchasing a document to the registered vendor only. The Gauhati university library like to places an order for purchasing documents to a vendor. The DU, AAU, KKHSOU, ADBUSO, ADBUKH and ADTU library places an order for purchasing a document directly from publisher. The TU and BU library prefers to places an order for purchasing a document by online.

5.1.9 Collection of resources

Collections	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Printed Books	128449	86004	271861	231226	175000	16000	18113	15917	4817	4082	20461	10745
E-Books	Nil	500	500	370	1370	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Printed Journals in current list of subscription	268	177	352	143	50	24	35	63	108	25	245	38
E-Journal in current list of subscription	16000	10600	48000	10500	5000	Nil	3000	Nil	42032	1200	19600	24730

5.1.9.1 Collection of Printed Books

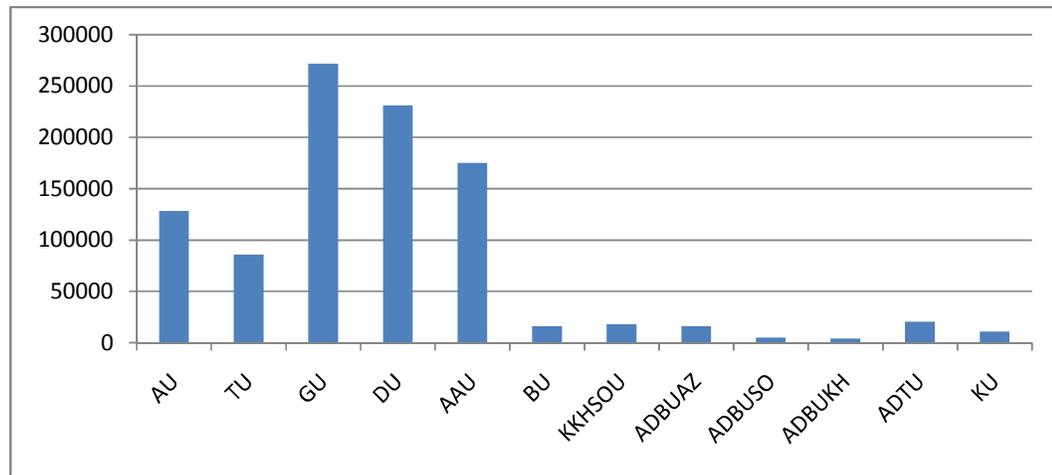


Figure 20 Total collections of printed book

Table number 18 and figure number 20 shows that the collection of printed books is highest with Gauhati University having 271861 followed by Dibrugarh university having 231226 as second and Assam Agricultural University is in third position having 175000 and Assam Don Bosco University Kharghuli is in bottom position having with 4082 numbers.

5.1.9.2 Collection of E-books

Table number 18 stated that the 33.33% university libraries having e-books they are TU, GU, DU and AAU has 500, 500, 370 and 1370 number of books respectively. The university library of AAU is highest followed by TU and GU is second and DU is third in number regarding e-books.

5.1.9.3 Number of Printed journals in current list of periodical subscription

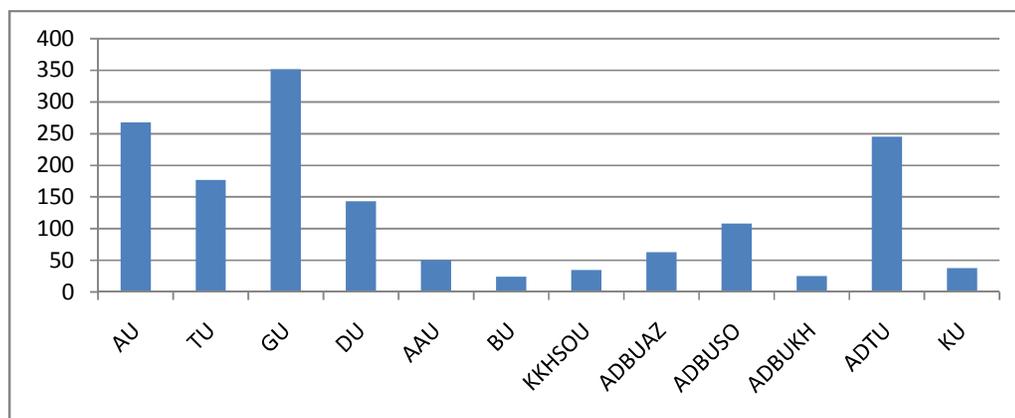


Figure 21 Total number of printed journal in current list of periodical subscription

Table 18 and figure number 21 indicates the collection of printed journal where highest collection is having with Gauhati University is 352 numbers, followed by AU 268 numbers as second and lowest collection is having with Bodoland University. In Assam University out of 268 numbers of printed journals 186 numbers are national and 82 numbers are international journals. In Tezpur University out of 177 printed journals 85 is national and 92 are international journals. Out of 24 all 24 are national printed journal in BU. ADBUKH is having 25 printed journals of which 23 is national and 2 is international. ADTU is having 245 printed journals where all are national.

5.1.9.4 Number of Online journals in current list of periodical subscription

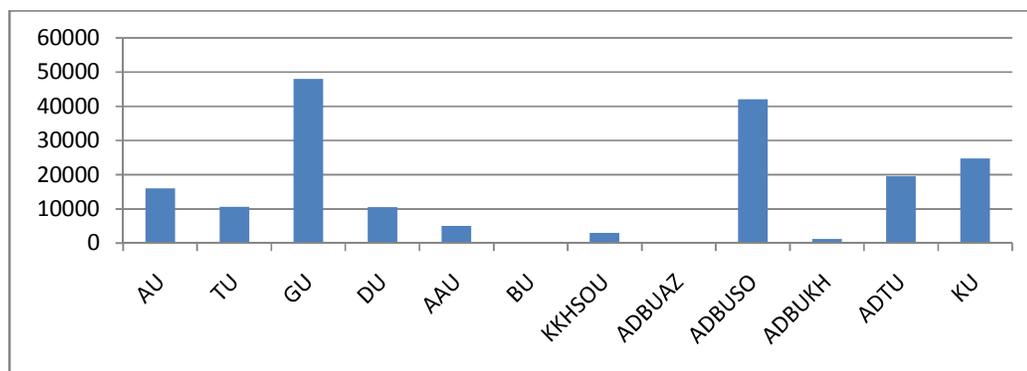


Figure 22 Total number of online journal in current list of periodical subscription

Table 18 and figure number 22 states the collection of online journal where highest collection is having with Gauhati University is 48000 numbers followed by ADBUSO is 42032 numbers as second and lowest collection is having with Assam Don Bosco University Kharghuli.

5.1.9.5 Addition of Printed Books during five years (2012 to 2017)

Year	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	-	3147	1483	1957	-	-	215	580	-	369	699	1469
2013-2014	-	4721	3475	2812	-	-	41	654	-	292	737	2550
2014-2015	-	4203	1293	1855	-	-	446	743	-	109	268	2430
2015-2016	-	12067	983	2606	-	-	1715	886	1865	144	3708	2069
2016-2017	-	3197	2154	558	-	-	604	700	2952	566	560	2227
Total	-	27335	9388	9788	-	-	3021	3563	4817	1480	5972	10745

(-) denotes Not Applicable

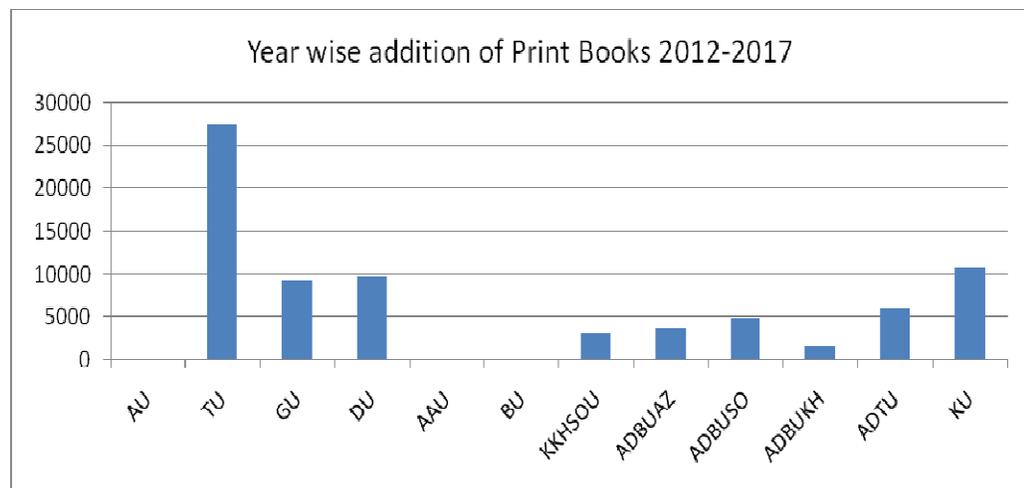


Figure 23 Addition of printed books in total during five years (2012 to 2017)

Table 19 and figure number 23 stated that *year wise addition of printed books-*

- From 2012 to 2013 is highest in TU is 3147 numbers, followed by DU is 1957 numbers as second and GU is 1483 numbers as third in position.
- From 2013 to 2014 is highest in TU is 4721 numbers, followed by GU is 3475 numbers as second and DU is 2812 numbers as third in position.
- From 2014 to 2015 is highest in TU is 4203 numbers, followed by KU is 2430 numbers as second and DU is 1855 numbers as third in position.
- From 2015 to 2016 is highest in TU is 12067 numbers, followed by ADTU is 3708 numbers as second and DU is 2606 numbers as third in position.
- From 2016 to 2017 is highest in TU is 3197 numbers, followed by ADBUSO is 2952 numbers as second and KU is 2227 numbers as third in position.

From table 19 it is evident that the total addition of printed books from 2012 to 2017 is highest in Tezpur University is 27335 numbers, followed by Kaziranga University with 10745 numbers and Assam Don Bosco University Kharghuli with 1480 is lowest in position in five conjugative years.

5.1.9.6 Printed Journals acquired during five years (2012 to 2017)

Year	Type	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	International	-	146	102	142	-	-	-	-	-	2	-	-
	National	-	-	-	-	-	-	-	-	-	24	16	-
2013-2014	International	-	131	101	142	-	-	-	-	-	2	-	8
	National	-	-	-	-	-	-	-	-	-	24	9	30
2014-2015	International	-	163	66	142	-	-	-	-	-	3	-	8
	National	-	-	-	-	-	-	-	48	-	20	9	30
2015-2016	International	-	175	73	143	-	-	-	-	-	3	-	-
	National	-	-	-	-	-	-	-	48	-	24	-	-

2016-2017	International	-	180	10	143	-	-	-	-	-	3	-	8
	National	-	-	-	-	-	5	-	63	-	23	17	30
Total	International	82	795	352	712	-	-	-	-	-	13	-	24
	National	186	-	-	-	-	5	-	159	-	115	51	90

(-) denotes Not Applicable

5.1.9.6.1 Printed International Journal acquired during five years (2012 to 2017)

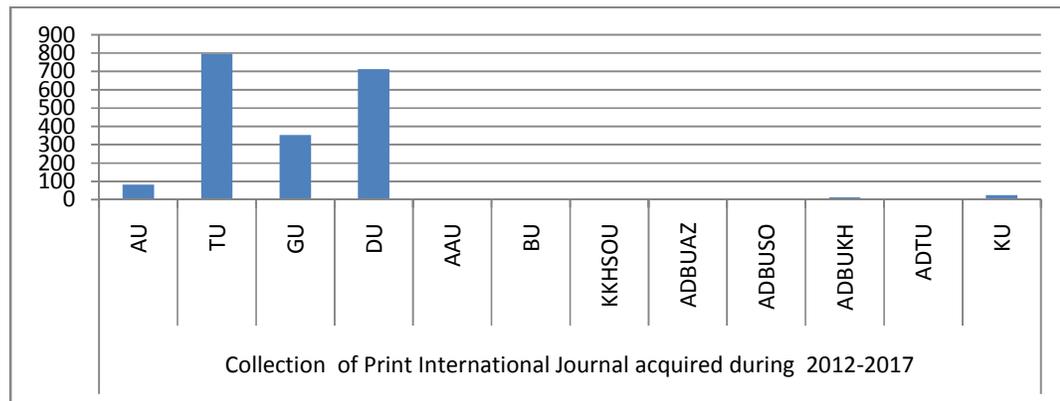


Figure 24 Printed international journal acquired during 2012 to 2017

Collection of printed international journals of various university libraries during 2012-2017 are shown in table 20 and figure number 24 where Tezpur University is highest with 795 numbers followed by Dibrugarh University and Gauhati University with 712 and 352 numbers respectively and Assam Don Bosco University Kharghuli is in the bottom position with 13 numbers.

5.1.9.6.2 Printed National Journal acquired during five years (2012 to 2017)

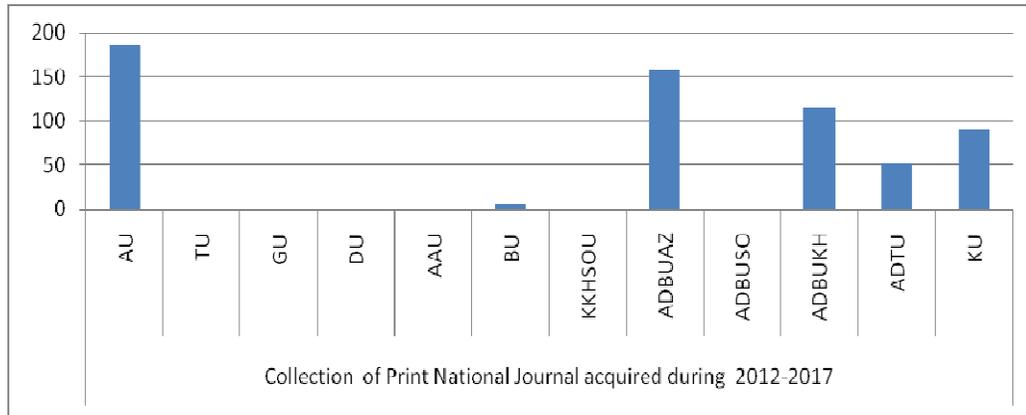


Figure 25 Printed national journal acquired during five years 2012 to 2017

Table number 20 and figure number 25 showed that the collection of printed national journal from 2012 to 2017 where Assam University is highest, having with 186 numbers followed by Assam Don Bosco University Azara in second having with 159 numbers and Bodoland University as lowest in position having with 5 numbers only.

5.1.9.7 Printed Thesis acquired during five years (2012 to 2017)

Year	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
2012-2013	-	-	-	84	-	-	-	-	-	-	-	-
2013-2014	-	-	-	69	-	-	-	-	-	-	-	-
2014-2015	-	-	-	75	-	-	-	-	-	-	-	56
2015-2016	-	453	-	85	-	-	-	-	-	-	-	33
2016-2017	-	489	-	105	-	5	-	13	4	-	4	128
Total	-	942	4285	418	3000	5	-	13	4	-	4	217

(-) denotes Not Applicable

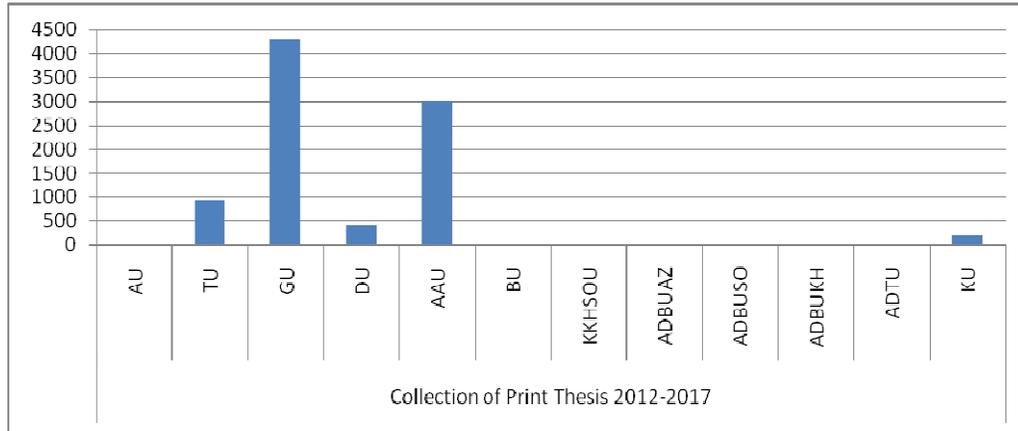


Figure 26 Collection of printed thesis 2012 to 2017

Table 21 and figure number 26 shows the collection of printed thesis of the university libraries during 2012 to 2017 where Gauhati University is having with highest numbers (4285) followed by Assam Agricultural University in the second position with 3000 numbers and Tezpur University in third position with 942 numbers. Assam Don Bosco University Sonapur and Assam Down Town University are lowest in position having with four numbers each.

5.1.9.8 Subscribing e-resources

University	Mode of subscription		from whom the library subscribe	
AU	-	Consortia	-	-
TU	-	-	-	-
GU	Independently	Consortia	-	-
DU	Independently	Consortia	From publisher	-
AAU	Independently	Consortia	-	From vendor
BU	-	-	-	-
KKHSOU	Independently	-	From publisher	-
ADBUAZ	Independently	Consortia	-	-

ADBUSO	Independently	-	From publisher	From vendor
ADBUKH	Independently	-	-	From vendor
ADTU	Independently	-	-	From vendor
KU	Independently	-	-	From vendor

(-) denotes Not Applicable

Table number 22 stated that the university libraries of GU, DU, AAU and ADBUAZ are subscribing e-resources both independently and through consortia. Assam university library is having access to e-resources from consortia only. The libraries of KKHSOU, ADBUSO, ADBUKH, ADTU and KU are subscribing e-resources independently. The libraries subscribing e-resources from publisher are DU, KKHSOU and ADBUSO. The libraries subscribing e-resources through vendor are AAU, ADBUSO, ADBUKH, ADTU and KU.

5.1.10 Policies for Licensing

University	licensing policies in practice	Type of access		Renewal of license	Authentication of user		Library member of any Indian Consortia				Use statistics of the consortium	
		Archival access	Back up copy		IP address	Login password	UGC INFONET	INDEST	CeRA	Any other		
AU	-	-	-	-	-	-	-	-	-	-	-	√
TU	-	-	-	-	√	-	√	-	-	-	-	√
GU	-	√	-	Notice issued	√	√	√	-	-	-	-	√
DU	Depends	√		Notice issued	√		√	√			DelCon	√
AAU	ICAR	-	-	-	√	-	-	-	√		DELNET	√
BU	-	-	-	-	-	-	-	-			DELNET	-
KKHSOU	-	-	-	Notice issued	√	√	x	-	-	-	-	-
ADBUAZ	-	√	√	Notice issued	√	√	-	-	-		A/F	x

ADBUSO	IP based	√	√	Notice issued	√	-	-	-	-	A/F	-
ADBUKH	-	-	-	Notice issued	-	√	-	-	-	-	-
ADTU	-	-	-	Notice issued	-	√	-	-	-	Z Gate	√
KU	-	√	-	Notice issued	√	-	x	-	-	-	-

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table 23 stated that:

Dibrugarh University library mentioned that their licensing policy in practice depends on organization and product. AAU library follow the complete policy as per ICAR guidelines for licensing. ADBUSO library is using the IP based licensing policy in practice.

The archival type of access provide by the licensor to GU, DU, ADBUAZ, ADBUSO and KU library. Back up copy type of access provide by the licensor to ADBUAZ and ADBUSO library.

The nature of renewal of licensing agreement in GU, DU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU library is notice issued for renewal.

No bargaining is one of the major barriers facing while dealing with the licensor found in DU, ADBUAZ and ADBUSO library. The strictness of vendor as major barrier is facing while dealing with the licensor found in DU, ADBUAZ and KU library. The major barrier as adjust license agreements to the need of the library is facing while dealing with the licensor found in GU and DU.

The IP address is the process by which the libraries of TU, GU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO and KU identified and authenticated the use of e-resource to authorized users. The libraries of GU, KKHSOU, ADBUAZ, ADBUKH and ADTU use the process of login password to identify and authenticate the use of e-resource to authorized users.

Anti-plagiarism software is being used by GU, DU, KKHSOU, ADBUAZ, ADBUSO and ADBUKH library to control the copyright of e-resources. In DU library, as access is all IP based the publisher detects and take measures by themselves. Some special security measure is applied to control the copyright of e-resources in ADTU library.

Block from accessing as the limitation is imposed by the library for copying portions of licensed material is by ADBUAZ. Cancel membership as the limitation is imposed by the library for copying portions of licensed material is by DU. DU library warns a user as the limitation is imposed by the library for copying portions of licensed materials.

The library of TU, GU and DU are the member of UGC INFONET consortia. DU library is the member of INDEST consortia. AAU library is the member of CERA (Consortium of Electronic Resources in Agriculture). DU library is also the member of DelCon. AAU, BU library is the member of DELNET. ADTU is the member of Z Gate.

AU, TU, GU, DU, AAU and ADTU library have the periodical use statistics from the consortium.

Only DU library take help of a legal advisor while doing or signing license agreement with publisher of e-journal, on the other hand all other libraries do not take help of a legal advisor at the time of signing.

All the libraries i.e. AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU ask the publisher to authenticate with the new IP address in case of access to archival copy of journal is lost due to change of institutional public IP address within the subscription period. The libraries of AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUKH, ADTU and KU pursue the matter with the publisher in case of access to archival copy of journal is lost due to deletion or non-renewal of journal from current list of subscription. ADBUSO library

inform to higher authority for legal action in case of access to archival copy of journal is lost due to deletion or non-renewal of journal from current list of subscription.

