

BANGLADESH RESEARCH AND EDUCATION NETWORK

NOC MONTHLY REPORT

July 2022

Prepared by
BdREN NOC



CONTENTS

1. COORDINATION ISSUES	1
2. LINK AVAILABILITY	1
3. MAJOR OUTAGE OF February 2022.....	5
4. TRAFFIC STATISTICS.....	5
5. TOTAL TRAFFIC	5
6. ONLINE EDUCATION	6
6.1 Institution Wise vSession Usage Statistics.....	6
➤ Public Universities and Colleges:	6
➤ Private Universities:	8
➤ Medical Colleges:	9
➤ Other Institution:	9
6.2 Institution Wise vSession Usage Graph	10
6.3 Institution Wise On-Prem Zoom Usage Statistics.....	12
6.4 BdREN Total Zoom Usage Statistics	15
6.5 Month-wise Number of Classes, Total Class Hours and Participants	15
7. INSTITUTION WISE MAX HPC USAGE	16
8. ACRONYMS.....	18

LIST OF TABLES

TABLE 1: INSTITUTION WISE LINK AVAILABILITY.....	1
TABLE 2: INSTITUTION WISE TRAFFIC STATISTICS.....	5
TABLE 3: TOTAL TRAFFIC	6
TABLE 4: vSESSION USAGE BY PUBLIC UNIVERSITIES AND COLLEGES.....	6
TABLE 5: vSESSION USAGE BY PRIVATE UNIVERSITY	8
TABLE 6: vSESSION USAGE BY MEDICAL COLLEGES.....	9
TABLE 7: vSESSION USAGE BY OTHER INSTITUTION.....	9
TABLE 8: INSTITUTION WISE ON-PREM ZOOM USAGE STATISTICS	12
TABLE 9: BdREN TOTAL ZOOM USAGE STATISTICS	15
TABLE 10: MONTH-WISE ZOOM USAGE STATISTICS.....	15
TABLE 11: INSTITUTION WISE MAX HPC USAGE.....	16

LIST OF FIGURES

FIGURE 1: INSTITUTION WISE LINK AVAILABILITY CONSIDERING “PLANNED MAINTENANCE” AS NON-OUTAGE.....	3
FIGURE 2: INSTITUTION WISE LINK AVAILABILITY CONSIDERING “PLANNED MAINTENANCE” AS OUTAGE	4
FIGURE 3: PUBLIC UNIVERSITY & COLLEGES vSESSION USAGE GRAPH	10
FIGURE 4: PRIVATE UNIVERSITY vSESSION USAGE GRAPH.....	11
FIGURE 5: MEDICAL COLLEGE vSESSION USAGE GRAPH	12
FIGURE 6: OTHER INSTITUTION vSESSION USAGE GRAPH.....	12
FIGURE 7: MONTH WISE ZOOM USAGE GRAPH IN LAST 1 YEAR.....	16
FIGURE 8: INSTITUTION WISE MAX HPS USAGE.....	17

1. COORDINATION ISSUES

Processed 327 mail updates between BdREN NOC and member institution.

2. LINK AVAILABILITY

Table 1: Institution Wise Link Availability

Name of Institutes	Outage (Minute)	Maintenance (Minute)	Availability (w/o Maintenance)	Availability (with Maintenance)
AUST			100.00%	100.00%
AUB			100.00%	100.00%
AUW			100.00%	100.00%
BARD			100.00%	100.00%
BARI			100.00%	100.00%
BAU			100.00%	100.00%
BDU			100.00%	100.00%
BFRI			100.00%	100.00%
BIDS			100.00%	100.00%
BJRI			100.00%	100.00%
BLRI			100.00%	100.00%
BoU	602	602	98.65%	98.65%
BRAC			100.00%	100.00%
BRRI			100.00%	100.00%
BRUR			100.00%	100.00%
BSMMU			100.00%	100.00%
BSMRAU			100.00%	100.00%
BSMRSTU			100.00%	100.00%
BU			100.00%	100.00%
BUBT			100.00%	100.00%
BUET			100.00%	100.00%
BUP	49	49	99.89%	99.89%
BUTex			100.00%	100.00%
CCN			100.00%	100.00%
CMC			100.00%	100.00%
CoU			100.00%	100.00%
CU			100.00%	100.00%
CUET			100.00%	100.00%
CVASU			100.00%	100.00%
DGHS			100.00%	100.00%
DIU			100.00%	100.00%
DMC			100.00%	100.00%
DU			100.00%	100.00%
DUET			100.00%	100.00%
EU			100.00%	100.00%
HSTU			100.00%	100.00%
ICMAB			100.00%	100.00%
IU			100.00%	100.00%
IUB			100.00%	100.00%