5.1.11 Technical Operation

Table 24 Technical Operation												
Description	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Classification Procedure	-	Manual	Manual	Manual	Manual	-	Manual	Manual	Manual	Manual	Manual	Manual
	Web base	Web base	-	-	-	Web base	Web base	Web base	-	-	-	Web base
Classification Scheme	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC	DDC
	-	-	-	-	-	-	-	-	-	-	-	-
Cataloguing Procedure	-	Manual	-	Manual	Manual	-	Manual	Manual	Manual	-	Manual	Manual
	-	-	-	-	-	-	Copy catalog	Copy catalog	-	-	-	-
	-	-	-	-	Web base	Web base	-	Web base	Web base	-	-	Web base
	-	-	Software generated	-	-	-	-	-	-	-	-	-
Source of Copy cataloguing	-	World Cat	-	-	-	-	-	World Cat	-	-	-	World Cat
	-	Ind Cat	Ind Cat	-	-	-	Ind Cat	-	-	-	-	-
	-	Web Opac	Web Opac	Web Opac	Web Opac	Web Opac	-	-	Web Opac	Web Opac	-	Web Opac
	-	-	-	-	-	-	Library of congress	-	-	-	-	As per convenience
Cataloguing e-resources	-	AACR2	-	AACR2	-	AACR2	-	AACR2	AACR2	AACR2	-	AACR2
	-	-	MARC	-	MARC	-	MARC	MARC	-	-	MARC	-
	-	-	Metadata	-	-	-	Metadata	-	-	-	-	-
Separate technical cell	√	√	√	√	√	√	√	√	x	x	x	√
Number of manpower engaged	6	7	8	8	6	2	3	2	2	2	3	3
Average time (days) required for processing 100 books	3	2	2	2	3	2	2	3	10	7	3	2
Engage any more staff to speed up	x	√	√	x	x	x	x	x	x	x	x	x

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table 24 shows that:

For technical processing, the manual classification procedure is adopted in the libraries of TU, GU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU. The web based classification procedure is adopted in the library of AU, TU, BU, KKHSOU, ADBUAZ and KU.

Classification scheme used by all university libraries are DDC.

Manual cataloguing procedure is being used by libraries of TU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO, ADTU and KU. Libraries using web OPAC source of copy cataloguing by KKHSOU and ADBUAZ.

Web base cataloguing is used by libraries of AAU, BU, ADBUAZ, ADBUSO and KU. GU library using inbuilt software generated cataloging procedure in practice.

World Cat is used as a source of copy cataloging by the libraries of TU, ADBUAZ and KU. TU, GU and KKHSOU library is using Ind Cat as a source of copy cataloging. Web OPAC is used as a source of copy cataloging by the libraries of TU, GU, DU, AAU, BU, ADBUSO, ADBUKH and KU. Library of Congress Catalogue is used as a source of copy cataloging by the KKHSOU library. ADTU library used other sources as per their own convenience to copy cataloging.

Libraries using standard of cataloguing e-resources is AACR2 by TU, DU, BU, ADBUAZ, ADBUSO, ADBUKH and KU; and MARC by GU, AAU, KKHSOU, ADBUAZ and ADTU. Libraries using Metadata to cataloguing e-resources are GU and KKHSOU.

5.1.11.1 Separate cell for technical processing

AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ and KU have their separate technical processing cell in their library. The libraries of ADBUSO, ADBUKH and ADTU do not have their separate technical processing cell.

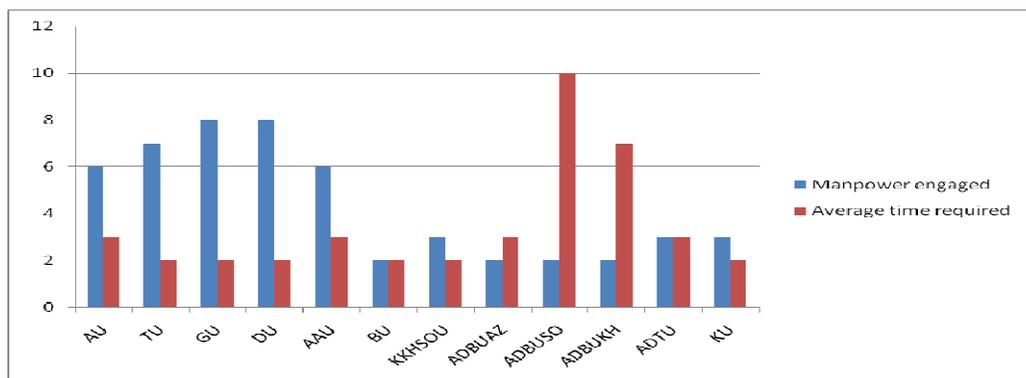


Figure 27 Manpower engaged and average time required for technical processing

Table number 24 and figure number 27 shows that the libraries of AU, TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU have engaged varying strength of manpower in the separate technical cells. The average time required for processing per 100 books by the technical cell are two to three days in general but 3,2,2,2,3,2,2,3,10,7,3 and 2 days respectively. It is seen that library staff do technical operation in less time is highest in BU with manpower and time ratio is 2:2 and lowest in ADBUSO which manpower and time ratio is 2:10. In case of bulk purchase of books the libraries of TU and GU engaged more staff to speed up the process. AU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU library no more engaged any staff to speed up the process.

5.1.12 Organization of Resources

University	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Software used for library automation	KOHA	LIBSYS	SOUL	SOUL	KOHA	SOUL	SOUL	KOHA	KOHA	KOHA	Own software	KOHA
Anti-plagiarism software	√	√	√	√	X	√	√	√	√	√	√	x
Name of the software using	URKUND	URKUND	URKUND	URKUND	X	URKUND	URKUND	Grammarly	Grammarly	Grammarly	URKUND	x
Digital library of e-collection	-	√	√	on Process	√	x	√	√	√	√	√	x
Digital library	D Space	D Space	D Space	D Space	D Space	x	D Space	D Space	D Space	D Space	-	x

software using												
Using Barcode/RFID technology	Barcode	Barcode	Barcode	Barcode	Barcode & RFID	Barcode	RFID	x	x	Barcode	Barcode	Barcode

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table 25 shows that:

The library software LIBSYS is used by TU for organization of resources which is 8.33% of total population. Another 8.33% library, namely ADTU used own library automation software. SOUL is being used by GU, DU, BU and KKHSOU library which is 33.33% of total libraries. Half of the libraries under study, i.e. AU, AAU, ADBUAZ, ADBUSO, ADBUKH and KU used KOHA for this purpose.

83.33% university libraries are using anti plagiarism software. URKUND is being used by AU, TU, GU, DU, BU, KKHSOU and ADTU as anti-plagiarism software. The software Grammarly is using by ADBUAZ, ADBUSO and ADBUKH to manage e-resources. AAU and KU have no such information of use of software for managing their e-resources.

Libraries of AU, DU, AAU, BU, KKHSOU and ADBUKH have done retro conversion. GU, ADBUAZ, ADBUSO and ADTU library have not done the retro conversion till now.

The DU library organizes CD ROM collection according to accession number. AAU library organizes CD ROM collection in CIRC (cross interleaved reed-Solomon code). KKHSOU library do not organize the CD ROM collection. The ADBUAZ library organizes CD ROM collection according to subject wise. Alphanumeric method is being used by the library of ADBUSO. ADTU library organizes CD ROM collection according to its own convenience.

TU, GU, AAU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH and ADTU library have their digital library of e-collection. DU library is on process of its digital library of e-collection. BU and KU library do not have their digital library of e-collection till now.

The digital library software D-Space is being used by the libraries of AU, TU, GU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO and ADBUKH.

Libraries using bar coding technology are AU, TU, GU, DU, AAU, BU, ADBUKH, ADTU and KU. ADBUAZ and ADBUSO library do not used bar coding technology. RFID technology is being used by libraries of AAU and KKHSOU. ADBUAZ and ADBUSO library do not used RFID technology.

Alphabetical arrangement used by the libraries of DU, AAU, ADBUKH and KU to organize the printed journal. The libraries of TU, GU, ADBUAZ and ADTU used classified arrangement to organize the printed journal.

The libraries of GU, DU, ADBUSO, ADTU and KU organized the electronic resources. AAU, BU, KKHSOU, ADBUAZ and ADBUKH libraries have not organized the electronic resources till now. DU, ADBUSO and KU libraries follow an integrated OPAC for print and e-resources. ADTU library do not follow an integrated OPAC for print and e-resources. ADBUAZ and ADTU library used classified methods to organized electronic resources.

5.1.13 Access to Library Collection

University	Method of providing access to printed resources			Way of providing access to e-resources			Access technologies in use		
AU	-	-	Web OPAC	-	-	-	-	-	-
TU	-	OPAC	Web OPAC	Inside the library	Through campus network	-	IP address	-	-
GU	-	OPAC	Web OPAC	Inside the library	Through campus network	Internet	IP address	Proxy Server	Access through cloud
DU	-	-	Web OPAC	Inside the library	Through campus network	-	IP address	Proxy Server	-
AAU	Library	OPAC	Web	Inside the	Through campus	-	IP	-	EzProxy

	catalogue		OPAC	library	network		address		
BU	-	OPAC	-	-	-	-	-	-	-
KKHSOU	Library catalogue	OPAC	-	Inside the library	-	Internet	IP address	-	-
ADBUAZ	-	-	Web OPAC	Inside the library	Through campus network	Internet	IP address	Proxy Server	-
ADBUSO	-	-	Web OPAC	Inside the library	Through campus network	Internet	IP address	-	-
ADBUKH	-	-	Web OPAC	-	Through campus network	Internet	-	Proxy Server	-
ADTU	-	OPAC	-	-	-	Internet	-	Proxy Server	-
KU	-	-	Web OPAC	-	Through campus network	-	IP address	-	-

(-) denotes Not Applicable

Table number 26 stated that:

The library catalogue is used by AAU and KKHSOU library to provide access to printed resources. OPAC is used by TU, GU, AAU, BU, KKHSOU and ADTU library to provide access to printed resources. AU, TU, GU, DU, AAU, ADBUAZ, ADBUSO, ADBUKH and KU library is using Web OPAC for providing access to printed resources.

TU, GU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO library provided access to e-resources inside the library only. TU, GU, DU, AAU, ADBUAZ, ADBUSO, ADBUKH and KU library provide access to e-resources throughout the campus through LAN. GU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH and ADTU libraries provided access to e-resources through Internet. TU, GU, DU, AAU, KKHSOU, ADBUAZ, ADBUSO and KU library give access to databases through institutional IP address. GU, DU, ADBUAZ, ADBUKH and ADTU library give proxy server based

access to the databases. GU library give access to databases by remote access through cloud too. AAU library give access to databases by EzProxy also.

5.1.14 Library Services

Table 27 Library Services													
Library Services	Type	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Inter Library Loan	Manual	x	-	√	-	√	x	x	x	x	x	x	x
	Online	x	√	√	√	√	x	x	x	x	x	x	x
Reference Service	Manual	√	-	√	√	√	√	√	√	√	-	√	√
	Online	-	√	-	-	√	-	√	-	-	-	√	-
Referral Service	Manual	-	-	-	√	-	√	-	-	√	-	√	√
	Online	-	√	√	√	-	-	-	-	√	-	-	√
Selective Dissemination of Information	Manual	-	-	√	-	-	√	√	√	-	-	√	√
	Online	-	-	-	-	-	-	√	-	-	-	√	√
Document Delivery Service	Manual	-	-	-	-	√	-	-	√	-	-	√	-
	Online	-	√	√	√	√	-	-	-	-	-	√	-
Bibliography Service	Manual	-	-	-	-	√	-	-	√	√	-	√	√
	Online	-	√	√	√	-	-	-	-	√	-	√	-
Indexing/ Abstracting service	Manual	-	-	-	-	√	-	-	√	√	-	√	-
	Online	-	√	√	-	-	-	-	-	-	-	-	-
Aggregator Service	Manual	-	-	-	-	-	-	-	-	-	-	√	-
	Online	-	-	-	√	-	-	-	-	-	-	-	-
Current Awareness Service	Manual	-	-	√	-	√	√	√	√	√	-	√	√
	Online	√	√	-	√	√	-	√	-	√	-	√	√
Library Portal base service	Manual	-	-	-	-	-	-	-	-	√	-	√	√
	Online	√	√	-	√	-	-	√	√	√	-	√	-
Reprographic Service	Manual	-	√	√	√	√	√	√	-	-	-	√	√

(√) denotes Yes, (x) denotes No, (-) denotes Not Applicable

Table number 27 stated regarding *library services* that:

- The university libraries providing online inter library loan facility for library collection with other libraries are TU, GU, DU and AAU, among them GU and AAU library offer manual inter library loan facility also. Libraries of AU, BU,

KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU do not have their interlibrary loan facility.

- AU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADTU and KU libraries offering manual reference service. Online reference service is being offered by TU, AAU, KKHSOU and ADTU.
- Manual referral service is provided by libraries of DU, BU, ADBUSO, ADTU and KU. Online referral service is provided by libraries of TU, GU, DU, ADBUSO and KU.
- Manual selective dissemination of information service provide by the library of GU, BU, KKHSOU, ADBUAZ, ADTU and KU. KKHSOU, ADTU and KU library provide online selective dissemination of information service.
- Manual document delivery service provide by the libraries of AAU, ADBUAZ and ADTU. Online document delivery service provide by the libraries of TU, GU, DU, AAU and ADTU.
- Manual bibliography services provide by AAU, ADBUAZ, ADBUSO, ADTU and KU library. Online bibliography services or web bibliography services provide by the libraries of TU, GU, DU, ADBUSO and ADTU.
- Manual indexing and abstracting service provide by AAU, ADBUAZ, ADBUSO and ADTU library. Online indexing and abstracting service provide by the libraries of TU and GU.
- Manual aggregator service is provided by ADTU library. Online aggregator service is provided by DU library.
- Manual current awareness service is offered by GU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADTU and KU library. Online current awareness service is being offered by AU, TU, DU, AAU, KKHSOU, ADBUSO, ADTU and KU library.
- Manual library portal base services are provided by the libraries of ADBUSO, ADTU and KU. Online library portal base services are provided by the libraries of AU, TU, DU, KKHSOU, ADBUAZ, ADBUSO and ADTU.

- Reprographic service is provided by the libraries of TU, GU, DU, AAU, BU, KKHSOU, ADTU and KU.

It is seen that TU, GU, DU and AAU library which is 33.33% have their inter library loan and resource sharing facilities, among them Tezpur university library is sharing their resources with DELNET and American Centre. Gauhati university library is sharing their resources with INFLIBNET through JCCC. Dibrugarh university library is sharing their resources electronically with INFLIBNET by Ind Cat and JCCC. Assam Agricultural University library is sharing its resources with all AAU libraries. The libraries do not have their inter library loan and resource sharing facilities are AU, BU, KKHSOU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU which is 66.66% of total libraries.

5.1.15 Maintenance of Collection

University	Physical preservation method in use			Stock verification method used	Frequency of stock verification	Disciplinary action taken for missing/mutilated collection	Weeding policy	Frequency of weeding out
	Repair and binding	Pest control	Digital Preservation					
AU	-	-	-	-	Yearly	-	√	-
TU	√	-	-	Accession Register & Shelf list	3 years	Replace the book	x	x
GU	√	√	√	Accession Register	4 years	Replace the book	√	More than 5 years
DU	√	√	-	Accession Register	3 years	Replace the book	√	Need base
AAU	√	-	-	Accession Register	3 years	Charge defaulters	x	x
BU	√	-	-	Accession Register	1-2 years	Replace the book	x	x
KKHSOU	√	√	-	RFID Technology in future	x	Charge defaulters /Replace the book	x	x
ADBUAZ	√	-	-	Accession Register & Shelf list	1-2 years	Replace the book	√	3 years
ADBUSO	√	-	√	Accession	1-2 years	Charge defaulters	√	More than

				Register & Shelf list				5 years
ADBUKH	-	-	-	Shelf list	1-2 years	Charge defaulters /Replace the book	v	5 years
ADTU	v	-	v	Accession Register	1-2 years	Replace the book	x	x
KU	v	-	-	Accession Register	1-2 years	Charge defaulters/Replace the book/Block Issue	x	x

(v) denotes Yes, (x) denotes No, (-) denotes Not Applicable

5.1.15.1 Physical Preservation

Table number 28 stated that repair and binding as a physical method of preservation is applied by the libraries of TU, GU, DU, AAU, BU, KKHSOU, ADBUAZ, ADBUSO, ADTU and KU. The libraries of GU, DU and KKHSOU applied pest control as a preservation method. Digital preservation as a physical method of preservation is applied by the libraries of GU, ADBUSO and ADTU.

5.1.15.2 Stock Verification

It is seen from table number 28 that shelf list as a method adopted for stock verification in the libraries of TU, ADBUAZ, ADBUSO and ADBUKH. The libraries of TU, GU, DU, AAU, BU, ADBUAZ, ADBUSO, ADTU and KU using the method for stock verification is accession register. KKHSOU library is planning to adopt the method for stock verification with RFID technology in future. AU, BU, ADBUAZ, ADBUSO, ADBUKH, ADTU and KU library implement stock verification in one to two years. Libraries of TU, DU and AAU implement stock verification in three years. GU library implement stock verification in four years. KKHSOU library is not implemented stock verification till now.

5.1.15.3 Disciplinary action taken for missing and mutilated collection

Table number 28 stated that AAU, KKHSOU, ADBUSO, ADBUKH and KU library charges defaulters with the current price of the book plus processing cost as disciplinary action for missing and mutilated collection by users. Disciplinary action of replacement of the lost or damaged book with the current edition of book is the procedure adopted by TU, GU, DU, BU, KKHSOU, ADBUAZ, ADBUKH, ADTU

and KU library. DU library charges the defaulters with ten times of the cost of the book if not replaced by the current edition. Block the issue of library resources as a disciplinary action taken for missing and mutilated collection by KU library.

5.1.15.4 Weeding Policy

It is seen from table number 28 that the AU, GU, DU, ADBUAZ, ADBUSO and ADBUKH library have their weeding policy on the other hand the libraries of TU, AAU, BU, KKHSOU, ADTU and KU do not have till now. Three years of frequency for weeding out is implemented by ADBUAZ library. Frequency for weeding out implemented by ADBUKH library is five years. GU and ADBUSO library implemented weeding out in more than five years. The DU library implemented weeding out on a need base requirement.

5.2 ANALYSIS FROM USERS DATA

5.2.1 User Response

Table 29 University wise user responses						
University	Total Questionnaire Distributed	No Response	Faculty	Research Scholar	Student	Total Response
AU	50	2	38	9	1	48
	100%	4%	76%	18%	2%	96%
TU	50	2	18	17	13	48
	100%	4%	36%	34%	26%	96%
GU	50	2	16	19	13	48
	100%	4%	32%	38%	26%	96%
DU	50	2	22	13	13	48
	100%	4%	44%	26%	26%	96%
AAU	50	6	37	3	4	44
	100%	12%	74%	6%	8%	88%
BU	50	3	27	6	14	47
	100%	6%	54%	12%	28%	94%
KKHSOU	50	10	24	16	0	40
	100%	20%	48%	32%	0%	80%
ADBUAZ	50	9	19	14	8	41
	100%	18%	38%	28%	16%	82%

ADBUSO	50	6	19	20	5	44
	100%	12%	38%	40%	10%	88%
ADBUKH	50	10	6	0	34	40
	100%	20%	12%	0%	68%	80%
ADTU	50	2	12	10	26	48
	100%	4%	24%	20%	52%	96%
KU	50	8	32	1	9	42
	100%	16%	64%	2%	18%	84%
Total	600	62	270	128	140	538
	100%	10.33%	45%	21.33%	23.33%	89.67%

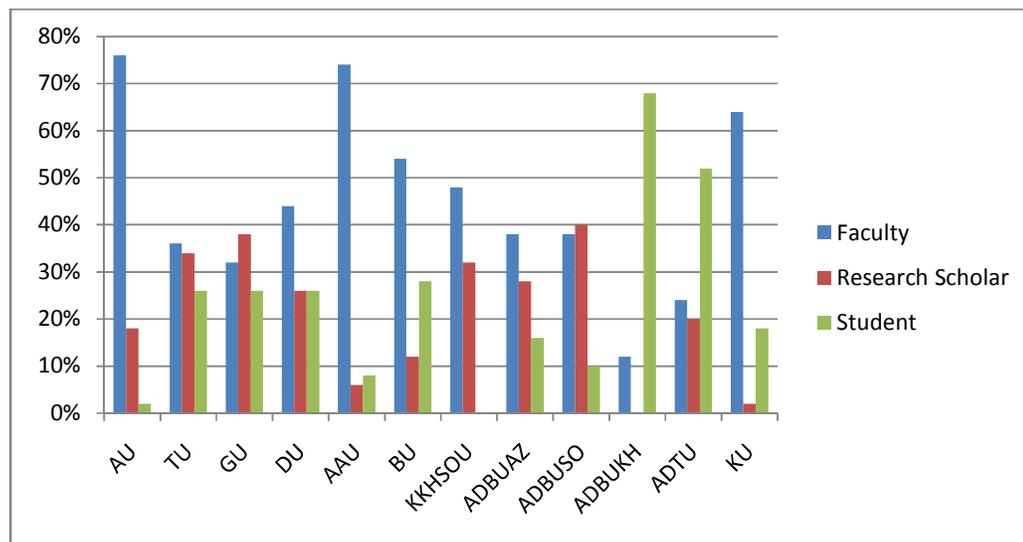


Figure 28 University wise user responses

Table number 29 and figure number 28 represents the pattern of responses received out of fifty distributed questionnaire to various types of users in each university libraries. Four to six percent users of six university libraries have not responded are AU, TU, GU, DU BU and ADTU. The rate of non-responding users is 12% in AAU and ADBUSO whereas the non-response rate of rest is ranging between 16% to 20%. Responses received from faculty users are highest in AU (76%), AAU (74%) and KU (64%). The same for the rest are moderate to low. Response from research scholar in ADBUKH is nil. The same of post graduate (PG)/ under graduate (UG) students from

AU is lowest with only 2% and highest in ABDUKH with 68% in comparison to other university where it is comparatively good.

Out of 600 distributed questionnaire percentage of non-respondent are 10.33% and 89.67% collected where *faculty* is 45% *research scholar* is 21.33% and *student* is 23.33% among the universities.