IUBAT			100.00%	100.00%
IUT			100.00%	100.00%
JKKNIU			100.00%	100.00%
JnU			100.00%	100.00%
JU			100.00%	100.00%
JUST			100.00%	100.00%
KU			100.00%	100.00%
KUET			100.00%	100.00%
LUS	540	540	98.79%	98.79%
MAGOMC			100.00%	100.00%
MBSTU			100.00%	100.00%
MIST	49	49	99.89%	99.89%
MIU			100.00%	100.00%
MMC			100.00%	100.00%
NINMAS			100.00%	100.00%
NSTU			100.00%	100.00%
NSU			100.00%	100.00%
NU			100.00%	100.00%
PSTU			100.00%	100.00%
PUST			100.00%	100.00%
RMC			100.00%	100.00%
RPMC			100.00%	100.00%
RU			100.00%	100.00%
RUET			100.00%	100.00%
SAU			100.00%	100.00%
SBAU			100.00%	100.00%
SBMC			100.00%	100.00%
SPARRSO			100.00%	100.00%
SSKMC			100.00%	100.00%
SSMC			100.00%	100.00%
SUST			100.00%	100.00%
VU			100.00%	100.00%

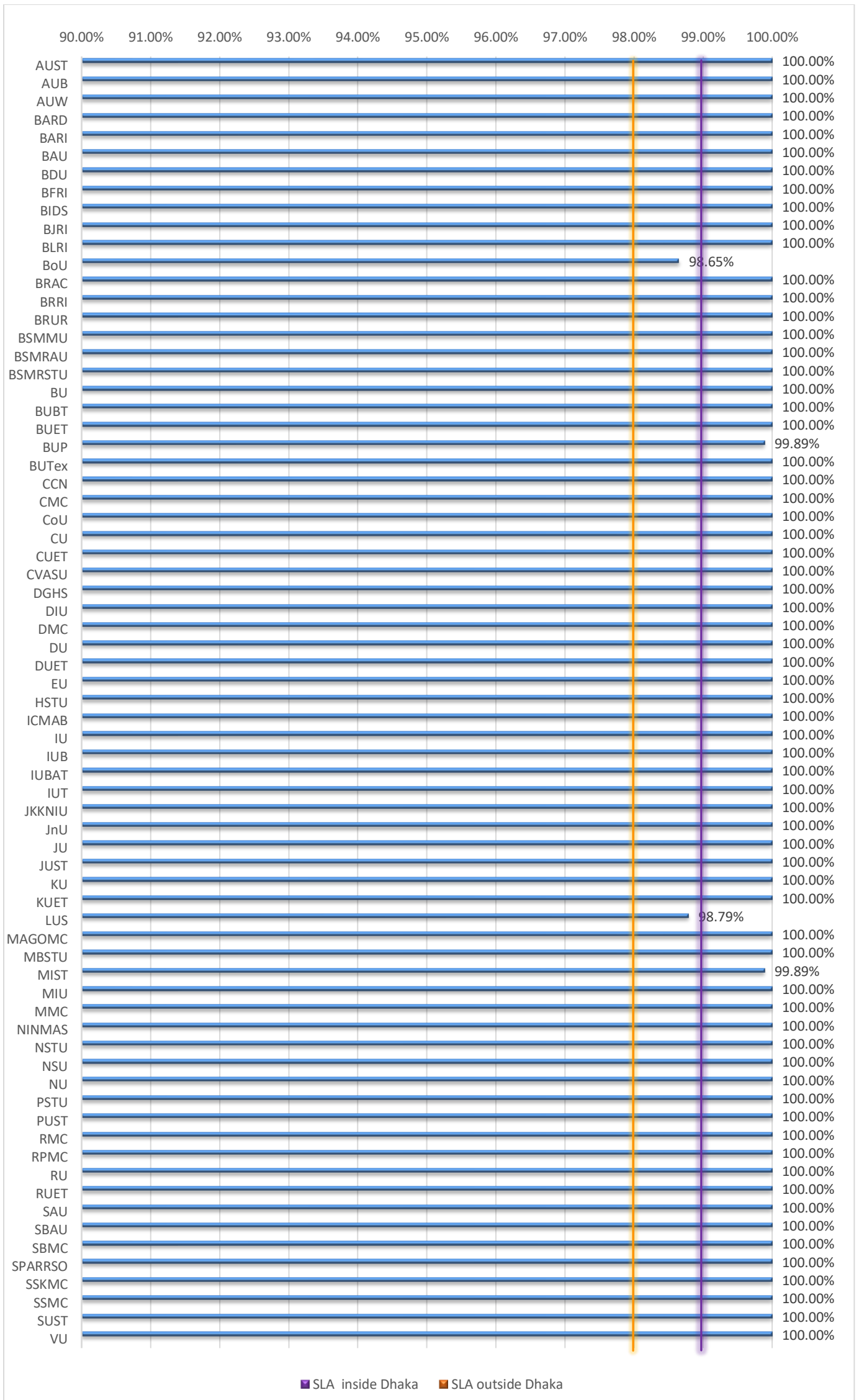


Figure 1: Institution Wise Link Availability considering “Planned Maintenance” as non- outage

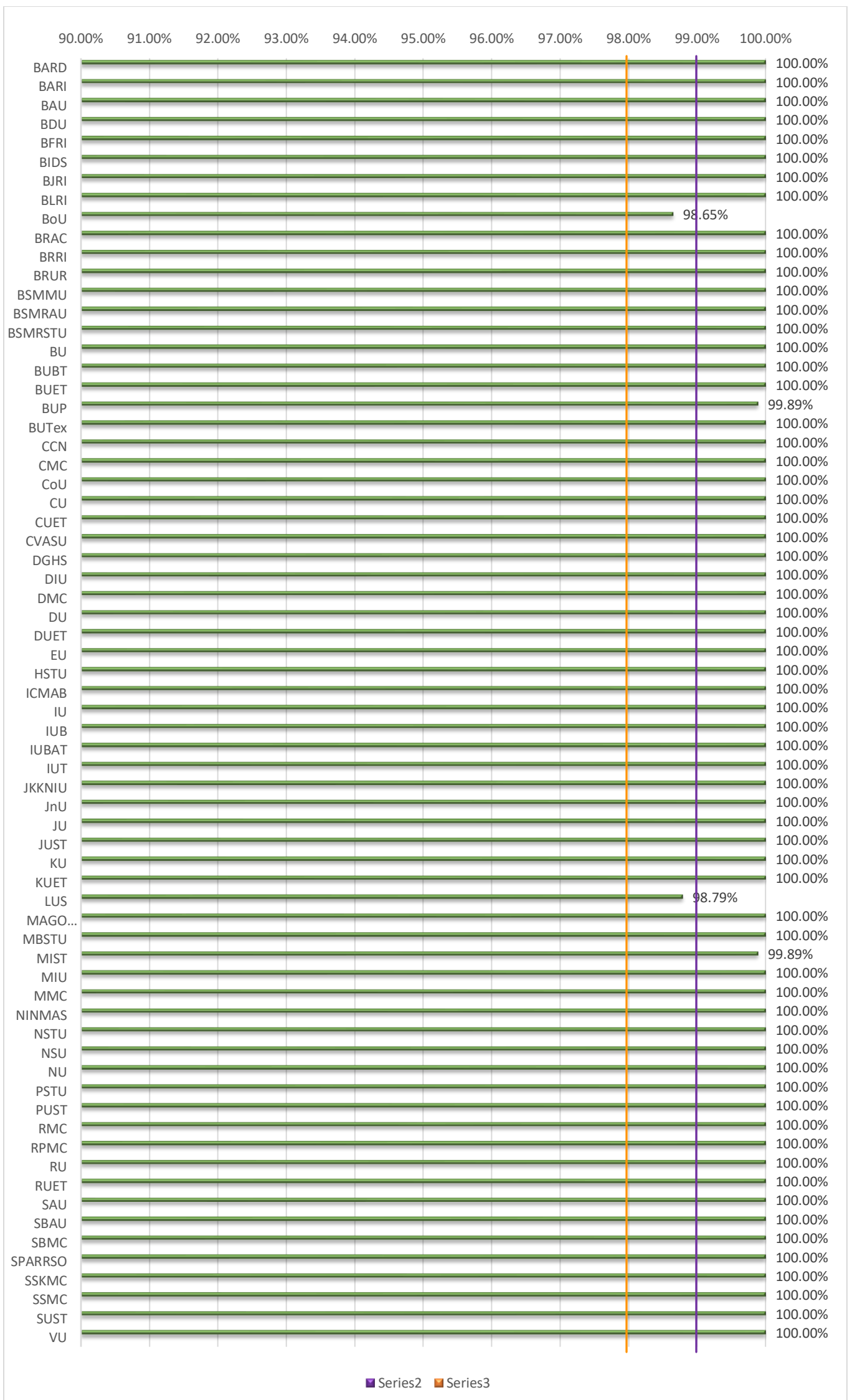


Figure 2: Institution Wise Link Availability considering "Planned Maintenance" as outage

3. MAJOR OUTAGE OF February 2022

❖ **Ticket#220729-0001**

Affected Member : BoU
Recovery Time : 602
SLA Compliance : Not fulfilled
Problem Details : There is fiber cut issue near National University gate for the Rural Electrification Board’s maintenance work. After restoring the fiber, the link is up and stable now.