5.2.2 User Gender

Table 30 University wise user gender			
University	Male	Female	Total
AU	33	15	48
	68.8%	31.3%	100.0%
TU	36	12	48
	75.0%	25.0%	100.0%
GU	35	13	48
	72.9%	27.1%	100.0%
DU	37	11	48
	77.1%	22.9%	100.0%
AAU	30	14	44
	68.2%	31.8%	100.0%
BU	27	20	47
	57.4%	42.6%	100.0%
KKHSOU	17	23	40
	42.5%	57.5%	100.0%
ADBUAZ	22	19	41
	53.7%	46.3%	100.0%
ADBUSO	24	20	44
	54.5%	45.5%	100.0%
ADBUKH	23	17	40
	57.5%	42.5%	100.0%
ADTU	28	20	48
	58.3%	41.7%	100.0%
KU	30	12	42
	71.4%	28.6%	100.0%
Total	342	196	538
	63.6%	36.4%	100.0%

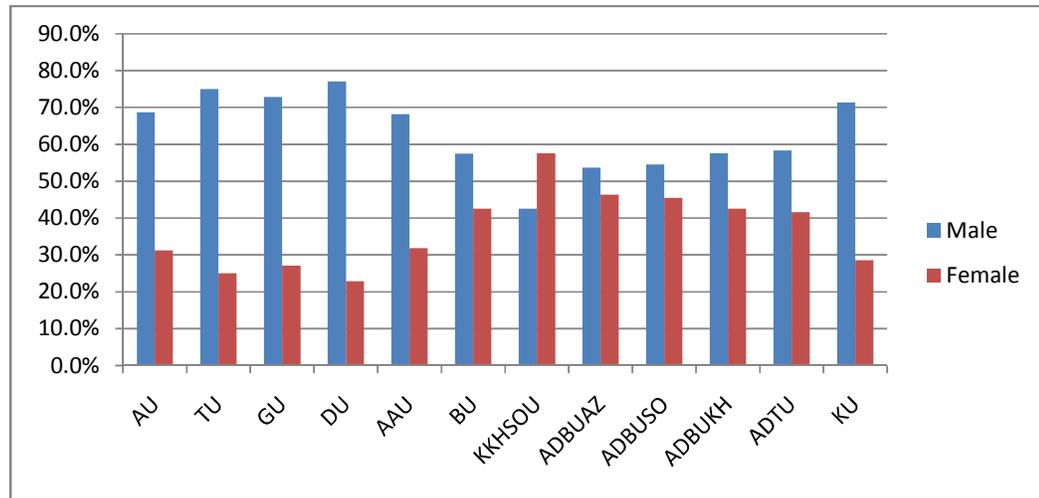


Figure 29 University wise user gender

Table number 30 and figure number 29 shows that:

- Highest number of *male respondent* found in DU is 77.1% followed by TU is 75.0% and GU is 72.9% as second and third position and lowest number found in KKHSOU is 42.5%.
- Highest number of *female respondent* found in KKHSOU is 57.5% followed by ADBUAZ is 46.3% and ADBUSO is 45.5% as second and third and lowest number found in DU is 22.9%.

In totality highest number of respondents are *male* (63.6%) and lowest are *female* (36.4%) among the responses receives from selected universities of Assam.

5.2.2.1 Gender wise category of users

Universities	User Gender	Faculties	Research Scholars	Students (PG/UG)	Total
AU	M	28	5	0	33
		84.8%	15.2%	0.0%	100.0%
	F	10	4	1	15
		66.7%	26.7%	6.7%	100.0%

TU	M	16	11	9	36
		44.4%	30.6%	25.0%	100.0%
	F	2	6	4	12
		16.7%	50.0%	33.3%	100.0%
GU	M	15	12	8	35
		42.9%	34.3%	22.9%	100.0%
	F	1	7	5	13
		7.7%	53.8%	38.5%	100.0%
DU	M	16	8	13	37
		43.2%	21.6%	35.1%	100.0%
	F	6	5	0	11
		54.5%	45.5%	0.0%	100.0%
AAU	M	26	0	4	30
		86.7%	0.0%	13.3%	100.0%
	F	11	3	0	14
		78.6%	21.4%	0.0%	100.0%
BU	M	18	3	6	27
		66.7%	11.1%	22.2%	100.0%
	F	9	3	8	20
		45.0%	15.0%	40.0%	100.0%
KKHSOU	M	9	8	0	17
		52.9%	47.1%	0.0%	100.0%
	F	15	8	0	23
		65.2%	34.8%	0.0%	100.0%
ADBUAZ	M	10	6	6	22
		45.5%	27.3%	27.3%	100.0%
	F	9	8	2	19
		47.4%	42.1%	10.5%	100.0%
ADBUSO	M	11	10	3	24
		45.8%	41.7%	12.5%	100.0%
	F	8	10	2	20
		40.0%	50.0%	10.0%	100.0%
ADBUKH	M	5	0	18	23
		21.7%	0.0%	78.3%	100.0%
	F	1	0	16	17
		5.9%	0.0%	94.1%	100.0%
ADTU	M	10	6	12	28
		35.7%	21.4%	42.9%	100.0%
	F	2	4	14	20
		10.0%	20.0%	70.0%	100.0%

KU	M	23	0	7	30
		76.7%	0.0%	23.3%	100.0%
	F	9	1	2	12
		75.0%	8.3%	16.7%	100.0%
Total	M	187	69	86	342
		54.7%	20.2%	25.1%	100.0%
	F	83	59	54	196
		42.3%	30.1%	27.6%	100.0%

(M) denotes Male, (F) denotes Female

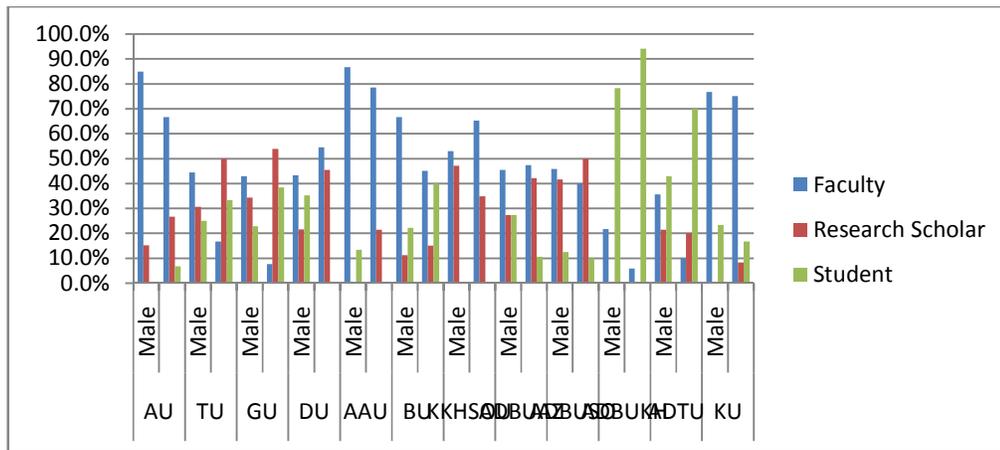


Figure 30 Gender wise user categories

Table number 30.1 and figure number 30 stated that:

- Highest number of *male faculty* respondent found in AAU is 86.7%, followed by AU is 84.8% and KU is 76.7% and lowest with ADBUKH is 21.7%
- *Male research scholar* found highest in KKHSOU is 47.1%, followed by ADBUSO is 41.7% and GU is 34.3% and lowest number found in AAU, ADBUKH and KU is 0% each.
- Highest number of *male student* found in ADBUKH is 78.3%, followed by ADTU 42.9% and DU 35.1% and lowest number found in AU and KKHSOU is 0% each.

- Highest number of *female faculty* as respondent found in AAU is 78.6%, followed by KU is 75.0% and AU is 66.7% and lowest with ADBUKH is 5.9% each.
- *Female research scholar* found highest in GU is 53.8%, followed by TU and ADBUSO is 50.0% each and lowest female research scholar found in ADBUKH is 0%.
- Highest number of *female student* found in ADBUKH is 94.1%, followed by ADTU 70.0% and BU is 40.0% lowest number found in DU, AAU and KKHSOU is 0% each.

Highest *male user* represented by faculty is 54.7% followed by student is 25.1% and research scholar is 20.2%. Highest *female user* represented by faculty is 42.3% followed by research scholar is 30.1% and student is 27.6% among the universities.

5.2.3 User Age Group

University	20-30	31-40	41-50	Above 50	Total
AU	9	20	14	5	48
	18.8%	41.7%	29.2%	10.4%	100.0%
TU	26	9	9	4	48
	54.2%	18.8%	18.8%	8.3%	100.0%
GU	22	13	7	6	48
	45.8%	27.1%	14.6%	12.5%	100.0%
DU	15	13	14	6	48
	31.3%	27.1%	29.2%	12.5%	100.0%
AAU	5	7	17	15	44
	11.4%	15.9%	38.6%	34.1%	100.0%
BU	17	19	10	1	47
	36.2%	40.4%	21.3%	2.1%	100.0%

KKHSOU	1	29	10	0	40
	2.5%	72.5%	25.0%	0.0%	100.0%
ADBUAZ	8	20	9	4	41
	19.5%	48.8%	22.0%	9.8%	100.0%
ADBUSO	11	21	9	3	44
	25.0%	47.7%	20.5%	6.8%	100.0%
ADBUKH	34	1	5	0	40
	85.0%	2.5%	12.5%	0.0%	100.0%
ADTU	26	20	2	0	48
	54.2%	41.7%	4.2%	0.0%	100.0%
KU	29	10	3	0	42
	69.0%	23.8%	7.1%	0.0%	100.0%
Total	203	182	109	44	538
	37.7%	33.8%	20.3%	8.2%	100.0%

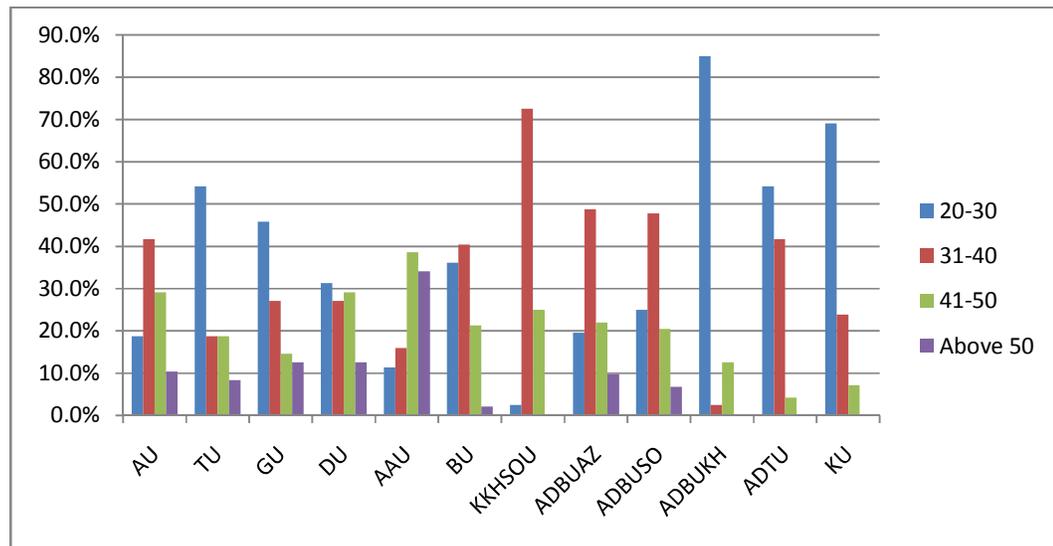


Figure 31 Users age group

Table 31 and figure number 31 showed *respondents according to their age group* that:

- Highest number of users from *20-30 age group* is found in ADBUKH is 85.0% followed by KU is 69.0% as second and TU and ADTU is 54.2% each as third and lowest number found from KKHSOU is 2.5%.
- Highest number of users from *31-40 age groups* is found in KKHSOU is 72.5% followed by ADBUAZ is 48.8% as second and ADBUSO is 47.7% as third and lowest number found from ADBUKH is 2.5%.
- Highest users from *41-50 age group* is represented by the university of AAU is 38.61% followed by DU and AU is 29.2% each and lowest by ADTU is 4.2%.
- Highest number of users from *above 50 age groups* is found in AAU is 34.1% followed by GU and DU with 12.5%. No user found from *above 50* years of age group in KKHSOU, ADBUKH, ADTU and KU.

Maximum number of users responded from the *age group 20-30* is 37.7% followed by *age group 31-40* is 33.8% as second and *age group 41-50* is 20.3% as third and lowest from the *age group is above 50* is 8.2% among the universities.

5.2.4 Library Use

University	Yes	No	Total
AU	48	0	48
	100.0%	0.0%	100.0%
TU	47	1	48
	97.9%	2.1%	100.0%
GU	47	1	48
	97.9%	2.1%	100.0%
DU	48	0	48
	100.0%	0.0%	100.0%

AAU	44	0	44
	100.0%	0.0%	100.0%
BU	47	0	47
	100.0%	0.0%	100.0%
KKHSOU	40	0	40
	100.0%	0.0%	100.0%
ADBUAZ	41	0	41
	100.0%	0.0%	100.0%
ADBUSO	44	0	44
	100.0%	0.0%	100.0%
ADBUKH	40	0	40
	100.0%	0.0%	100.0%
ADTU	48	0	48
	100.0%	0.0%	100.0%
KU	42	0	42
	100.0%	0.0%	100.0%
Total	536	2	538
	99.6%	0.4%	100.0%

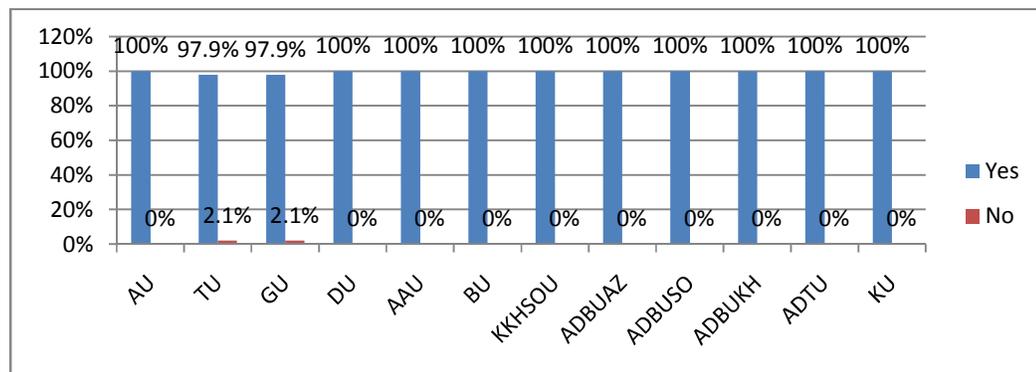


Figure 32 University wise library use

Table 32 and figure number 32 shows that all the respondents across the universities are regular user of library facility except TU and GU is 97.9% each.

Respondent who do not use the library is found in TU and GU is 2.1% each. Maximum number of respondent use the library is 99.6% and minimum number of respondent who do not use the library is 0.4% in all universities.

5.2.4.1 Reason for not using the library

Reason behind not using the library is found from TU and GU libraries; is sufficient personal collection and more depends on the internet is 0.4% among all universities.

5.2.5 Frequency of using the library

University	Not Applicable	Daily	Twice in a Week	Once in a Week	Occasionally	Total
AU	0	18	14	11	5	48
	0.0%	37.5%	29.2%	22.9%	10.4%	100.0%
TU	1	14	12	7	14	48
	2.1%	29.2%	25.0%	14.6%	29.2%	100.0%
GU	1	24	15	4	4	48
	2.1%	50.0%	31.3%	8.3%	8.3%	100.0%
DU	0	23	10	11	4	48
	0.0%	47.9%	20.8%	22.9%	8.3%	100.0%
AAU	0	18	12	4	10	44
	0.0%	40.9%	27.3%	9.1%	22.7%	100.0%
BU	0	11	14	12	10	47
	0.0%	23.4%	29.8%	25.5%	21.3%	100.0%
KKHSOU	0	11	10	11	8	40
	0.0%	27.5%	25.0%	27.5%	20.0%	100.0%
ADBUAZ	0	12	9	13	7	41
	0.0%	29.3%	22.0%	31.7%	17.1%	100.0%
ADBUSO	0	13	14	5	12	44
	0.0%	29.5%	31.8%	11.4%	27.3%	100.0%
ADBUKH	0	11	8	15	6	40
	0.0%	27.5%	20.0%	37.5%	15.0%	100.0%
ADTU	0	9	11	14	14	48
	0.0%	18.8%	22.9%	29.2%	29.2%	100.0%

KU	0	10	9	6	17	42
	0.0%	23.8%	21.4%	14.3%	40.5%	100.0%
Total	2	174	138	113	111	538
	0.4%	32.3%	25.7%	21.0%	20.6%	100.0%

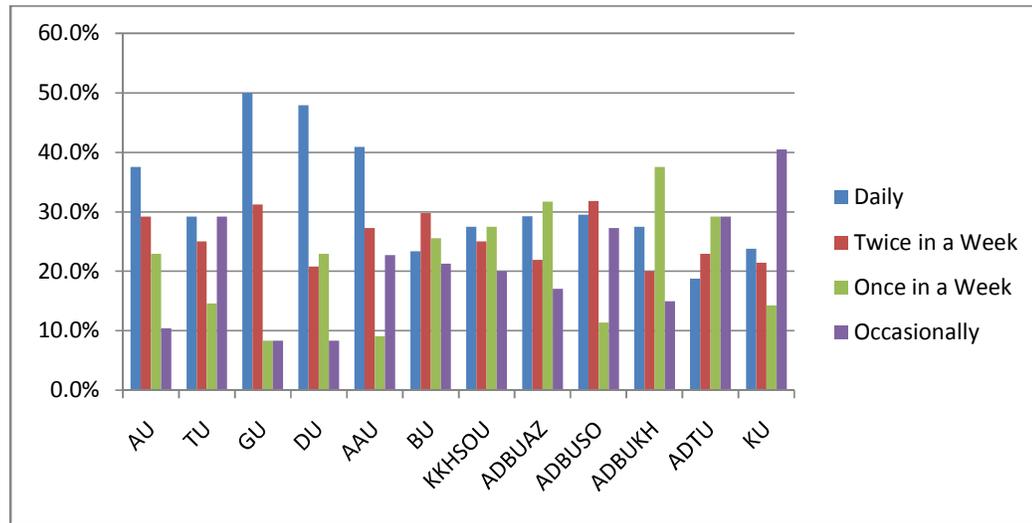


Figure 33 Frequency of using the library

Table 33 and figure number 33 showed that *user use the library-*

- In AU highest number as *daily* is 37.5% followed by *twice in a week* is 29.2% as second and lowest as *occasionally* is 10.4%.
- In TU highest number as *daily* and *occasionally* is 29.2% as first followed by *twice in a week* is 25.0% as second and lowest as *once in a week* is 14.6%.
- In GU highest number as *daily* is 50.0% followed by *twice in a week* is 31.3% as second and lowest as *once in a week* and *occasionally* is 8.3%.
- In DU highest number as *daily* is 47.9% followed by *once in a week* is 22.9% as second and lowest as *occasionally* is 8.3%.
- In AAU highest number as *daily* is 40.9% followed by *twice in a week* is 27.3% as second and lowest as *once in a week* is 9.1%.
- In BU highest number as *twice in a week* is 29.8% followed by *once in a week* is 25.5% as second and lowest as *occasionally* is 21.3%.

- In KKHSOU highest number as *daily* and *once in a week* is 27.5% each followed by *twice in a week* is 25.0% as second and lowest as *occasionally* is 20.0%.
- In ADBUAZ highest number as *once in a week* is 31.7% followed by *daily* is 29.3% as second and lowest as *occasionally* is 17.1%.
- In ADBUSO highest number as *twice in a week* is 31.8% followed by *daily* is 29.5% as second and lowest as *once in a week* is 11.4%.
- In ADBUKH highest number as *once in a week* is 37.5% followed by *daily* is 27.5% as second and lowest as *occasionally* is 15.0%.
- In ADTU highest number as *once in a week* and *occasionally* is 29.2% each followed by *twice in a week* is 22.9% as second and lowest as *daily* is 18.8%.
- In KU highest number as *occasionally* is 40.5% followed by *daily* is 23.8% as second and lowest as *once in a week* is 14.3%.

It is seen from table number 33 regarding *frequency of using the library* that:

- Highest number of *daily user* found in GU is 50.0% followed by DU and AAU with 47.9% and 40.9% respectively in 2nd and 3rd position and lowest number found in ADTU is 18.8%
- User who use the library *twice in a week* found highest with ADBUSO is 31.8% followed by GU with 31.3% as second, BU with 29.8% as third and lowest is ADBUKH is 20.0%.
- 37.5% users of ADBUKH use the library *once in a week* found as highest followed by ADBUAZ with 31.7% and ADTU with 29.2% as second and third and found lowest with GU is 8.3%.
- Library using pattern as *occasionally* found highest in KU is 40.5% followed by TU and ADTU is 29.2% each as second and ADBUSO is 27.3% as third position where lowest is GU and DU having 8.3% each.

Frequency of using the library *daily* is 32.3% as highest followed by *twice in a week* with 25.7% and *once in a week* with 21.0% and lowest as *occasionally* is 20.6% among the university libraries.

5.2.6 Purpose of using the Printed Resources

Table 34 University wise purpose of using the printed resources (Priority)								
University	Priority	Not Applicable	Teaching	Research	Publication	Keep update	To Study	Total
AU	Priority1	0	12	19	7	7	3	48
	Priority2	4	10	6	11	5	12	48
	Priority3	5	8	12	9	6	8	48
TU	Priority1	9	9	17	6	4	3	48
	Priority2	16	7	5	11	6	3	48
	Priority3	20	2	5	8	4	9	48
GU	Priority1	3	8	19	7	3	8	48
	Priority2	14	5	7	11	7	4	48
	Priority3	18	2	5	9	1	13	48
DU	Priority1	1	14	10	10	4	9	48
	Priority2	10	4	15	11	2	6	48
	Priority3	16	3	3	10	7	9	48
AAU	Priority1	1	21	3	7	6	6	44
	Priority2	2	9	16	5	4	8	44
	Priority3	7	2	8	16	2	9	44
BU	Priority1	1	8	10	10	7	11	47
	Priority2	11	11	7	9	5	4	47
	Priority3	20	3	10	4	2	8	47
KKHSOU	Priority1	0	10	11	10	8	1	40
	Priority2	4	9	9	7	7	4	40

	Priority3	12	1	6	6	8	7	40
ADBUAZ	Priority1	1	6	11	10	7	6	41
	Priority2	7	10	7	8	5	4	41
	Priority3	13	2	9	3	5	9	41
ADBUSO	Priority1	1	8	19	9	2	5	44
	Priority2	8	6	8	13	6	3	44
	Priority3	12	4	6	8	9	5	44
ADBUKH	Priority1	11	3	1	3	2	20	40
	Priority2	19	3	4	2	10	2	40
	Priority3	30	1	3	2	3	1	40
ADTU	Priority1	9	5	6	10	4	14	48
	Priority2	17	6	3	4	13	5	48
	Priority3	31	1	3	5	4	4	48
KU	Priority1	5	6	4	9	10	8	42
	Priority2	6	19	1	3	8	5	42
	Priority3	13	3	15	1	1	9	42
Total	Priority1	42	110	130	98	64	94	538
	Priority2	118	99	88	95	78	60	538
	Priority3	197	32	85	81	52	91	538

Table 34.1 University wise purpose of using the printed resources (WMS&R)						
University	WMS&R	Teaching	Research	Publication	Keep update	To Study
AU	W. M. S.	1.333	1.688	1.083	0.771	0.854
	R	2	1	3	5	4
TU	W. M. S.	0.896	1.375	1.00	0.583	0.5
	R	3	1	2	4	5

GU	W. M. S.	0.75	1.583	1.083	0.5	0.938
	R	4	1	2	5	3
DU	W. M. S.	1.104	1.313	1.292	0.479	1.000
	R	3	1	2	5	4
AAU	W. M. S.	1.886	1.114	1.068	0.636	0.977
	R	1	2	3	5	4
BU	W. M. S.	1.043	1.149	1.106	0.702	1.043
	R	3	1	2	5	3
KKHSOU	W. M. S.	1.225	1.425	1.25	1.15	0.45
	R	3	1	2	4	5
ADBUAZ	W. M. S.	0.976	1.366	1.195	0.878	0.854
	R	3	1	2	4	5
ADBUSO	W. M. S.	0.909	1.795	1.386	0.614	0.591
	R	3	1	2	4	5
ADBUKH	W. M. S.	0.4	0.35	0.375	0.725	1.625
	R	3	5	4	2	1
ADTU	W. M. S.	0.583	0.563	0.896	0.875	1.167
	R	4	5	2	3	1
KU	W. M. S.	1.405	0.69	0.81	1.119	1.024
	R	1	5	4	2	3
Total	W. M. S.	1.041	1.21	1.05	0.743	0.916
	R	3	1	2	5	4

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

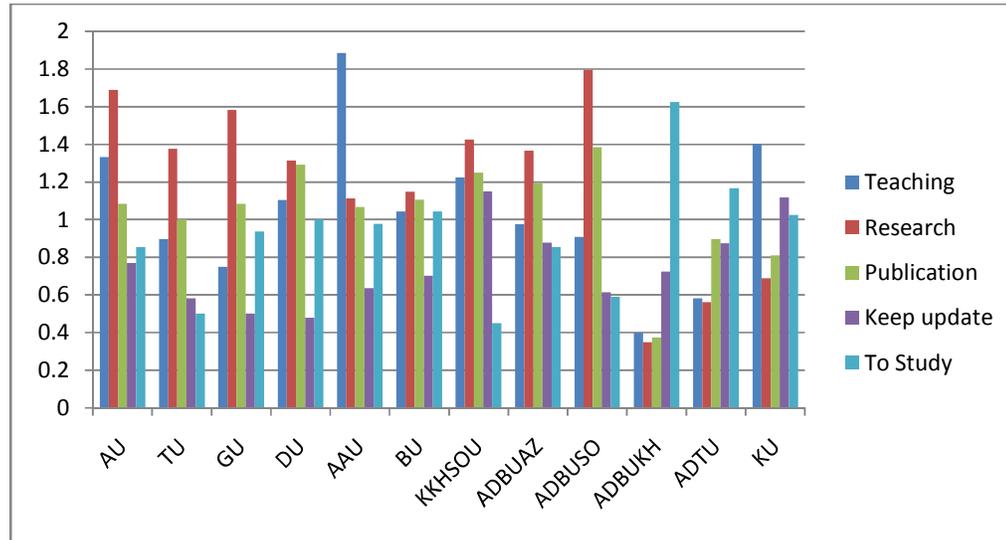


Figure 34 Purpose of using the printed resources

Table number 34.1 and figure number 34 stated that:

- In AU maximum number of user use the printed resources for the purpose of *research* scored 1.688 as first, followed by *teaching* scored 1.333 and *publication* scored 1.083 as second and third respectively.
- The user of TU uses the printed resources for the purpose of *research* scored 1.375 as highest, followed by *publication* scored 1.00 and *teaching* scored 0.896 as second and third respectively.
- The user of GU uses the printed resources for the purpose of *research* scored 1.583 as highest, followed by *publication* scored 1.083 and *study* scored 0.938 as second and third respectively.
- In DU maximum number of user use the printed resources for the purpose of *research* scored 1.313 as first, followed by *publication* scored 1.292 and *teaching* scored 1.104 as second and third respectively.
- The user of AAU uses the printed resources for the purpose of *teaching* scored 1.886 as highest, followed by *research* scored 1.114 and *publication* scored 1.068 as second and third respectively.

- In BU maximum number of user use the printed resources for the purpose of *research* scored 1.149 as first, followed by *publication* scored 1.106 and *teaching* scored 1.043 as second and third respectively.
- In KKHSOU maximum number of user use the printed resources for the purpose of *research* scored 1.425 as first, followed by *publication* scored 1.25 and *teaching* scored 1.225 as second and third respectively.
- In ADBUAZ maximum number of user use the printed resources for the purpose of *research* scored 1.366 as first, followed by *publication* scored 1.195 and *teaching* scored 0.976 as second and third respectively.
- In ADBUSO maximum number of user use the printed resources for the purpose of *research* scored 1.795 as first, followed by *publication* scored 1.386 and *teaching* scored 0.909 as second and third respectively.
- The user of ADBUKH uses the printed resources for the purpose of to *study* scored 1.625 as highest, followed by *to keep update with recent information* scored 0.725 and *teaching* scored 0.4 as second and third respectively.
- The user of ADTU uses the printed resources for the purpose of to *study* scored 1.167 as highest, followed by *publication* scored 0.896 and *to keep update with recent information* scored 0.875 as second and third respectively.
- The user of KU uses the printed resources for the purpose of *teaching* scored 1.405 as highest, followed by *to keep update with recent information* scored 1.119 and to *study* scored 1.024 as second and third respectively.

The purpose of using printed resources for *research* is highest scored 1.21, followed by *publication* scored 1.05, *teaching* scored 1.041 and *to study* scored 0.916 as second, third and fourth respectively; and lowest is *to keep update with recent information* which scored 0.743 in all universities.

Purpose	WMS&R	AU	TU	GU	DU	AAU	BU	KKHSO U	ADB UAZ	ADBUS O	ADB UKH	ADTU	KU
Teaching	W. M. S.	1.333	0.896	0.75	1.104	1.886	1.043	1.225	0.976	0.909	0.4	0.583	1.405
	R	3	9	10	5	1	6	4	7	8	12	11	2
Research	W. M. S.	1.688	1.375	1.583	1.313	1.114	1.149	1.425	1.366	1.795	0.35	0.563	0.69
	R	2	5	3	7	9	8	4	6	1	12	11	10
Publication	W. M. S.	1.083	1	1.083	1.292	1.068	1.106	1.25	1.195	1.386	0.375	0.896	0.81
	R	6	9	6	2	8	5	3	4	1	12	10	11
Keep update	W. M. S.	0.771	0.583	0.5	0.479	0.636	0.702	1.15	0.878	0.614	0.725	0.875	1.119
	R	5	10	11	12	8	7	1	3	9	6	4	2
To Study	W. M. S.	0.854	0.5	0.938	1.000	0.977	1.043	0.45	0.854	0.591	1.625	1.167	1.024
	R	8	11	7	5	6	3	12	8	10	1	2	4

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

Table number 34.2 stated that:

- *Teaching* as purpose of using the printed resources is highest in AAU scored 1.886, followed by KU is 1.405, AU is 1.333 and lowest in ADBUKH is scored 0.4.
- *Research* as purpose of using the printed resources is highest in ADBUSO scored 1.795, followed by AU is 1.688, GU is 1.583 and lowest in ADBUKH is scored 0.35.
- *Publication* as purpose of using the printed resources is highest in ADBUSO scored 1.386, followed by DU is 1.292, KKHSOU is 1.25 and lowest in ADBUKH is scored 0.35.

- *To keep update with recent information* as purpose of using the printed resources is highest in KKHSOU scored 1.15, followed by KU is 1.119, ADBUAZ is 0.878 and lowest in DU is scored 0.479.
- *To study* as purpose of using the printed resources is highest in ADBUKH scored 1.625, followed by ADTU is 1.167, BU is 1.043 and lowest in KKHSOU is scored 0.45.

5.2.7 User's Satisfaction and Library Collection

Library Collection	User Satisfaction	AU	TU	GU	DU	AU	BU	KKHSOU	ADBUAZ	ADBU SO	ADBU KH	ADTU	KU	Total
Printed Books	Very Good	18	17	23	20	19	7	13	10	6	6	11	8	158
	Good	16	16	17	18	16	11	12	15	12	15	12	8	168
	Satisfactory	12	9	5	7	4	17	8	10	14	9	12	14	121
	Poor	2	5	2	3	5	12	7	6	12	10	13	12	89
E-Books	Very Good	15	14	19	17	16	0	10	0	5	4	6	5	111
	Good	12	11	14	12	13	1	10	2	7	6	7	6	101
	Satisfactory	6	6	4	6	4	1	5	1	5	6	6	7	57
	Poor	2	4	2	3	5	2	4	3	4	3	3	4	39
Printed Reference Books	Very Good	11	10	19	18	16	2	8	6	6	5	8	5	114
	Good	6	14	12	13	14	10	13	14	18	14	16	14	168
	Satisfactory	10	15	12	13	8	16	13	10	13	13	11	12	146

	Poor	9	8	3	4	6	1 9	6	11	7	8	13	11	10 5
Printed Current Journals	Very Good	1 2	13	17	1 6	1 5	4 5	4	4	3	2	6	5	10 1
	Good	1 5	17	14	1 7	1 8	1 2	17	15	16	15	14	13	18 3
	Satisfactory	1 2	11	9	8	6	1 0	14	12	11	11	15	13	13 2
	Poor	7	5	6	7	5	1 8	5	10	14	12	12	11	11 2
E-Journals	Very Good	1 2	11	15	1 4	1 3	0 3	6	0	5	4	5	4	89
	Good	1 1	11	13	1 2	1 2	1 1	9	2	7	6	5	7	96
	Satisfactory	1 1	12	9	8	1 0	1 1	11	1	11	8	10	9	10 1
	Poor	8	7	8	9	9	2	6	2	5	4	6	7	73
Printed Back Volume - Journals	Very Good	1 3	12	18	1 7	1 5	6 5	7	6	5	4	6	7	11 6
	Good	1 3	14	14	1 3	1 2	1 1	14	12	13	14	17	17	16 4
	Satisfactory	1 2	11	9	1 2	1 0	1 4	13	13	14	15	15	13	15 1
	Poor	1 0	8	5	6	7	1 2	6	10	12	7	9	5	97
Printed Research Reports	Very Good	1 3	12	16	1 5	1 4	7 4	8	6	3	2	6	5	10 7
	Good	1 5	16	14	1 2	1 3	9 3	10	9	12	12	15	16	15 3
	Satisfactory	1 0	11	11	1 1	1 1	1 6	9	16	14	14	15	14	15 2
	Poor	8	5	5	7	5	1 1	8	9	15	12	12	7	10 4
Printed	Very Good	1	11	12	1	1	5	3	4	3	2	3	5	79

Conference Proceedings		0			1	0								
	Good	14	11	11	12	11	12	13	11	15	9	13	12	144
	Satisfactory	2	17	12	15	12	13	15	14	15	16	15	13	169
	Poor	0	6	11	7	10	13	9	12	9	13	15	12	127
Printed Govt. Publications	Very Good	8	10	11	10	8	4	3	3	2	1	4	2	66
	Good	2	13	13	13	10	10	10	9	14	11	17	10	142
	Satisfactory	9	14	12	14	11	12	13	13	12	11	16	12	154
	Poor	5	8	9	10	11	7	14	16	14	17	9	18	157
Printed Research Monographs	Very Good	9	10	10	9	9	3	2	2	3	2	3	4	66
	Good	3	10	18	15	11	12	14	12	10	11	15	9	151
	Satisfactory	0	16	11	15	11	11	11	15	18	12	18	16	173
	Poor	9	5	5	6	7	12	4	10	11	15	10	13	107
Printed Thesis and Dissertations	Very Good	8	19	21	20	19	8	6	8	8	2	6	3	138
	Good	5	15	15	15	13	11	12	17	17	13	15	16	174
	Satisfactory	2	11	8	8	9	10	14	11	12	16	13	11	135
	Poor	3	2	3	4	3	13	8	5	7	9	13	12	82
Printed Patents/Standards	Very Good	8	9	10	9	9	6	5	2	3	1	4	3	69
	Good	8	11	11	14	10	8	10	7	13	6	10	5	113

	Satisfactory	9	13	11	15	12	9	4	15	17	10	20	15	150
	Poor	11	8	9	7	9	19	12	14	9	17	12	19	146
Traditional Non Book Materials	Very Good	8	9	11	10	8	5	3	3	4	1	1	2	65
	Good	14	15	10	16	10	9	11	11	8	9	10	16	139
	Satisfactory	10	11	14	15	9	14	6	10	13	12	16	11	141
	Poor	6	8	9	6	7	17	11	14	17	12	19	13	149
Traditional Abstracting/Indexing Databases	Very Good	8	9	13	12	9	2	2	1	2	1	2	2	63
	Good	14	11	14	13	13	9	12	11	14	8	10	11	140
	Satisfactory	12	15	12	14	11	14	8	18	15	8	16	10	153
	Poor	0	9	5	6	10	17	9	8	11	17	18	19	139
Total	Very Good	163	166	215	198	180	59	80	55	58	37	71	60	1342
	Good	188	185	190	195	177	166	167	147	176	149	176	160	2036
	Satisfactory	147	172	139	161	137	163	144	159	184	161	198	170	1935
	Poor	120	88	82	85	98	184	109	130	147	156	164	163	1526

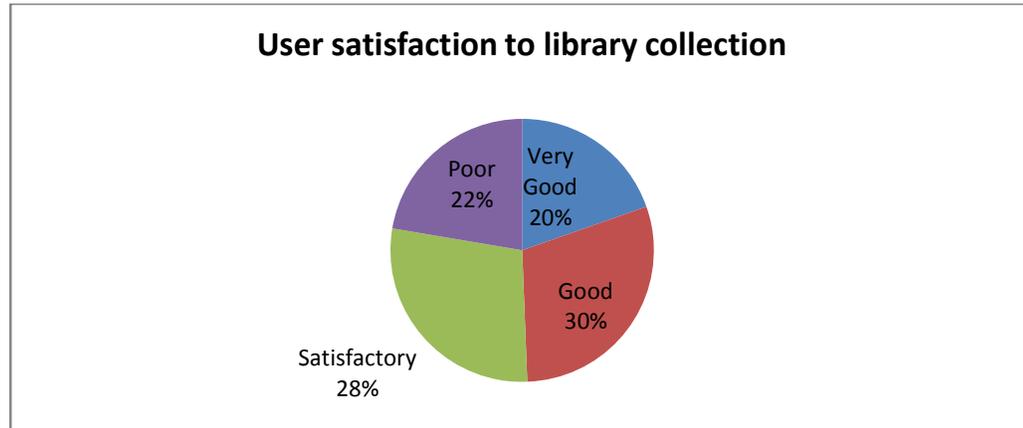


Figure 35 Total users satisfaction to library collection among the universities

Table number 35 and figure number 35 stated that total user satisfaction to library collection is voted by highest number of users as *good* with 2036 numbers (30%) followed by *satisfactory* with 1935 numbers (28%) as second, *poor* with 1526 numbers (22%) as third and *very good* with 1342 numbers (20%) as lowest among the universities.

Table 35.1 University wise User's Satisfaction regarding the collection (WMS&R)															
Universities	WMS&R	PBK	EBK	PRB	PCJ	EJNL	PBVJ	PRR	PCP	PGP	PRM	PTD	PPS	TNB	TAI
AU	W. M. S.	3.042	2.292	2.521	2.583	2.313	2.604	2.604	2.417	2.104	2.167	3.0	1.771	2.292	2.25
	R	1	9	6	5	8	3	3	7	13	12	2	14	9	11
TU	W. M. S.	2.896	2.188	2.5	2.708	2.25	2.5	2.563	2.438	2.396	2.229	3.021	2.146	2.313	2.25
	R	2	13	5	3	10	5	4	7	8	12	1	14	9	10
GU	W. M. S.	3.229	2.667	2.896	2.792	2.604	2.854	2.771	2.417	2.417	2.521	3.083	2.167	2.313	2.563
	R	1	7	3	5	8	4	6	11	11	10	2	14	13	9
DU	W. M. S.	3.146	2.479	2.938	2.875	2.438	2.854	2.604	2.438	2.438	2.438	3.021	2.396	2.583	2.521
	R	1	9	3	4	10	5	6	10	10	10	2	14	7	8
AAU	W. M. S.	3.114	2.636	2.909	2.977	2.659	2.795	2.773	2.432	2.364	2.477	3.091	2.25	1.977	2.432
	R	1	8	4	3	7	5	6	10	12	9	2	13	14	10

BU	W. M. S.	2.277	0.149	1.894	1.915	0.149	2.064	2.085	2.021	1.851	1.957	2.085	1.809	1.957	1.702
	R	1	13	9	8	13	4	2	5	10	6	2	11	6	12
KKHSOU	W. M. S.	2.775	2.1	2.575	2.5	1.975	2.55	2.2	2.25	2.05	1.9	2.4	1.75	1.7	1.725
	R	1	8	2	4	10	3	7	6	9	11	5	12	14	13
ADBUAZ	W. M. S.	2.707	0.268	2.366	2.317	0.244	2.341	2.244	2.171	1.976	2.049	2.683	1.78	1.927	1.976
	R	1	13	3	5	14	4	6	7	9	8	2	12	11	9
ADBUSO	W. M. S.	2.273	1.25	2.523	2.182	1.545	2.25	2.068	2.182	2	2.023	2.591	2.136	1.886	2.068
	R	3	14	2	5	13	4	8	5	11	10	1	7	12	8
ADBUKH	W. M. S.	2.425	1.225	2.4	2.175	1.35	2.375	2.1	2	1.9	2	2.2	1.475	1.675	1.525
	R	1	14	2	5	13	3	6	7	9	7	4	12	10	11
ADTU	W. M. S.	2.438	1.25	2.396	2.25	1.271	2.375	2.313	2	2.25	2.146	2.25	2.042	1.771	1.833
	R	1	14	2	5	13	3	4	10	5	8	5	9	12	11
KU	W. M. S.	2.286	1.333	2.31	2.286	1.476	2.619	2.452	2.238	1.905	2.095	2.238	1.81	2.167	1.905
	R	4	14	3	4	13	1	2	6	10	9	6	12	8	10
Total	W. M. S.	2.727	1.673	2.522	2.47	1.708	2.519	2.407	2.255	2.147	2.175	2.651	1.972	2.059	2.076
	R	1	14	3	5	13	4	6	7	9	8	2	12	11	10

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank, (PBK) denotes Printed Books, (EBK) denotes E-books, (PRB) denotes Printed Reference books, (PCJ) denotes Printed Current journals, (EJNL) denotes E-journals, (PBVJ) denotes Printed Back-volume journal, (PRR) denotes Printed Research reports, (PCP) denotes Printed Conference proceedings, (PGP) denotes Printed Govt. Publications, (PRM) denotes Printed Research Monographs, (PTD) denotes Printed Thesis/ Dissertations, (PPS) denotes Printed Patents/Standards, (TNB) denotes Traditional Non-book materials (Audio Visual), (TAI) denotes Traditional Abstracting/Indexing databases.

Table number 35.1 represents each university's *user satisfaction towards library collection-*

- In AU highest satisfaction voted for *printed books* scored 3.042 followed by *printed thesis/ dissertations* scored 3.0 as second and *printed back volume journal* and *printed research reports* scored 2.604 each as third priority.
- In TU highest satisfaction goes for *printed thesis/ dissertations* scored 3.021 followed by *printed books* scored 2.896 as second and *printed current journals* scored 2.708 as third priority.
- In GU highest satisfaction voted for *printed books* scored 3.229 followed by *printed thesis/ dissertations* scored 3.083 as second and *printed reference books* scored 2.896 as third priority.
- In DU highest satisfaction goes for *printed books* scored 3.146 followed by *printed thesis/ dissertations* scored 3.021 as second and *printed reference books* scored 2.938 as third priority.
- In AAU highest satisfaction voted for *printed books* scored 3.114 followed by *printed thesis/ dissertations* scored 3.091 as second and *printed current journals* scored 2.977 as third priority.
- In BU highest satisfaction goes to *printed books* scored 2.277 followed by *printed research reports* and *printed thesis/ dissertations* scored 2.085 each as second and *printed back volume journal* scored 2.064 as third priority.
- In KKHSOU highest satisfaction voted for *printed books* scored 2.775 followed by *printed reference books* scored 2.575 as second and *printed back volume journal* scored 2.55 as third priority.
- In ADBUAZ highest satisfaction goes for *printed books* scored 2.707 followed by *printed thesis/ dissertations* scored 2.683 as second and *printed reference books* scored 2.366 as third priority.
- In ADBUSO highest satisfaction goes for *printed thesis/ dissertations* scored 2.591 followed by *printed reference books* scored 2.523 as second and *printed books* scored 2.273 as third priority.

- In ADBUKH highest satisfaction goes for *printed books* scored 2.425 followed by *printed reference books* scored 2.40 as second and *printed back volume journal* scored 2.375 as third priority.
- In ADTU highest satisfaction goes for *printed books* scored 2.438 followed by *printed reference books* scored 2.396 as second and *printed back volume journal* scored 2.375 as third priority.
- In KU highest satisfaction goes for *printed back volume journal* scored 2.619 followed by *printed research reports* scored 2.452 as second and *printed reference books* scored 2.31 as third priority.