❖ **Ticket#2207032315_4c8aba05**

Affected Member : BUP, MIST
Recovery Time : 49
SLA Compliance : Fulfilled
Problem Details : BUP EDGE router was down, as a result both the clients BUP and MIST were down. After logically tuning threshold value of NSU to BUP link, both clients are now up.

❖ **Ticket# 220707-0002, 220712-0001, 220713-0001, 220718-0001, 220718-0002, 220720-0003, 220721-0001, 220725-0001, 220726-0001, 220729-0002**

Affected Member : LUS
Recovery Time : 540
SLA Compliance : Fulfilled
Problem Details : As per NMSS Mr. Mahmudul, there were some fiber break issue near SUST several times over the month of July. After restoring the fiber, the mentioned link is and running.

4. TRAFFIC STATISTICS

Table 2: Institution Wise Traffic Statistics

INSTITUTION	TOTAL TRAFFIC		AVERAGE BW		MAXIMUM BW	
	IN	OUT	IN	OUT	IN	OUT
AUB	4.32	0.42813	12.91	1.23	79.23	9.83
AUST	1.87	0.16815	5.58	0.502	68.94	6.78
BARI	8.25	0.88056	24.63	2.63	157.47	22.62
BAU	316.59	22.05	945.28	65.83	1600	146.26
BDU-Dhaka	1.68791	0.871	2.98	0.175	16.3	0.016
BDU-Kalikor	7.6	0.8121	22.71	2.43	126.49	40.74
BFRI	2.38	0.12521	7.1	0.374	26.21	2.24
BJRI	0	0	0	0	0	0
BLRI	8.88	0.68897	26.52	2.06	89.61	13.3
BOU	19.33	5.39	58.53	16.33	252.41	54.25
BRAC	0	0	0	0	0	0
BRRRI	9.22	0.7067	27.55	2.11	124.5	13.06
BRUR	37.46	2.54	111.9	7.59	387.05	30.37
BSMMU	26.29	2.48	78.54	7.41	253.8	40.33
BSMRAAU	1.39746	0.30021	3.07	0.318	27.29	14.63
BSMRAAU Lalmonirhat	4.38	0.378	13.07	1.13	85.83	13.04
BSMRAU	66.21	4.17	197.77	12.44	482.83	58.31
BSMRSTU	20.79	1.61	62.09	4.81	248.32	23.36
BU	49.76	3.82	148.61	11.14	380.45	39.25
BUBT	2.28904	0.15472	6.71	0.456	62.75	7.64
BUET	256.56	37.49	410.13	57.33	1910.00	232.93
BUP	44.82904	7.62188	133.78	22.75	456.31	71.08
BUTex	21.48	1.66	64.17	5.95	241.58	36.58

INSTITUTION	TOTAL TRAFFIC		AVERAGE BW		MAXIMUM BW	
	IN	OUT	IN	OUT	IN	OUT
CCN	2.48	0.209	7.4	0.627	28.74	8.35
CoU	32.87	2.49	98.18	7.44	373.26	43.94
CU	104.81	10.18	313.06	30.41	752.07	85.85
CUET	161.32	15.49	458.86	45.24	1002	131.16
CVASU	48.45	3.32	144.73	9.92	349.42	30.83
DIU	10.5	142.11	24.61	482.76	167.41	2015
DU	297.08	38.23	887.33	114.2	1600	278.83
DUET	73.05	6.05	218.2	18.09	592.91	83.44
EU	5.512	0.89448	16.25	2.65	124.55	19.58
EWU	0	0	0	0	0	0
HSTU	3.99	0.284	11.92	0.85	99.56	12.96
ICMAB	1.565	1.43	4.66494	4.39987	44.41973	38.7607
IU	110.86	7.43	331.13	22.2	942.54	77.27
IUB	0.463	0.052	1.38	0.157	22.83	7.28
IUBAT	5.33	0.53974	15.93	1.61	76.46	13.67
IUT	24.3	3.14	72.58	9.38	251.41	50.57
JKKNIU	21.47	1.29	194.71	19.01	64.13	3.84
JnU	36.83	3.11	120.7	10.19	405.9	63.38
JU	77.25	6.52	230.74	19.46	586	71.16
JUST	53.64	4.35	160.2	12.99	461.16	81.05
KU	19.69	2.05	58.8	6.11	330.96	49.97
KUET	154.78	17.42	462.32	52.02	1100	185.94
LU	2.95	0.479	4.6	0.797	91.92	60.24
MBSTU	31.68	2.41	94.61	7.18	307.69	28.04
MIST	8.44	1.17	25.2	3.49	94.64	14.39
NSTU	22.32	2.99	67.75	9.09	260	36.91
NSU	0.06443	0.00853	0.19246	0.02547	8	2.64
NU	8.7	11.59	26	34.62	159.62	140.77
PSTU	102.33	9.66	305.65	28.86	770.24	94.58
PUST	22.71	1.92	67.84	5.73	222.06	39.65
RU	107.27	12.05	320.41	36.01	782.26	98.34
RUET	101.09	14.74	301.94	44.03	798.09	161.69
SAU	10.37	0.873	30.98	2.61	30.98	2.61
SBAU	47.02	4.13	140.43	12.32	318.88	67.92
SUST	89.74	7.5	527.15	56.7	827.09	154.56
VU	1.59	0.09333	4.76	0.278	31.38	3.07