User satisfaction is highest with *printed books* which scored 2.727, followed by *printed thesis/ dissertations* as second with 2.651 and *printed reference books* as third priority with 2.522. User satisfaction on *e-books* and *e-journals* is lowest by scoring 1.673 and 1.708 respectively among the universities.

Table 35.2 Satisfaction of users in the context of Library's collection (WMS&R)													
Collection	WMS &R	AU	TU	GU	DU	AAU	BU	KKHS OU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Printed Book	W. M. S.	3.042	2.896	3.229	3.146	3.114	2.277	2.775	2.707	2.273	2.425	2.438	2.286
	R	4	5	1	2	3	11	6	7	12	9	8	10
E Book	W. M. S.	2.292	2.188	2.667	2.479	2.636	0.149	2.1	0.268	1.25	1.225	1.25	1.333
	R	4	5	1	3	2	12	6	11	8	10	8	7
Printed Reference Book	W. M. S.	2.521	2.5	2.896	2.938	2.909	1.894	2.575	2.366	2.523	2.4	2.396	2.31
	R	6	7	3	1	2	12	4	10	5	8	9	11
Printed Current Journal	W. M. S.	2.583	2.708	2.792	2.875	2.977	1.915	2.5	2.317	2.182	2.175	2.25	2.286
	R	5	4	3	2	1	12	6	7	10	11	9	8
E Journal	W. M. S.	2.313	2.25	2.604	2.438	2.659	0.149	1.975	0.244	1.545	1.35	1.271	1.476
	R	4	5	2	3	1	12	6	11	7	9	10	8
Printed Back Volume Journal	W. M. S.	2.604	2.5	2.854	2.854	2.795	2.064	2.55	2.341	2.25	2.375	2.375	2.619
	R	5	7	1	1	3	12	6	10	11	8	8	4
Printed Research Report	W. M. S.	2.604	2.563	2.771	2.604	2.773	2.085	2.2	2.244	2.068	2.1	2.313	2.452
	R	3	5	2	3	1	11	9	8	12	10	7	6
Printed Conference Proceeding	W. M. S.	2.417	2.438	2.417	2.438	2.432	2.021	2.25	2.171	2.182	2	2	2.238
	R	4	1	4	1	3	10	6	9	8	11	11	7
Printed Govt Publication	W. M. S.	2.104	2.396	2.417	2.438	2.364	1.851	2.05	1.976	2	1.9	2.25	1.905
	R	6	3	2	1	4	12	7	9	8	11	5	10
Printed Research Monograph	W. M. S.	2.167	2.229	2.521	2.438	2.477	1.957	1.9	2.049	2.023	2	2.146	2.095
	R	5	4	1	3	2	11	12	8	9	10	6	7
Printed Thesis/Dissertation	W. M. S.	3.0	3.021	3.083	3.021	3.091	2.085	2.4	2.683	2.591	2.2	2.25	2.238
	R	5	3	2	3	1	12	8	6	7	11	9	10
Printed Patent/Standard	W. M. S.	1.771	2.146	2.167	2.396	2.25	1.809	1.75	1.78	2.136	1.475	2.042	1.81
	R	10	4	3	1	2	8	11	9	5	12	6	7

Traditional Non Book Material	W. M. S.	2.292	2.313	2.313	2.583	1.977	1.957	1.7	1.927	1.886	1.675	1.771	2.167
	R	4	2	2	1	6	7	11	8	9	12	10	5
Traditional Abstracting/Indexing Database	W. M. S.	2.25	2.25	2.563	2.521	2.432	1.702	1.725	1.976	2.068	1.525	1.833	1.905
	R	4	4	1	2	3	11	10	7	6	12	9	8
Total	W. M. S.	33.96	34.398	37.294	37.169	36.886	23.915	30.45	27.05	28.98	26.83	28.59	29.12
	R	5	4	1	2	3	12	6	10	8	11	9	7

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

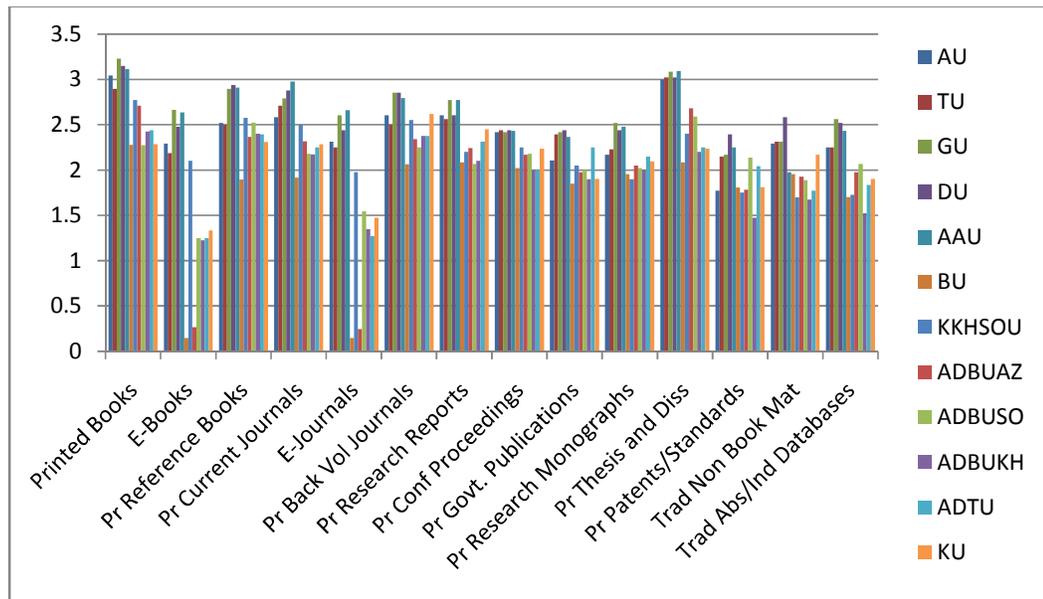


Figure 36 Library collection and user satisfaction

It is seen from the table number 35.2 and figure number 36 that *user satisfaction in the context of-*

- *Printed books* is highest in GU (3.229) followed by DU is 3.146, AAU is 3.114 as second and third respectively and lowest in ADBUSO by scoring 2.273.

- *E-books* are highest in GU is scored 2.667 followed by AAU is 2.636, DU is 2.479 as second and third respectively and lowest in BU by scoring 0.149.
- *Printed reference book* is highest in DU is scored 2.938 followed by AAU is 2.909, GU is 2.896 as second and third respectively and lowest in BU by scoring 1.894.
- *Printed current journal* is highest in AAU is scored 2.977 followed by DU is 2.875, GU is 2.792 as second and third respectively and lowest in BU by scoring 1.915.
- *E-journal* is highest in AAU is scored 2.659 followed by GU is 2.604, DU is 2.438 as second and third respectively and lowest in BU by scoring 0.149.
- *Printed back volume journal* is highest in GU and DU is scored 2.854 each followed by AAU is 2.795, KU is 2.619 as second and third respectively and lowest in BU by scoring 2.064.
- *Printed research reports* is highest in AAU is scored 2.773 followed by GU is 2.771 as second; AU and DU is 2.604 each as third and lowest in ADBUSO by scoring 2.068.
- *Printed conference proceedings* is highest in TU and DU is scored 2.438 each followed by AAU is 2.432, AU and GU is 2.417 each as second and third respectively and lowest in ADBUKH and ADTU by scoring 2.0.
- *Printed Govt. publication* is highest in DU is scored 2.438 followed by GU is 2.417, TU is 2.396 as second and third respectively and lowest in BU by scoring 1.851.
- *Printed research monographs* is highest in GU is scored 2.521 followed by AAU is 2.477, DU is 2.438 as second and third respectively and lowest in KKHSOU by scoring 1.9.
- *Printed thesis/ dissertations* is highest in AAU is scored 3.091 followed by GU is 3.083, TU and DU is 3.021 each as second and third respectively and lowest in BU by scoring 2.085.

- *Printed patent/ standard* is highest in DU is scored 2.396 followed by AAU is 2.25, GU is 2.167 as second and third respectively and lowest in ADBUKH by scoring 1.475.
- *Traditional non book materials (AV)* are highest in DU is scored 2.583 followed by TU and GU is 2.313 each and AU is 2.292 as second and third respectively and lowest in ADBUKH by scoring 1.675.
- *Traditional abstracting/ indexing databases* are highest in GU is scored 2.563 followed by DU is 2.521 and AAU is 2.432 as second and third respectively and lowest in ADBUKH by scoring 1.525.

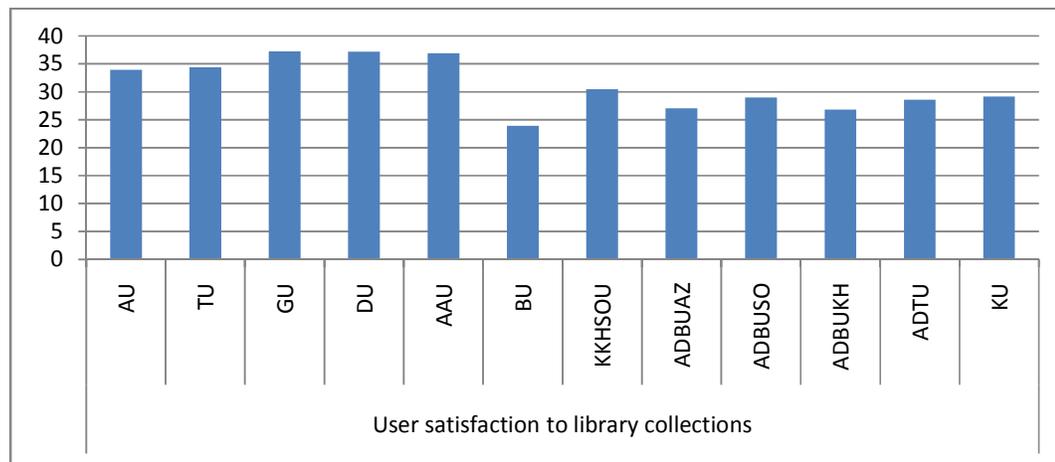


Figure 37 University wise users satisfaction to library collections

Table 35.2 and figure number 37 showed that *level of satisfaction* at GU in the context of collection is highest, which scored with 37.294, followed by DU (37.169) as 2nd, AAU (36.886) as 3rd and BU (23.915) as last position among the universities.

5.2.8 Type of collection needs to be improved

Table 36 Type of collection needs to be improved (Priority)											
University	Priority	NA	PBK	EBK	PJNL	EJNL	T&D	ET&D	A&I	EDAT	Total
AU	Priority1	0	11	11	4	21	1	0	0	0	48
	Priority2	0	6	20	9	6	3	3	0	1	48
	Priority3	2	12	5	2	12	6	7	1	1	48
TU	Priority1	0	8	14	3	13	2	7	1	0	48
	Priority2	1	8	9	7	10	9	1	1	2	48
	Priority3	2	14	13	5	9	3	2	0	0	48
GU	Priority1	0	13	5	8	15	3	2	1	1	48
	Priority2	0	8	18	6	3	6	1	1	5	48
	Priority3	0	10	12	5	8	7	5	1	0	48
DU	Priority1	0	15	16	6	5	4	2	0	0	48
	Priority2	0	7	5	7	15	4	1	4	5	48
	Priority3	1	10	8	9	10	1	8	0	1	48
AAU	Priority1	0	8	21	1	13	0	0	1	0	44
	Priority2	0	7	11	7	13	3	1	2	0	44
	Priority3	2	7	7	12	6	1	6	2	1	44
BU	Priority1	0	12	18	3	10	2	2	0	0	47
	Priority2	1	9	7	5	12	4	1	3	5	47
	Priority3	3	8	14	10	5	2	5	0	0	47
KKHSOU	Priority1	0	10	15	2	9	2	2	0	0	40
	Priority2	0	10	7	9	8	4	2	0	0	40
	Priority3	1	5	7	10	7	5	5	0	0	40
ADBUAZ	Priority1	2	12	15	1	7	2	1	0	1	41
	Priority2	2	7	2	3	14	7	2	3	1	41

	Priority3	4	4	8	9	5	1	10	0	0	41
ADBUSO	Priority1	0	8	15	5	11	4	1	0	0	44
	Priority2	0	10	15	4	6	2	4	0	3	44
	Priority3	2	5	5	8	8	3	9	1	3	44
ADBUKH	Priority1	4	12	5	1	5	3	8	1	1	40
	Priority2	4	2	4	4	1	10	0	6	9	40
	Priority3	4	1	15	4	11	5	0	0	0	40
ADTU	Priority1	0	10	5	7	11	5	6	2	2	48
	Priority2	1	5	9	8	4	10	1	4	6	48
	Priority3	2	5	18	5	10	1	6	0	1	48
KU	Priority1	1	5	16	2	13	0	5	0	0	42
	Priority2	1	6	10	5	8	7	2	1	2	42
	Priority3	4	10	10	1	6	1	9	0	1	42
Total	Priority1	7	124	156	43	133	28	36	6	5	538
	Priority2	10	85	117	74	100	69	19	25	39	538
	Priority3	27	91	122	80	97	36	72	5	8	538

NA denotes Not applicable, (PBK) denotes Printed Book, (EBK) denotes E-Book, (PJNL) denotes Printed Journal, (EJNL) denotes E-Journal, (T&D) denotes Thesis and Dissertation, (ET&D) denotes E-Thesis and Dissertation, (A&I) denotes Abstracting/Indexing database, (EDAT) denotes E-Database

Universities	WMS&R	Printed Book	E Book	Printed Journal	E Journal	Thesis/Dissertation	E Thesis/Dissertation	Abstracting/Indexing database	E Database
AU	W. M. S.	1.188	1.625	0.667	1.813	0.313	0.271	0.021	0.063
	R	3	2	4	1	5	6	8	7
TU	W. M. S.	1.125	1.521	0.583	1.417	0.563	0.521	0.104	0.083
	R	3	1	4	2	5	6	7	8

GU	W. M. S.	1.354	1.313	0.854	1.229	0.583	0.271	0.125	0.271
	R	1	2	4	3	5	6	8	6
DU	W. M. S.	1.438	1.375	0.854	1.146	0.438	0.333	0.167	0.229
	R	1	2	4	3	5	6	8	7
AAU	W. M. S.	1.023	2.091	0.659	1.614	0.159	0.182	0.205	0.023
	R	3	1	4	2	7	6	5	8
BU	W. M. S.	1.319	1.745	0.617	1.255	0.34	0.277	0.128	0.213
	R	2	1	4	3	5	6	8	7
KKHSOU	W. M. S.	1.375	1.65	0.85	1.25	0.475	0.375	0	0
	R	2	1	4	3	5	6	7	7
ADBUAZ	W. M. S.	1.317	1.39	0.439	1.317	0.512	0.415	0.146	0.122
	R	2	1	5	2	4	6	7	8
ADBUSO	W. M. S.	1.114	1.818	0.705	1.205	0.432	0.455	0.023	0.205
	R	3	1	4	2	6	5	8	7
ADBUKH	W. M. S.	1.025	0.95	0.375	0.7	0.85	0.6	0.375	0.525
	R	1	2	7	4	3	5	7	6
ADTU	W. M. S.	0.938	1.063	0.875	1.063	0.75	0.542	0.292	0.396
	R	3	1	4	1	5	6	8	7
KU	W. M. S.	0.881	1.857	0.405	1.452	0.357	0.667	0.048	0.119
	R	3	1	5	2	6	4	8	7
Total	W. M. S.	1.177	1.532	0.664	1.294	0.48	0.405	0.136	0.188
	R	3	1	4	2	5	6	8	7

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

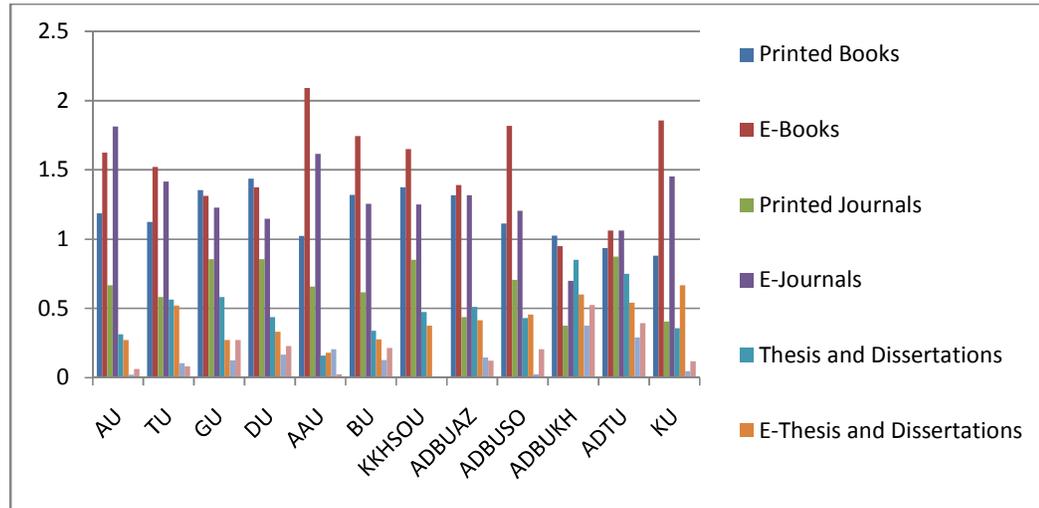


Figure 38 Type of collection needs to be improved

Table number 36.1 and figure number 38 showed the area where the collection needs to be improved is:

- In AU the user voted to increase the collection in the form of *e-journals* scored 1.813 as highest followed by *e-books* scored 1.625 as second and *printed books* scored 1.188 as third priority.
- In TU the user voted to increase the collection in the form of *e-books* scored 1.521 as highest followed by *e-journals* scored 1.417 as second and *printed books* scored 1.125 as third priority.
- In GU the user voted to increase the collection in the form of *printed books* scored 1.354 as highest followed by *e-books* scored 1.313 as second and *e-journals* scored 1.229 as third priority.
- In DU the user voted to increase the collection in the form of *printed books* scored 1.438 as highest followed by *e-books* scored 1.375 as second and *e-journals* scored 1.146 as third priority.
- In AAU the user voted to increase the collection in the form of *e-books* scored 2.091 as highest followed by *e-journals* scored 1.614 as second and *printed books* scored 1.023 as third priority.

- In BU the user voted to increase the collection in the form of *e-books* scored 1.745 as highest followed by *printed books* scored 1.319 as second and *e-journals* scored 1.255 as third priority.
- In KKHSOU the user voted to increase the collection in the form of *e-books* scored 1.65 as highest followed by *printed books* scored 1.375 as second and *e-journals* scored 1.25 as third priority.
- In ADBUAZ the user voted to increase the collection in the form of *e-books* scored 1.39 as highest followed by *printed books* and *e-journals* scored 1.317 each as second and *thesis and dissertations* scored 0.512 as third priority.
- In ADBUSO the user voted to increase the collection in the form of *e-books* scored 1.818 as highest followed by *e-journals* scored 1.205 as second and *printed books* scored 1.114 as third priority.
- In ADBUKH the user voted to increase the collection in the form of *printed books* scored 1.025 as highest followed by *e-books* scored 0.95 as second and *thesis and dissertations* scored 0.85 as third priority.
- In ADTU the user voted to increase the collection in the form of *e-books* and *e-journals* scored 1.063 as highest followed by *printed books* scored 0.938 as second and *printed journals* scored 0.875 as third priority.
- In KU the user voted to increase the collection in the form of *e-books* scored 1.857 as highest followed by *e-journals* scored 1.452 as second and *printed books* scored 0.881 as third priority.

The user voted highest to improve the type of collection as *e-books* as first category by scoring 1.532 followed by *e-journals* by scoring 1.294 as second and *printed books* by scoring 1.177 as third priority among the universities.

Table 36.2 Type of collection needs to be improved (WMS&R)

Collections	WMS &R	AU	TU	GU	DU	AAU	BU	KKHSOU	ADB UAZ	ADBU SO	ADB UKH	ADT U	KU
Printed Book	W.	1.1	1.12	1.354	1.43	1.023	1.3	1.375	1.31	1.114	1.02	0.93	0.8
	M. S.	88	5		8		19		7		5	8	81
	R	6	7	3	1	10	4	2	5	8	9	11	12
E Book	W.	1.6	1.52	1.313	1.37	2.091	1.7	1.65	1.39	1.818	0.95	1.06	1.8

	M. S.	25	1		5		45					3	57
	R	6	7	10	9	1	4	5	8	3	12	11	2
Printed Journal	W.	0.6	0.58	0.854	0.85	0.659	0.6	0.85	0.43	0.705	0.37	0.87	0.4
	M. S.	67	3		4		17		9		5	5	05
	R	6	9	2	2	7	8	4	10	5	12	1	11
E Journal	W.	1.8	1.41	1.229	1.14	1.614	1.2	1.25	1.31	1.205	0.7	1.06	1.4
	M. S.	13	7		6		55		7			3	52
	R	1	4	8	10	2	6	7	5	9	12	11	3
Thesis/Dissertation	W.	0.3	0.56	0.583	0.43	0.159	0.3	0.475	0.51	0.432	0.85	0.75	0.3
	M. S.	13	3		8		4		2				57
	R	11	4	3	7	12	10	6	5	8	1	2	9
E Thesis/Dissertation	W.	0.2	0.52	0.271	0.33	0.182	0.2	0.375	0.41	0.455	0.6	0.54	0.6
	M. S.	71	1		3		77		5			2	67
	R	10	4	10	8	12	9	7	6	5	2	3	1
Abstracting/Indexing database	W.	0.0	0.10	0.125	0.16	0.205	0.1	0	0.14	0.023	0.37	0.29	0.0
	M. S.	21	4		7		28		6		5	2	48
	R	11	8	7	4	3	6	12	5	10	1	2	9
E Database	W.	0.0	0.08	0.271	0.22	0.023	0.2	0	0.12	0.205	0.52	0.39	0.1
	M. S.	63	3		9		13		2		5	6	19
	R	10	9	3	4	11	5	12	7	6	1	2	8

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

Table number 36.2 stated that *user wishes the collection needs to be improved* in the form of-

- *Printed books* is highest in DU by scoring 1.438 followed by KKHSOU by scoring 1.375 as second and GU is in third positions by scoring 1.354.
- *E-books* are highest in AAU by scoring 2.091 followed by KU by scoring 1.857 as second and ADBUSO is in third positions by scoring 1.818.
- *Printed journals* is highest in ADTU by scoring 0.875 followed by GU and DU by scoring 0.854 each as second and KKHSOU is in third positions by scoring 0.85.
- *E-journals* is highest in AU by scoring 1.813 followed by AAU by scoring 1.614 as second and KU is in third positions by scoring 1.452.

- *Thesis and dissertations* is highest in ADBUKH by scoring 0.85 followed by ADTU by scoring 0.75 as second and GU is in third positions by scoring 0.583.
- *E-thesis and dissertations* is highest in KU by scoring 0.667 followed by ADBUKH by scoring 0.6 as second and ADTU is in third positions by scoring 0.542.
- *Abstracting/ indexing databases* is highest in ADBUKH by scoring 0.375 followed by ADTU by scoring 0.292 as second and AAU is in third positions by scoring 0.205.
- *E-databases* is highest in ADBUKH by scoring 0.525 followed by ADTU by scoring 0.396 as second and GU is in third positions by scoring 0.271.

5.2.9 Library Subscribes E-Resources or not

University	Not Applicable	Yes	No	Total
AU	0	46	2	48
	0.0%	95.8%	4.2%	100.0%
TU	0	48	0	48
	0.0%	100.0%	0.0%	100.0%
GU	0	48	0	48
	0.0%	100.0%	0.0%	100.0%
DU	0	48	0	48
	0.0%	100.0%	0.0%	100.0%
AAU	0	44	0	44
	0.0%	100.0%	0.0%	100.0%
BU	0	0	47	47
	0.0%	0.0%	100.0%	100.0%
KKHSOU	0	40	0	40
	0.0%	100.0%	0.0%	100.0%
ADBUAZ	0	0	41	41
	0.0%	0.0%	100.0%	100.0%
ADBUSO	0	44	0	44
	0.0%	100.0%	0.0%	100.0%
ADBUKH	10	30	0	40
	25.0%	75.0%	0.0%	100.0%

ADTU	0	46	2	48
	0.0%	95.8%	4.2%	100.0%
KU	0	42	0	42
	0.0%	100.0%	0.0%	100.0%
Total	10	436	92	538
	1.9%	81.0%	17.1%	100.0%

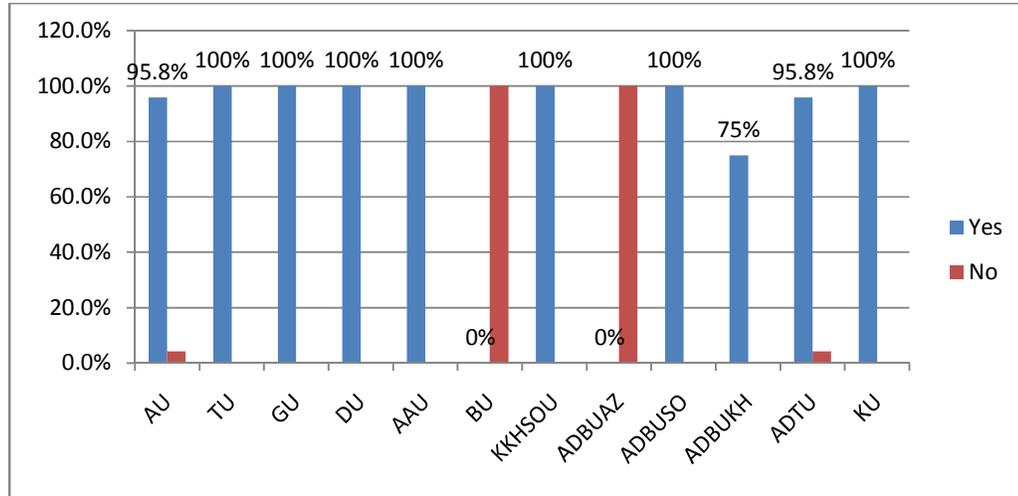


Figure 39 Library subscribes e-resources or not

Table number 37 and figure number 39 stated that 81.0% user replied as *yes* and 17.1% user as *no* to the question does the library subscribe e-resources. The answer *yes* is highest in TU, GU, DU, AAU, KKHSOU, ADBUSO and KU is 100% each followed by AU and ADTU is 95.8% as second, ADBUKH is 75% as third and lowest in BU and ADBUAZ is 0%. The answer *no* is highest in BU and ADBUAZ is 100% each followed by AU and ADTU is 4.2% as second and lowest in TU, GU, DU, AAU, KKHSOU, ADBUSO and KU is 0% from all universities.

5.2.10 Purpose of using Electronic Resources

University	Priority	Not Applicabl e	Teaching	Research	Publication	Keep update with current trends	Seminar /Worksh op	Total

AU	Priority1	0	21	12	12	0	3	48
	Priority2	6	10	17	6	6	3	48
	Priority3	30	0	5	3	5	5	48
TU	Priority1	0	11	16	7	9	5	48
	Priority2	3	8	11	10	4	12	48
	Priority3	27	2	5	3	3	8	48
GU	Priority1	1	10	14	19	2	2	48
	Priority2	1	5	15	9	3	15	48
	Priority3	23	0	3	4	9	9	48
DU	Priority1	0	12	16	14	3	3	48
	Priority2	0	10	12	10	0	16	48
	Priority3	20	1	4	5	16	2	48
AAU	Priority1	0	23	8	12	0	1	44
	Priority2	1	11	21	4	5	2	44
	Priority3	25	0	7	7	1	4	44
BU	Priority1	2	17	10	14	2	2	47
	Priority2	2	8	16	5	0	16	47
	Priority3	20	3	4	9	11	0	47
KKHSOU	Priority1	0	8	21	6	0	5	40
	Priority2	0	14	7	13	3	3	40
	Priority3	15	0	5	6	13	1	40
ADBUAZ	Priority1	0	10	15	7	2	7	41
	Priority2	0	17	7	9	7	1	41
	Priority3	19	3	8	2	3	6	41
ADBUSO	Priority1	0	11	21	9	1	2	44
	Priority2	4	11	9	14	2	4	44
	Priority3	19	0	5	2	4	14	44
ADBUKH	Priority1	0	3	11	9	11	6	40

	Priority2	2	13	3	7	11	4	40
	Priority3	28	0	2	3	0	7	40
ADTU	Priority1	0	7	19	9	13	0	48
	Priority2	2	9	6	19	7	5	48
	Priority3	31	2	1	1	4	9	48
KU	Priority1	0	23	5	10	2	2	42
	Priority2	3	8	17	2	9	3	42
	Priority3	29	0	4	3	0	6	42
Total	Priority1	3	156	168	128	45	38	538
	Priority2	24	124	141	108	57	84	538
	Priority3	286	11	53	48	69	71	538

Table 38.1 University wise Purpose of Using E-resources (WMS&R)

University	WMS&R	Teaching	Research	Publication	Keep update with current trends	Seminar/ Workshop
AU	W. M. S.	1.729	1.563	1.063	0.354	0.417
	R	1	2	3	5	4
TU	W. M. S.	1.063	1.563	0.917	0.792	0.979
	R	2	1	4	5	3
GU	W. M. S.	0.833	1.563	1.646	0.438	0.938
	R	4	2	1	5	3
DU	W. M. S.	1.188	1.583	1.396	0.521	0.896
	R	3	1	2	5	4
AAU	W. M. S.	2.068	1.659	1.159	0.25	0.25
	R	1	2	3	4	4
BU	W. M. S.	1.489	1.404	1.298	0.362	0.809
	R	1	2	3	5	4
KKHSOU	W. M. S.	1.3	2.05	1.25	0.475	0.55
	R	2	1	3	5	4
ADBUAZ	W. M. S.	1.634	1.634	1	0.561	0.707
	R	1	1	3	5	4
ADBUSO	W. M. S.	1.25	1.955	1.295	0.25	0.636
	R	3	1	2	5	4
ADBUKH	W. M. S.	0.875	1.025	1.1	1.375	0.825

	R	4	3	2	1	5
ADTU	W. M. S.	0.854	1.458	1.375	1.188	0.396
	R	4	1	2	3	5
KU	W. M. S.	2.024	1.262	0.881	0.571	0.429
	R	1	2	3	4	5
Total	W. M. S.	1.351	1.559	1.204	0.591	0.656
	R	2	1	3	5	4

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

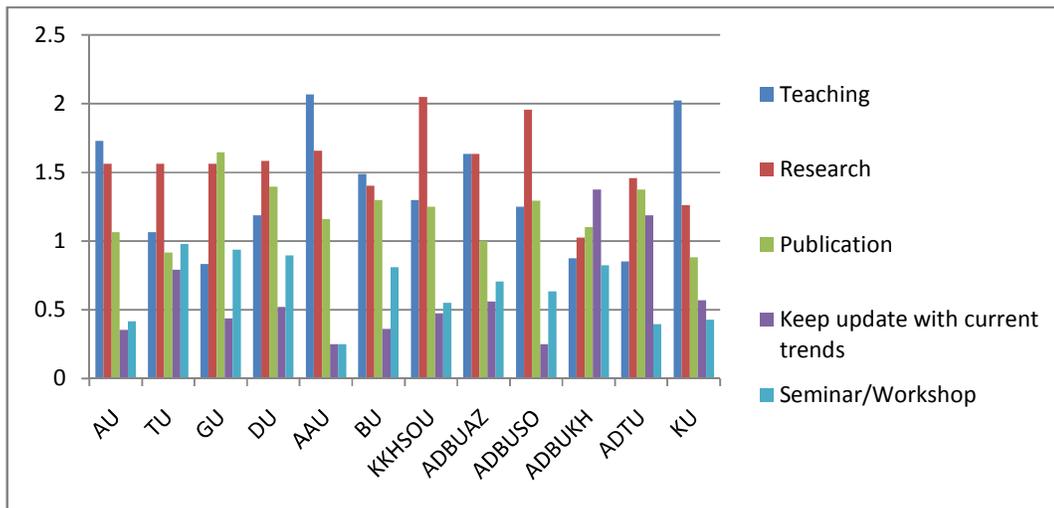


Figure 40 Purpose of using e-resources

Table number 38.1 and figure number 40 stated that *purpose of using e-resources-*

- In AU is highest as *teaching* scored 1.729 followed by *research* scored 1.563 as second and *publication* is 1.063 as third priority.
- In TU is highest as *research* scored 1.563 followed by *teaching* scored 1.063 as second and *for seminar/ workshop presentation* scored 0.979 as third priority.
- In GU is highest as *publication* scored 1.646 followed by *research* scored 1.563 as second and *for seminar/ workshop presentation* is 0.938 as third priority.

- In DU is highest as *research* is scored 1.583 followed by *publication* is scored 1.396 as second and *teaching* is 1.188 as third priority.
- In AAU is highest as *teaching* scored 2.068 followed by *research* scored 1.659 as second and *publication* is 1.159 as third priority.
- In BU is highest as *teaching* scored 1.489 followed by *research* scored 1.404 as second and *publication* is 1.298 as third priority.
- In KKHSOU is highest as *research* scored 2.05 followed by *teaching* scored 1.3 as second and *publication* is 1.25 as third priority.
- In ADBUAZ is highest as *teaching* and *research* scored 1.634 each followed by *publication* scored 1.0 as second and *for seminar/ workshop presentation* is 0.707 as third priority.
- In ADBUSO is highest as *research* scored 1.955 followed by *publication* scored 1.295 as second and *teaching* is 1.25 as third priority.
- In ADBUKH is highest as *to keep update with current trends* scored 1.375 followed by *publication* scored 1.1 as second and *research* is 1.025 as third priority.
- In ADTU is highest as *research* scored 1.458 followed by *publication* scored 1.375 as second and *to keep update with current trends* is 1.188 as third priority.
- In KU is highest as *teaching* scored 2.024 followed by *research* scored 1.262 as second and *publication* is 0.881 as third priority.

It is seen that basically the user uses the e-resources for the purpose of *research* scored 1.559 as prime choice followed by *teaching* scored 1.351 as second and *publication* scored 1.204 as third priority in all universities.

Purpose	WMS &R	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBU SO	ADB UKH	ADTU	KU
Teaching	W. M. S.	1.729	1.063	0.833	1.188	2.068	1.489	1.3	1.634	1.25	0.875	0.854	2.024

	R	3	9	12	8	1	5	6	4	7	10	11	2
Research	W. M. S.	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563	1.563
	R	6	6	6	5	3	10	1	4	2	12	9	1
Publication	W. M. S.	1.063	0.917	1.646	1.396	1.188	1.25	1.25	1	1.2	1.1	1.375	0.881
	R	9	11	1	2	7	4	6	10	5	8	3	2
KUWCT	W. M. S.	0.354	0.792	0.4	0.521	0.25	0.362	0.475	0.561	0.25	1.375	1.188	0.792
	R	10	3	8	6	11	9	7	5	11	1	2	4
Seminar/Workshop	W. M. S.	0.417	0.979	0.938	0.896	0.25	0.809	0.55	0.707	0.636	0.825	0.396	0.429
	R	10	1	2	3	12	5	8	6	7	4	11	9

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank, (KUWCT) denotes keep update with current trends

Table number 38.2 stated that *purpose of using e-resources-*

- As *teaching* is highest in AAU scored 2.068 followed by KU scored 2.024 as second and AU scored 1.729 as third rank.
- As *research* is highest in KKHSOU scored 2.05 followed by ADBUSO scored 1.955 as second and AAU scored 1.659 as third rank.
- As *publication* is highest in GU scored 1.646 followed by DU scored 1.396 as second and ADTU scored 1.375 as third rank.
- As *to keep update with current trends* is highest in ADBUKH scored 1.375 followed by ADTU scored 1.188 as second and TU scored 0.792 as third rank.
- As *for seminar/ workshop presentation* is highest in TU scored 0.979 followed by GU scored 0.938 as second and DU scored 0.896 as third rank.

5.2.11 Frequency of using the E-Resources

Table 39 Frequency of Using E-resources						
University	Not Applicable	Daily	Twice in a Week	Once in a Week	Occasionally	Total
AU	0	18	11	9	10	48
	0.0%	37.5%	22.9%	18.8%	20.8%	100.0%
TU	0	17	10	9	12	48
	0.0%	35.4%	20.8%	18.8%	25.0%	100.0%
GU	0	21	11	9	7	48
	0.0%	43.8%	22.9%	18.8%	14.6%	100.0%
DU	0	20	14	5	9	48
	0.0%	41.7%	29.2%	10.4%	18.8%	100.0%
AAU	0	19	9	5	11	44
	0.0%	43.2%	20.5%	11.4%	25.0%	100.0%
BU	9	12	11	9	6	47
	19.1%	25.5%	23.4%	19.1%	12.8%	100.0%
KKHSOU	0	10	9	11	10	40
	0.0%	25.0%	22.5%	27.5%	25.0%	100.0%
ADBUAZ	0	9	11	13	8	41
	0.0%	22.0%	26.8%	31.7%	19.5%	100.0%
ADBUSO	0	7	14	10	13	44
	0.0%	15.9%	31.8%	22.7%	29.5%	100.0%
ADBUKH	0	5	11	13	11	40
	0.0%	12.5%	27.5%	32.5%	27.5%	100.0%
ADTU	0	9	13	12	14	48
	0.0%	18.8%	27.1%	25.0%	29.2%	100.0%
KU	0	10	13	9	10	42
	0.0%	23.8%	31.0%	21.4%	23.8%	100.0%
Total	9	157	137	114	121	538
	1.7%	29.2%	25.5%	21.2%	22.5%	100.0%

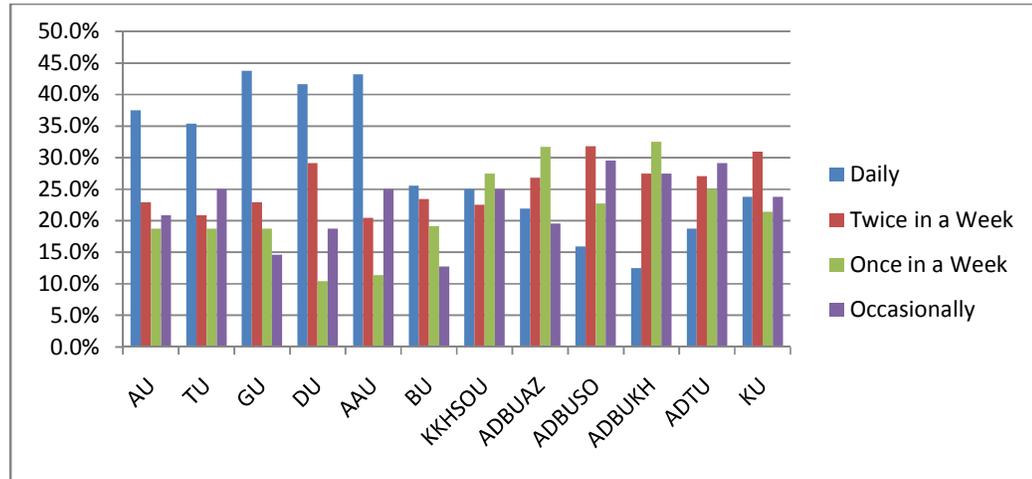


Figure 41 Frequency of using e-resources

Table number 39 and figure number 41 stated that *the frequency of using e-resources-*

- In AU highest number of user use *daily* is 37.5% followed by *twice in a week* is 22.9% and *occasionally* is 20.8% as second and third choice respectively.
- In TU highest number of user use *daily* is 35.4% followed by *occasionally* is 25.0% and *twice in a week* is 20.8% as second and third choice.
- In GU highest number of user use *daily* is 43.8% followed by *twice in a week* is 22.9% and *once in a week* is 18.8% as second and third.
- In DU highest number of user use *daily* is 41.7% followed by *twice in a week* is 29.2% and *occasionally* is 18.8% as second and third respectively.
- In AAU highest number of user use *daily* is 43.2% followed by *occasionally* is 25.0% and *twice in a week* is 20.5% as second and third.
- In BU highest number of user use *daily* is 25.5% followed by *twice in a week* is 23.4% and *once in a week* is 19.1% as second and third respectively.
- In KKHSOU highest number of user use *once in a week* is 27.5% followed by *daily* and *occasionally* is 25.0% each and *twice in a week* is 22.5% as second and third choice.
- In ADBUAZ highest number of user use *once in a week* is 31.7% followed by *twice in a week* is 26.8% and *daily* is 22.0% as second and third.

- In ADBUSO highest number of user use *twice in a week* is 31.8% followed by *occasionally* is 29.5% and *once in a week* is 22.7% as second and third respectively.
- In ADBUKH highest number of user use *once in a week* is 32.5% followed by *twice in a week* and *occasionally* is 27.5% each and *daily* is 12.5% as second and third.
- In ADTU highest number of user use *occasionally* is 29.2% followed by *twice in a week* is 27.1% and *once in a week* is 25.0% as second and third choice.
- In KU highest number of user use *twice in a week* is 31.0% followed by *daily* and *occasionally* is 23.8% each and *once in a week* is 21.4% as second and third choice respectively.

It is seen from the table number 39 that *the frequency of using library e- resources-*

- *Daily* user is highest in GU with 43.8% followed by AAU with 43.2% as second and DU with 41.7% as third position and lowest in ADBUKH is 12.5%.
- *Twice in a week* is highest in ADBUSO with 31.8% followed by KU with 31.0% as second and DU with 29.2% as third position and lowest in AAU is 20.5%.
- *Once in a week* is highest in ADBUKH with 32.5% followed by ADBUAZ with 31.7% as second and KKHSOU with 27.5% as third position and lowest in DU is 10.4%.
- *Occasional user* is highest in ADBUSO with 29.5% followed by ADTU with 29.2% as second and ADBUKH with 27.5% as third position and lowest in BU is 12.8%.

Library e- resources used frequency as *daily* is highest (29.2%), followed by *twice in a week* (25.5%) as second, *occasionally* (22.5%) as third, *once in a week* (21.2%) as lowest position among the universities.

5.2.12 Importance of using E-Resources

Table 40 Importance of Using E-resources (Priority)								
University	Priority	Not Applicable	More Information	Speed of Access	Easy Access	Reliability	Currency	Total
AU	Priority1	0	16	8	3	3	18	48
	Priority2	0	19	3	8	5	13	48
	Priority3	11	7	7	7	6	10	48
TU	Priority1	0	12	6	8	6	16	48
	Priority2	0	14	6	8	3	17	48
	Priority3	17	7	7	2	7	8	48
GU	Priority1	0	15	7	9	5	12	48
	Priority2	0	12	4	8	8	16	48
	Priority3	19	11	7	2	2	7	48
DU	Priority1	0	14	8	6	5	15	48
	Priority2	1	14	5	6	4	18	48
	Priority3	17	8	6	3	5	9	48
AAU	Priority1	0	16	4	3	0	21	44
	Priority2	0	18	6	7	6	7	44
	Priority3	20	3	2	7	2	10	44
BU	Priority1	1	15	6	6	5	14	47
	Priority2	1	15	6	5	6	14	47
	Priority3	16	6	6	6	3	10	47
KKHSOU	Priority1	0	14	8	2	3	13	40
	Priority2	0	12	4	6	3	15	40
	Priority3	18	4	2	5	4	7	40
ADBUAZ	Priority1	0	11	8	8	4	10	41
	Priority2	0	10	7	4	6	14	41
	Priority3	20	8	1	1	1	10	41
ADBUSO	Priority1	0	16	3	6	3	16	44
	Priority2	1	13	3	5	8	14	44
	Priority3	18	7	6	3	2	8	44
ADBUKH	Priority1	0	7	7	9	10	7	40
	Priority2	0	7	5	7	4	17	40
	Priority3	16	10	1	4	2	7	40
ADTU	Priority1	0	10	8	10	7	13	48
	Priority2	1	10	7	7	4	19	48
	Priority3	18	12	2	5	4	7	48
KU	Priority1	0	11	7	3	4	17	42
	Priority2	0	15	5	5	3	14	42

	Priority3	20	8	2	3	2	7	42
Total	Priority1	1	157	80	73	55	172	538
	Priority2	4	159	61	76	60	178	538
	Priority3	210	91	49	48	40	100	538

Table 40.1 Importance of Using E-resources (University wise) (WMS&R)						
University	WMS&R	More Information	Speed of Access	Easy Access	Reliability	Currency
AU	W. M. S.	1.938	0.771	0.667	0.521	1.875
	R	1	3	4	5	2
TU	W. M. S.	1.479	0.771	0.875	0.646	1.875
	R	2	4	3	5	1
GU	W. M. S.	1.667	0.75	0.938	0.688	1.563
	R	1	4	3	5	2
DU	W. M. S.	1.625	0.833	0.688	0.583	1.875
	R	2	3	4	5	1
AAU	W. M. S.	1.977	0.591	0.682	0.318	1.977
	R	1	4	3	5	1
BU	W. M. S.	1.723	0.766	0.723	0.638	1.702
	R	1	3	4	5	2
KKHSOU	W. M. S.	1.75	0.85	0.575	0.475	1.9
	R	2	3	4	5	1
ADBUAZ	W. M. S.	1.488	0.951	0.805	0.61	1.659
	R	2	3	4	5	1
ADBUSO	W. M. S.	1.841	0.477	0.705	0.614	1.909
	R	2	5	3	4	1
ADBUKH	W. M. S.	1.125	0.8	1.125	1.0	1.55
	R	2	5	2	4	1
ADTU	W. M. S.	1.292	0.833	1.021	0.688	1.75
	R	2	4	3	5	1
KU	W. M. S.	1.69	0.786	0.524	0.476	2.048
	R	2	3	4	5	1
Total	W. M. S.	1.636	0.764	0.779	0.604	1.807
	R	2	4	3	5	1

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

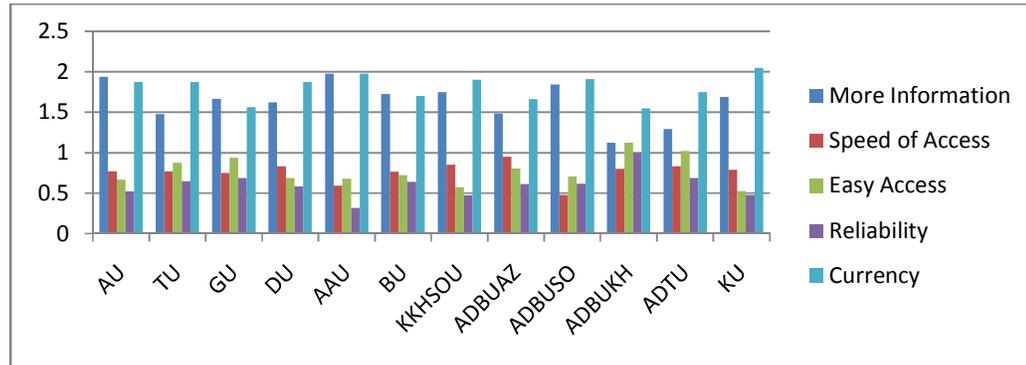


Figure 42 Importance of using e-resources

Table number 40.1 and figure number 42 stated that *importance of using e-resources-*

- In AU is highest with *more information* which scored 1.938; followed by *currency* (1.875) as second and *speed of access* (0.771) as third priority.
- In TU is highest as *currency* scored 1.875 followed by *more information* scored 1.479 as second and *easy access* scored 0.875 as third priority.
- In GU is highest as *more information* scored 1.667 followed by *currency* scored 1.563 as second and *easy access* scored 0.938 as third priority.
- In DU is highest as *currency* scored 1.875 followed by *more information* scored 1.625 as second and *speed of access* scored 0.833 as third priority.
- In AAU is highest as *more information* and *currency* scored 1.977 each followed by *easy access* scored 0.682 as second and *speed of access* scored 0.591 as third priority.
- In BU is highest with *more information* which scored 1.723; followed by *currency* (1.702) as second and *speed of access* (0.766) as third priority.
- In KKHSOU is highest as *currency* scored 1.90 followed by *more information* scored 1.75 as second and *speed of access* scored 0.85 as third priority.
- In ADBUAZ is highest as *currency* scored 1.659 followed by *more information* scored 1.488 as second and *speed of access* scored 0.951 as third priority.

- In ADBUSO is highest as *currency* scored 1.909 followed by *more information* scored 1.841 as second and *easy access* scored 0.705 as third priority.
- In ADBUKH is highest as *currency* scored 1.55 followed by *more information* and *easy access* scored 1.125 each as second and *reliability* scored 1.0 as third priority.
- In ADTU is highest as *currency* scored 1.75 followed by *more information* scored 1.292 as second and *easy access* scored 1.021 as third priority.
- In KU is highest as *currency* scored 2.048 followed by *more information* scored 1.69 as second and *speed of access* scored 0.786 as third priority.

Importance of using e-resources as *currency* is highest which scored 1.807, followed by *more information* scored 1.636 as second and *easy access* scored 0.779 as third priority among the universities.

Importance	WMS&R	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
More Information	W. M. S.	1.938	1.479	1.667	1.625	1.977	1.723	1.75	1.488	1.841	1.125	1.292	1.69
	R	2	10	7	8	1	5	4	9	3	12	11	6
Speed of Access	W. M. S.	0.771	0.771	0.75	0.833	0.591	0.766	0.85	0.951	0.477	0.8	0.833	0.786
	R	7	7	10	3	11	9	2	1	12	5	3	6
Easy Access	W. M. S.	0.667	0.875	0.938	0.688	0.682	0.723	0.575	0.805	0.705	1.125	1.021	0.524
	R	10	4	3	8	9	6	11	5	7	1	2	12
Reliability	W. M. S.	0.521	0.646	0.688	0.583	0.318	0.638	0.475	0.61	0.614	1.0	0.688	0.476
	R	9	4	2	8	12	5	11	7	6	1	2	10
Currency	W. M. S.	1.875	1.875	1.563	1.875	1.977	1.702	1.9	1.659	1.909	1.55	1.75	2.048
	R	5	5	11	5	2	9	4	10	3	12	8	1

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

Table number 40.2 stated that *importance of using e-resources-*

- For *more information* is highest in AAU scored 1.977 followed by AU scored 1.938 as second and ADBUSO scored 1.841 as third position.
- For *speed of access* is highest in ADBUAZ scored 0.951 followed by KKHSOU scored 0.85 as second and DU scored 0.833 as third position.
- For *easy access* is highest in ADBUKH scored 1.125 followed by ADTU scored 1.021 as second and GU scored 0.938 as third position.
- For *reliability* is highest in ADBUKH scored 1.0 followed by ADTU and GU scored 0.688 each as second and TU scored 0.646 as third position.
- For *currency* is highest in KU scored 2.048 followed by AAU scored 1.977 as second and ADBUSO scored 1.909 as third position.

5.2.13 E-Resources user prefers to use most

Table 41 E-resources User Prefer to use most (Priority)											
University	Priority	Not Applicable	E- Books	E- Research Reports	E- Learning Materials	E- Reference Sources	E-Journal and Magazines	E-Thesis and Dissertations	Abstracting and Indexing Databases	E- News Paper	Total
AU	Priority1	0	11	2	3	10	15	6	1	0	48
	Priority2	0	16	6	0	8	10	6	1	1	48
	Priority3	13	2	6	5	2	3	6	7	4	48
TU	Priority1	0	12	4	3	7	11	8	2	1	48
	Priority2	1	14	3	4	4	14	2	4	2	48
	Priority3	16	4	0	5	2	5	5	6	5	48
GU	Priority1	0	15	3	1	5	12	8	2	2	48
	Priority2	0	13	1	1	5	14	7	4	3	48
	Priority3	15	5	2	6	0	1	7	7	5	48
DU	Priority1	0	15	3	1	6	15	6	1	1	48
	Priority2	0	16	4	5	2	12	6	2	1	48
	Priority3	18	3	1	3	1	4	6	6	6	48
AAU	Priority1	0	18	1	2	5	13	3	2	0	44
	Priority2	1	16	6	0	3	11	5	0	2	44
	Priority3	15	1	2	5	1	2	7	6	5	44
BU	Priority1	1	15	3	4	5	12	5	1	1	47

	Priority2	2	14	4	1	2	11	7	3	3	47
	Priority3	18	2	3	6	2	3	4	4	5	47
KKHSOU	Priority1	0	14	1	1	6	9	8	1	0	40
	Priority2	0	13	3	0	3	12	7	1	1	40
	Priority3	13	5	2	5	3	0	5	3	4	40
ADBUAZ	Priority1	0	15	2	2	5	11	5	1	0	41
	Priority2	2	12	3	3	1	15	5	0	0	41
	Priority3	18	4	1	2	3	2	4	3	4	41
ADBUSO	Priority1	0	9	3	2	4	16	8	2	0	44
	Priority2	3	19	2	1	4	9	5	0	1	44
	Priority3	16	4	1	3	0	2	6	7	5	44
ADBUKH	Priority1	0	8	3	3	2	11	5	1	7	40
	Priority2	10	7	1	10	0	11	0	1	0	40
	Priority3	29	1	1	1	0	1	0	2	5	40
ADTU	Priority1	0	13	3	3	6	10	7	1	5	48
	Priority2	11	8	1	6	1	15	2	2	2	48
	Priority3	29	4	1	1	0	1	1	5	6	48
KU	Priority1	0	14	2	1	4	12	4	3	2	42
	Priority2	7	13	4	2	2	9	4	0	1	42
	Priority3	12	1	5	7	1	4	6	2	4	42
Total	Priority1	1	159	30	26	65	147	73	18	19	538
	Priority2	37	161	38	33	35	143	56	18	17	538
	Priority3	212	36	25	49	15	28	57	58	58	538

University	WMS&R	E-Books	E-Research Reports	E-Learning Materials	E-Reference Sources	E-Journal and Magazines	E-Thesis and Dissertations	Abstracting and Indexing Databases	E-News Paper
AU	W. M. S.	1.396	0.5	0.292	1	1.417	0.75	0.25	0.125
	R	2	5	6	3	1	4	7	8
TU	W. M. S.	1.417	0.375	0.458	0.646	1.375	0.688	0.417	0.25
	R	1	7	5	4	2	3	6	8
GU	W. M. S.	1.583	0.271	0.229	0.521	1.354	0.938	0.438	0.354
	R	1	7	8	4	2	3	5	6
DU	W. M. S.	1.667	0.375	0.333	0.479	1.521	0.75	0.271	0.229
	R	1	5	6	4	2	3	7	8
AAU	W. M. S.	1.977	0.386	0.25	0.5	1.432	0.591	0.273	0.205

	R	1	5	7	4	2	3	6	8
BU	W. M. S.	1.596	0.426	0.426	0.447	1.298	0.702	0.277	0.298
	R	1	5	5	4	2	3	8	7
KKHSOU	W. M. S.	1.825	0.275	0.2	0.675	1.275	1.075	0.2	0.15
	R	1	5	6	4	2	3	6	8
ADBUAZ	W. M. S.	1.78	0.317	0.341	0.488	1.585	0.707	0.146	0.098
	R	1	6	5	4	2	3	7	8
ADBUSO	W. M. S.	1.568	0.318	0.25	0.455	1.545	0.909	0.295	0.159
	R	1	5	7	4	2	3	6	8
ADBUKH	W. M. S.	0.975	0.3	0.75	0.15	1.4	0.375	0.175	0.65
	R	2	6	3	8	1	5	7	4
ADTU	W. M. S.	1.229	0.25	0.458	0.417	1.271	0.542	0.25	0.521
	R	2	7	5	6	1	3	7	4
KU	W. M. S.	1.643	0.452	0.333	0.405	1.381	0.619	0.262	0.286
	R	1	4	6	5	2	3	8	7
Total	W. M. S.	1.552	0.355	0.359	0.52	1.403	0.721	0.275	0.277
	R	1	6	5	4	2	3	8	7

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

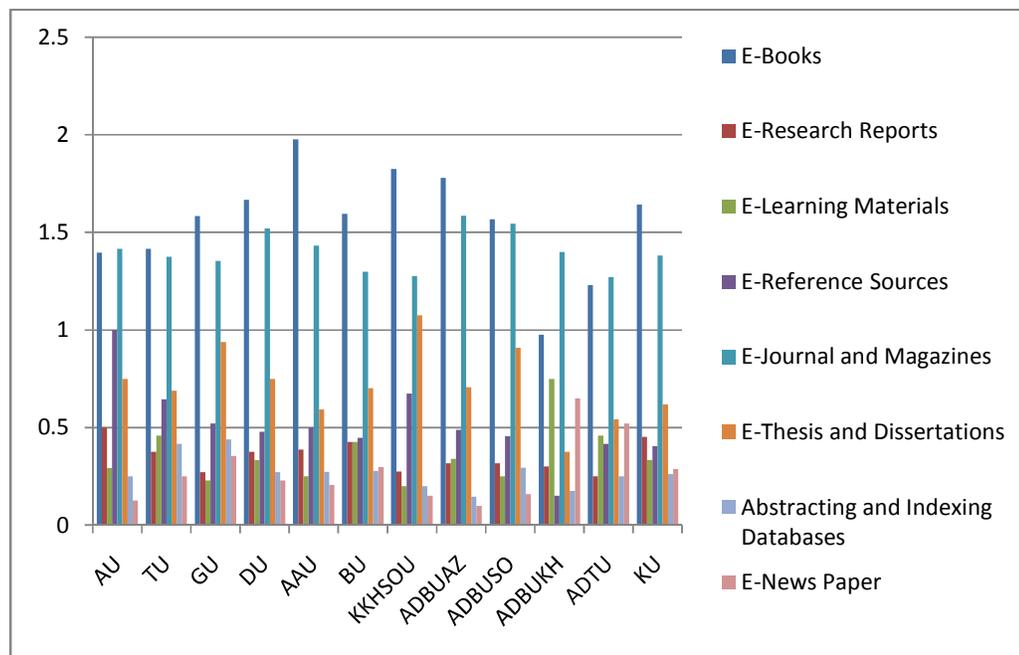


Figure 43 E-resources user prefer to use most

Table number 41.1 and figure number 43 stated that *most preferred e-resources by the users-*

- In AU, *e-journal and magazines* scored 1.417 as first preference, followed by *e-books* scored 1.396 as second and *e-reference sources* scored 1.0 as third preference.
- In TU, *e-books* scored 1.417 as first preference, followed by *e-journal and magazines* scored 1.375 as second and *e-thesis and dissertations* scored 0.688 as third preference.
- In GU, *e-books* scored 1.583 as first preference, followed by *e-journal and magazines* scored 1.354 as second and *e-thesis and dissertations* scored 0.938 as third preference.
- In DU, *e-books* scored 1.667 as first preference, followed by *e-journal and magazines* scored 1.521 as second and *e-thesis and dissertations* scored 0.75 as third preference.
- In AAU, *e-books* scored 1.977 as first preference, followed by *e-journal and magazines* scored 1.432 as second and *e-thesis and dissertations* scored 0.591 as third preference.
- In BU, *e-books* scored 1.596 as first preference, followed by *e-journal and magazines* scored 1.298 as second and *e-thesis and dissertations* scored 0.702 as third preference.
- In KKHSOU, *e-books* scored 1.825 as first preference, followed by *e-journal and magazines* scored 1.275 as second and *e-thesis and dissertations* scored 1.075 as third preference.
- In ADBUAZ, *e-books* scored 1.78 as first preference, followed by *e-journal and magazines* scored 1.585 as second and *e-thesis and dissertations* scored 0.707 as third preference.
- In ADBUSO, *e-books* scored 1.568 as first preference, followed by *e-journal and magazines* scored 1.545 as second and *e-thesis and dissertations* scored 0.909 as third preference.

- In ADBUKH, *e-journal and magazines* scored 1.4 as first preference, followed by *e-books* scored 0.975 as second and *e-learning materials* scored 0.75 as third preference.
- In ADTU, *e-journal and magazines* scored 1.271 as first preference, followed by *e-books* scored 1.229 as second and *e-thesis and dissertations* scored 0.542 as third preference.
- In KU, *e-books* scored 1.643 as first preference, followed by *e-journal and magazines* scored 1.381 as second and *e-thesis and dissertations* scored 0.619 as third preference.

E-books is the highest choice by user scored 1.552 followed by *e-journal and magazines* scored 1.403 as second and *e-thesis and dissertations* scored 0.721 as third priority in all universities.

E-Resources	WMS&R	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
E-Books	W. M. S.	1.396	1.417	1.583	1.667	1.977	1.596	1.825	1.78	1.568	0.975	1.229	1.643
	R	10	9	7	4	1	6	2	3	8	12	11	5
E-Research Reports	W. M. S.	0.5	0.375	0.271	0.375	0.386	0.426	0.275	0.317	0.318	0.3	0.25	0.452
	R	1	5	11	5	4	3	10	8	7	9	12	2
E-Learning Materials	W. M. S.	0.292	0.458	0.229	0.333	0.25	0.426	0.2	0.341	0.25	0.75	0.458	0.333
	R	8	2	11	6	9	4	12	5	9	1	2	6
E-Reference Sources	W. M. S.	1	0.646	0.521	0.479	0.5	0.447	0.675	0.488	0.455	0.15	0.417	0.405
	R	1	3	4	7	5	9	2	6	8	12	10	11
E-Journal and Magazines	W. M. S.	1.417	1.375	1.354	1.521	1.432	1.298	1.275	1.585	1.545	1.4	1.271	1.381
	R	5	8	9	3	4	10	11	1	2	6	12	7
E-Thesis and Dissertations	W. M. S.	0.75	0.688	0.938	0.75	0.591	0.702	1.075	0.707	0.909	0.375	0.542	0.619
	R	4	8	2	4	10	7	1	6	3	12	11	9
Abstracting and Indexing Databases	W. M. S.	0.25	0.417	0.438	0.271	0.273	0.277	0.2	0.146	0.295	0.175	0.25	0.262
	R	8	2	1	6	5	4	10	12	3	11	8	7
E-News Paper	W. M. S.	0.125	0.25	0.354	0.229	0.205	0.298	0.15	0.098	0.159	0.65	0.521	0.286
	R	11	6	3	7	8	4	10	12	9	1	2	5

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

Table number 41.2 stated that *the e-resource user prefer to use most as-*

- *E-book* is highest in AAU scored 1.977 followed by KKHSOU scored 1.825 as second and ADBUAZ scored 1.78 as third position.
- *E-research report* is highest in AU scored 0.5 followed by KU scored 0.452 as second and BU scored 0.426 as third position.
- *E-learning material* is highest in ADBUKH scored 0.75 followed by TU and ADTU scored 0.458 each as second and BU scored 0.426 as third position.
- *E-reference source* is highest in AU scored 1.0 followed by KKHSOU scored 0.675 as second and TU scored 0.646 as third position.
- *E-journal and magazine* is highest in ADBUAZ scored 1.585 followed by ADBUSO scored 1.545 as second and DU scored 1.521 as third position.
- *E-thesis and dissertation* is highest in KKHSOU scored 1.075 followed by GU scored 0.938 as second and ADBUSO scored 0.909 as third position.
- *Abstracting and indexing databases* is highest in GU scored 0.438 followed by TU scored 0.417 as second and ADBUSO scored 0.295 as third position.
- *E-news-paper* is highest in ADBUKH scored 0.65 followed by ADTU scored 0.521 as second and GU scored 0.354 as third position.

5.2.14 Barriers faced while accessing the e-resources

University	Priority	Not Applicable	a	b	c	d	e	Total
AU	Priority1	0	16	0	7	25	0	48
	Priority2	4	13	17	0	11	3	48
	Priority3	25	5	9	1	6	2	48
TU	Priority1	17	10	2	6	10	3	48
	Priority2	19	10	7	0	10	2	48
	Priority3	27	1	9	3	6	2	48

GU	Priority1	7	13	1	7	18	2	48
	Priority2	8	11	10	1	13	5	48
	Priority3	24	3	9	4	4	4	48
DU	Priority1	22	7	0	6	9	4	48
	Priority2	23	6	7	0	10	2	48
	Priority3	33	2	6	2	2	3	48
AAU	Priority1	13	8	0	5	18	0	44
	Priority2	18	7	10	0	7	2	44
	Priority3	32	2	5	0	3	2	44
BU	Priority1	16	11	1	4	14	1	47
	Priority2	18	4	6	5	10	4	47
	Priority3	21	8	2	9	4	3	47
KKHSOU	Priority1	18	5	2	0	15	0	40
	Priority2	19	7	4	5	3	2	40
	Priority3	24	5	4	3	4	0	40
ADBUAZ	Priority1	14	7	2	5	13	0	41
	Priority2	14	8	6	4	5	4	41
	Priority3	18	6	5	5	5	2	41
ADBUSO	Priority1	7	14	5	4	12	2	44
	Priority2	7	7	5	6	13	6	44
	Priority3	13	5	4	11	9	2	44
ADBUKH	Priority1	16	6	4	6	4	4	40
	Priority2	16	6	3	5	6	4	40
	Priority3	17	3	5	3	8	4	40
ADTU	Priority1	12	7	6	12	7	4	48
	Priority2	12	11	3	3	13	6	48
	Priority3	15	7	8	6	7	5	48

KU	Priority1	0	13	1	7	18	3	42
	Priority2	1	9	9	4	12	7	42
	Priority3	8	10	8	6	7	3	42
Total	Priority1	142	117	24	69	163	23	538
	Priority2	159	99	87	33	113	47	538
	Priority3	257	57	74	53	65	32	538

a) Inadequate infrastructure facilities, b) Very short time to access, c) Power failure, d) Low speed of internet, e) Insufficient assistance by library staff

Table 42.1 Barriers faced while accessing E-resources (University wise) (WMS&R)						
University	WMS&R	a	b	c	d	e
AU	W. M. S.	1.646	0.896	0.458	2.146	0.167
	R	2	3	4	1	5
TU	W. M. S.	1.063	0.604	0.438	1.167	0.313
	R	2	3	4	1	5
GU	W. M. S.	1.333	0.667	0.563	1.75	0.417
	R	2	3	4	1	5
DU	W. M. S.	0.729	0.417	0.417	1.021	0.396
	R	2	3	3	1	5
AAU	W. M. S.	0.909	0.568	0.341	1.614	0.136
	R	2	3	4	1	5
BU	W. M. S.	1.043	0.298	0.404	0.511	0.234
	R	1	4	3	2	5
KKHSOU	W. M. S.	0.85	0.45	0.325	1.375	0.1
	R	2	3	4	1	5
ADBUAZ	W. M. S.	1.049	0.561	0.683	1.317	0.244
	R	2	4	3	1	5

ADBUSO	W. M. S.	1.386	0.659	0.795	1.614	0.455
	R	2	4	3	1	5
ADBUKH	W. M. S.	0.825	0.575	0.775	0.8	0.6
	R	1	5	3	2	4
ADTU	W. M. S.	1.042	0.667	1	1.125	0.604
	R	2	4	3	1	5
KU	W. M. S.	1.595	0.69	0.833	2.024	0.619
	R	2	4	3	1	5
Total	W. M. S.	1.126	0.595	0.606	1.45	0.362
	R	2	4	3	1	5

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

a) Inadequate infrastructure facilities, b) Very short time to access, c) Power failure, d) Low speed of internet, e) Insufficient assistance by library staff

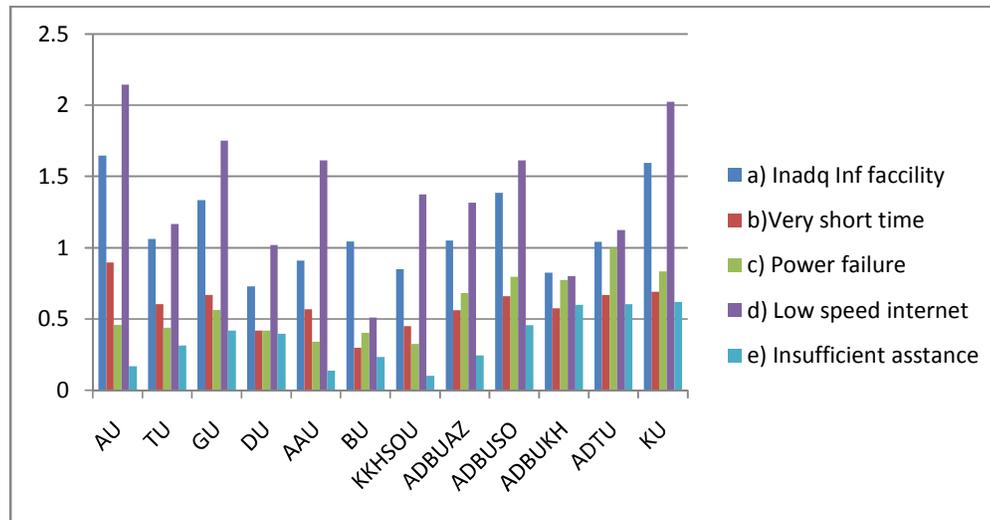


Figure 44 Barriers faced while accessing e-resources

Table number 42.1 and figure number 44 stated that *barriers faced while accessing the e-resources-*

- In AU user voted highest as *low speed of internet* scored 2.146 followed by *inadequate infrastructure facilities* scored 1.646 as second and *very short time to access* scored 0.896 as third.
- In TU user voted highest as *low speed of internet* scored 1.167 followed by *inadequate infrastructure facilities* scored 1.063 as second and *very short time to access* scored 0.604 as third.
- In GU user voted highest as *low speed of internet* scored 1.75 followed by *inadequate infrastructure facilities* scored 1.333 as second and *very short time to access* scored 0.667 as third.
- In DU user voted highest as *low speed of internet* scored 1.021 followed by *inadequate infrastructure facilities* scored 0.729 as second and *very short time to access* and *power failure* scored 0.417 each as third.
- In AAU user voted highest as *low speed of internet* scored 1.614 followed by *inadequate infrastructure facilities* scored 0.909 as second and *very short time to access* scored 0.568 as third.
- In BU user voted highest as *inadequate infrastructure facilities* scored 1.043 followed by *low speed of internet* scored 0.511 as second and *power failure* scored 0.404 as third.
- In KKHSOU user voted highest as *low speed of internet* scored 1.375 followed by *inadequate infrastructure facilities* scored 0.85 as second and *very short time to access* scored 0.45 as third.
- In ADBUAZ user voted highest as *low speed of internet* scored 1.317 followed by *inadequate infrastructure facilities* scored 1.049 as second and *power failure* scored 0.683 as third.
- In ADBUSO user voted highest as *low speed of internet* scored 1.614 followed by *inadequate infrastructure facilities* scored 1.386 as second and *power failure* scored 0.795 as third.
- In ADBUKH user voted highest as *inadequate infrastructure facilities* scored 0.825 followed by *low speed of internet* scored 0.8 as second and *power failure* scored 0.775 as third.

- In ADTU user voted highest as *low speed of internet* scored 1.125 followed by *inadequate infrastructure facilities* scored 1.042 as second and *power failure* scored 1.0 as third.
- In KU user voted highest as *low speed of internet* scored 2.024 followed by *inadequate infrastructure facilities* scored 1.595 as second and *power failure* scored 0.833 as third.

Barriers faced while accessing the e-resources is voted highest as *low speed of internet* scored 1.45 followed by *inadequate infrastructure facilities* scored 1.126 as second and *power failure* scored 0.606 as third among the universities.

Table 42.2 Barriers faced while accessing E-resources (WMS&R)													
Barrier s	WMS&R	AU	TU	GU	DU	AAU	BU	KKHS OU	ADB UAZ	ADB USO	ADBUK H	ADTU	KU
a	W. M. S.	1.646	1.06 3	1.33 3	0.72 9	0.90 9	1.04 3	0.85	1.04 9	1.38 6	0.825	1.042	1.595
	R	1	5	4	12	9	7	10	6	3	11	8	2
b	W. M. S.	0.896	0.60 4	0.66 7	0.41 7	0.56 8	0.29 8	0.45	0.56 1	0.65 9	0.575	0.667	0.69
	R	1	6	3	11	8	12	10	9	5	7	3	2
c	W. M. S.	0.458	0.43 8	0.56 3	0.41 7	0.34 1	0.40 4	0.325	0.68 3	0.79 5	0.775	1	0.833
	R	7	8	6	9	11	10	12	5	3	4	1	2
d	W. M. S.	2.146	1.16 7	1.75	1.02 1	1.61 4	0.51 1	1.375	1.31 7	1.61 4	0.8	1.125	2.024
	R	1	8	3	10	4	12	6	7	4	11	9	2
e	W. M. S.	0.167	0.31 3	0.41 7	0.39 6	0.13 6	0.23 4	0.1	0.24 4	0.45 5	0.6	0.604	0.619
	R	10	7	5	6	11	9	12	8	4	3	2	1

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

a) Inadequate infrastructure facilities, b) Very short time to access, c) Power failure, d) Low speed of Internet, e) Insufficient assistance by Library staff

Table number 42.2 stated that *barriers faced while accessing the e-resources* as-

- *Inadequate infrastructure facilities* voted highest in AU scored 1.646 followed by KU scored 1.595 as second and ADBUSO scored 1.386 as third.
- *Very short time to access* voted highest in AU scored 0.896 followed by KU scored 0.69 as second and GU scored 0.667 as third.
- *Power failure* voted highest in ADTU scored 1.0 followed by KU scored 0.833 as second and ADBUSO scored 0.795 as third.
- *Low speed of internet* voted highest in AU scored 2.146 followed by KU scored 2.024 as second and GU scored 1.75 as third.
- *Insufficient assistance by library staff* voted highest in KU scored 0.619 followed by ADTU scored 0.604 as second and ADBUKH scored 0.6 as third.

5.2.15 User uses the content of E-Resources

Table 43 Way the User Uses the Content of E-resources (Priority)						
University	Priority	Not Applicable	Read only	Download	Take a Print	Total
AU	Priority1	0	22	18	8	48
	Priority2	0	18	18	12	48
	Priority3	19	8	9	12	48
TU	Priority1	0	20	20	8	48
	Priority2	3	17	16	12	48
	Priority3	23	10	7	8	48
GU	Priority1	0	23	14	11	48
	Priority2	3	16	18	11	48
	Priority3	28	8	9	3	48
DU	Priority1	0	20	20	8	48
	Priority2	4	19	13	12	48
	Priority3	28	7	10	3	48

AAU	Priority1	0	19	16	9	44
	Priority2	1	18	14	11	44
	Priority3	16	6	10	12	44
BU	Priority1	3	21	18	5	47
	Priority2	6	15	14	12	47
	Priority3	27	6	7	7	47
KKHSOU	Priority1	0	19	18	3	40
	Priority2	1	14	13	12	40
	Priority3	20	6	6	8	40
ADBUAZ	Priority1	0	18	15	8	41
	Priority2	2	13	13	13	41
	Priority3	22	9	7	3	41
ADBUSO	Priority1	0	19	18	7	44
	Priority2	2	17	12	13	44
	Priority3	23	7	8	6	44
ADBUKH	Priority1	0	18	13	9	40
	Priority2	5	16	13	6	40
	Priority3	20	4	8	8	40
ADTU	Priority1	0	22	20	6	48
	Priority2	6	17	12	13	48
	Priority3	24	7	7	10	48
KU	Priority1	0	22	13	7	42
	Priority2	3	14	15	10	42
	Priority3	20	5	8	9	42
Total	Priority1	3	243	203	89	538
	Priority2	36	194	171	137	538
	Priority3	270	83	96	89	538

Table 43.1 Way the User Uses the Content of E-resources (University wise) (WMS&R)				
University	WMS&R	Read only	Download	Take a Print
AU	W. M. S.	2.292	2.063	1.25
	R	1	2	3
TU	W. M. S.	2.167	2.063	1.167
	R	1	2	3
GU	W. M. S.	2.271	1.813	1.208
	R	1	2	3
DU	W. M. S.	2.188	2	1.063
	R	1	2	3
AAU	W. M. S.	2.25	1.955	1.386
	R	1	2	3
BU	W. M. S.	2.106	1.894	0.979
	R	1	2	3
KKHSOU	W. M. S.	2.275	2.15	1.025
	R	1	2	3
ADBUAZ	W. M. S.	2.171	1.902	1.293
	R	1	2	3
ADBUSO	W. M. S.	2.227	1.955	1.205
	R	1	2	3
ADBUKH	W. M. S.	2.25	1.825	1.175
	R	1	2	3
ADTU	W. M. S.	2.229	1.896	1.125
	R	1	2	3

KU	W. M. S.	2.357	1.833	1.19
	R	1	2	3
Total	W. M. S.	2.23	1.946	1.171
	R	1	2	3

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

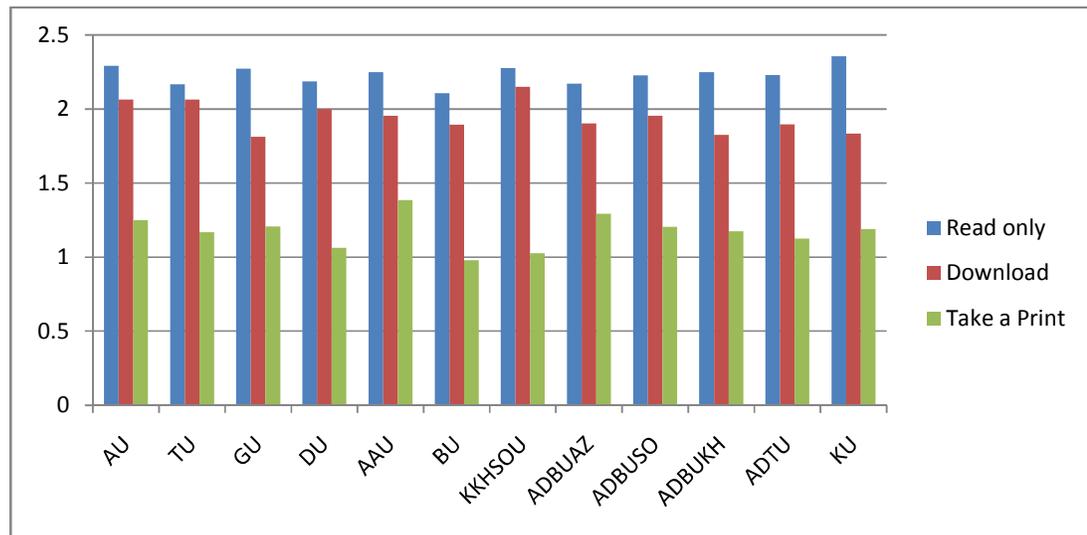


Figure 45 Way the user uses the content of e-resources

Table number 43.1 and figure number 45 stated that way of user to use the content of e-resources-

- In AU is highest in the form of *read only* scored 2.292 followed by *download in storage device* scored 2.063 as second and *take a print* scored 1.25 as third priority.
- In TU is highest in the form of *read only* scored 2.167 followed by *download in storage device* scored 2.063 as second and *take a print* scored 1.167 as third priority.

- In GU is highest in the form of *read only* scored 2.271 followed by *download in storage device* scored 1.813 as second and *take a print* scored 1.208 as third priority.
- In DU is highest in the form of *read only* scored 2.188 followed by *download in storage device* scored 2.0 as second and *take a print* scored 1.063 as third priority.
- In AAU is highest in the form of *read only* scored 2.25 followed by *download in storage device* scored 1.955 as second and *take a print* scored 1.386 as third priority.
- In BU is highest in the form of *read only* scored 2.106 followed by *download in storage device* scored 1.894 as second and *take a print* scored 0.979 as third priority.
- In KKHSOU is highest in the form of *read only* scored 2.275 followed by *download in storage device* scored 2.15 as second and *take a print* scored 1.025 as third priority.
- In ADBUAZ is highest in the form of *read only* scored 2.171 followed by *download in storage device* scored 1.902 as second and *take a print* scored 1.293 as third priority.
- In ADBUSO is highest in the form of *read only* scored 2.227 followed by *download in storage device* scored 1.955 as second and *take a print* scored 1.205 as third priority.
- In ADBUKH is highest in the form of *read only* scored 2.25 followed by *download in storage device* scored 1.825 as second and *take a print* scored 1.175 as third priority.
- In ADTU is highest in the form of *read only* scored 2.229 followed by *download in storage device* scored 1.896 as second and *take a print* scored 1.125 as third priority.
- In KU is highest in the form of *read only* scored 2.357 followed by *download in storage device* scored 1.833 as second and *take a print* scored 1.19 as third priority.

The means of using the content of e-resources is highest in the form of *read only* scored 2.23 followed by *download in storage device* scored 1.946 as second and *take a print* scored 1.171 as third priority among the universities.

Way of use	WMS&R	AU	TU	GU	DU	AAU	BU	KKHSOU	ADBUAZ	ADBUSO	ADBUKH	ADTU	KU
Read only	W. M. S.	2.292	2.167	2.271	2.188	2.25	2.106	2.275	2.171	2.227	2.25	2.229	2.357
	R	2	11	4	9	5	12	3	10	8	5	7	1
Download	W. M. S.	2.063	2.063	1.813	2	1.955	1.894	2.15	1.902	1.955	1.825	1.896	1.833
	R	2	2	12	4	5	9	1	7	5	11	8	10
Take a Print	W. M. S.	1.25	1.167	1.208	1.063	1.386	0.979	1.025	1.293	1.205	1.175	1.125	1.19
	R	3	8	4	10	1	12	11	2	5	7	9	6

(WMS&R) denotes Weighted Mean Score and Rank, (W. M. S.) denotes Weighted Mean Score, (R) denotes Rank

Table number 43.2 stated that the *means of using the content of e-resources* in the form of-

- *Read only* is highest in KU scored 2.357 followed by AU scored 2.292 as second and KKHSOU scored 2.275 as third position.
- *Download in storage device* is highest in KKHSOU scored 2.15 followed by TU and AU scored 2.063 each as second and DU scored 2.0 as third position.
- *Take a print* is highest in AAU scored 1.386 followed by ADBUAZ scored 1.293 as second and AU scored 1.25 as third position.

5.2.16 User Satisfactions to E-Resources

Table 44 User Satisfactions to E-resources					
University	Not Applicable	Large Extent	Some Extent	Least Extent	Total
AU	0	26	21	1	48
	0.0%	54.2%	43.8%	2.1%	100.0%
TU	0	27	20	1	48
	0.0%	56.3%	41.7%	2.1%	100.0%
GU	0	30	16	2	48
	0.0%	62.5%	33.3%	4.2%	100.0%
DU	0	28	18	2	48
	0.0%	58.3%	37.5%	4.2%	100.0%
AAU	0	27	15	2	44
	0.0%	61.4%	34.1%	4.5%	100.0%
BU	7	12	25	3	47
	14.9%	25.5%	53.2%	6.4%	100.0%
KKHSOU	5	9	25	1	40
	12.5%	22.5%	62.5%	2.5%	100.0%
ADBUAZ	9	10	20	2	41
	22.0%	24.4%	48.8%	4.9%	100.0%
ADBUSO	10	9	23	2	44
	22.7%	20.5%	52.3%	4.5%	100.0%
ADBUKH	10	7	20	3	40
	25.0%	17.5%	50.0%	7.5%	100.0%
ADTU	25	9	12	2	48
	52.1%	18.8%	25.0%	4.2%	100.0%
KU	11	10	18	3	42

	26.2%	23.8%	42.9%	7.1%	100.0%
Total	77	204	233	24	538
	14.3%	37.9%	43.3%	4.5%	100.0%

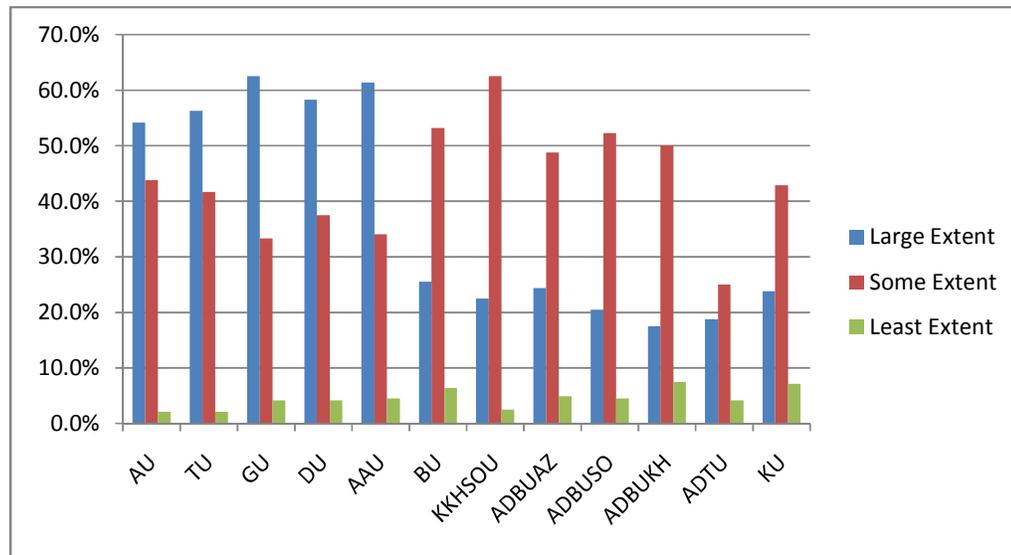


Figure 46 User satisfactions to e-resources

Table number 44 and figure number 46 showed that *user satisfaction to e-resources* (e-thesis and dissertations, e-research reports, e-learning materials, e-reference sources, e-magazines, e-newspaper and e-databases etc.)-

- In AU is highest as *large extent* scored 54.2% followed by *some extent* scored 43.8% as second and *least extent* scored 2.1% as third.
- In TU is highest as *large extent* scored 56.3% followed by *some extent* scored 41.7% as second and *least extent* scored 2.1% as third.
- In GU is highest as *large extent* scored 62.5% followed by *some extent* scored 33.3% as second and *least extent* scored 4.2% as third.
- In DU is highest as *large extent* scored 58.3% followed by *some extent* scored 37.5% as second and *least extent* scored 4.2% as third.

- In AAU is highest as *large extent* scored 61.4% followed by *some extent* scored 34.1% as second and *least extent* scored 4.5% as third.
- In BU is highest as *some extent* scored 53.2% followed by *large extent* scored 25.5% as second and *least extent* scored 6.4% as third.
- In KKHSOU is highest as *some extent* scored 62.5% followed by *large extent* scored 22.5% as second and *least extent* scored 2.5% as third.
- In ADBUAZ is highest as *some extent* scored 48.8% followed by *large extent* scored 24.4% as second and *least extent* scored 4.9% as third.
- In ADBUSO is highest as *some extent* scored 52.3% followed by *large extent* scored 20.5% as second and *least extent* scored 4.5% as third.
- In ADBUKH is highest as *some extent* scored 50% followed by *large extent* scored 17.5% as second and *least extent* scored 7.5% as third.
- In ADTU is highest as *some extent* scored 25% followed by *large extent* scored 18.8% as second and *least extent* scored 4.2% as third.
- In KU is highest as *some extent* scored 42.9% followed by *large extent* scored 23.8% as second and *least extent* scored 7.1% as third.

User satisfaction to e-resources voted highest as *some extent* scored 43.3% followed by *large extent* scored 37.9% as second and *least extent* scored 4.5% as third position among the universities.

It is seen from table number 44 that *user satisfaction to e-resources as-*

- *Large extent* is highest in GU scored 62.5% followed by AAU scored 61.4% as second and DU scored 58.3% as third position.
- *Some extent* is highest in KKHSOU scored 62.5% followed by BU scored 53.2% as second and ADBUSO scored 52.3% as third position.
- *Least extent* is highest in ADBUKH scored 7.5% followed by KU scored 7.1% as second and BU scored 6.4% as third position.

5.3 CONCLUSION

Collection management is the most important aspect of a library setting, which requires a proper collection development policy to make a library efficient. It has been seen that some of the university libraries of Assam do not have any written collection development policy. The library staff also lacks in proper ICT knowledge. So, the university libraries of Assam need to take a call on all the areas of lacking to make their respective libraries a better place for knowledge management.