5. TOTAL TRAFFIC

Table 3: Total Traffic

Total Download	2714.09 TB
Total Upload	430.55 TB

6. ONLINE EDUCATION

6.1 Institution Wise vSession Usage Statistics

➤ Public Universities and Colleges:

Table 4: vSession Usage by Public Universities and Colleges

SL	University_name	Total Class Taken	Total Hours	Total Participants
1	University of Dhaka (DU)	493	565:45:01	31137
2	Jahangirnagar University (JU)	450	554:16:59	16996
3	Jagannath University (JnU)	390	469:06:01	19107
4	University of Chittagong (CU)	274	326:15:04	10423
5	Noakhali Science and Technology University (NSTU)	273	293:28:59	9226
6	BSMRSTU	236	252:24:59	21288
7	Hajee Mohammad Danesh Science & Technology University (HSTU)	213	228:11:59	17430
8	Bangladesh Agricultural University (BAU)	204	220:18:58	12032
9	Bangladesh Open University (BOU)	201	296:46:58	6075
10	Comilla University (CoU)	199	246:52:01	8424
11	University of Rajshahi (RU)	172	193:39:00	4910
12	Jashore University of Science and Technology (JUST)	166	153:50:00	3910
13	Bangladesh University of Textiles (BUTEX)	141	158:44:59	8996
14	Mawlana Bhashani Science and Technology University (MBSTU)	129	135:32:58	5744
15	Begum Rokeya University, Rangpur (BRUR)	100	109:32:59	2699
16	Eden Mohila College	92	72:54:01	5607
17	Bangladesh University of Engineering & Technology (BUET)	82	112:45:00	4051
18	University of Barisal (BU)	80	92:30:58	4296
19	Islamic University of Technology (IUT)	77	111:14:59	2429
20	Khulna University (KU)	77	83:14:00	2117
21	Islamic University, Bangladesh (IU)	73	79:48:00	3129
22	Shahjalal University of Science and Technology (SUST)	72	69:47:00	3458
23	Patuakhali Science and Technology University (PSTU)	72	78:15:00	1738
24	National Institute of Textile Engineering and Research (NITER)	70	52:35:00	893
25	Sher-e-Bangla Agricultural University (SBAU)	61	76:37:59	3105
26	Bangabandhu Sheikh Mujib Medical University (BSMMU)	47	64:00:00	1302
27	Bangabandhu Sheikh Mujibur Rahman Maritime University	43	66:31:00	1245
28	Military Institute of Science and Technology (MIST)	36	39:22:00	554
29	Lalmatia Mohila College	27	26:09:00	234
30	Bangladesh University of Professionals (BUP)	26	28:42:59	369
31	Chittagong Veterinary and Animal Sciences University (CVASU)	24	22:30:00	743
32	Pabna University of Science and Technology (PUST)	23	23:54:00	1064
33	Chittagong University of Engineering & Technology (CUET)	20	22:07:00	831
34	Comilla Victoria Government College	18	15:19:00	298
35	Bangabandhu Sheikh Mujibur Rahman Agricultural University	18	22:08:00	841
36	National University (NU)	16	20:27:00	712
37	Khulna Agricultural University (KAU)	12	11:39:00	174
38	Jatiya Kabi Kazi Nazrul Islam University (JKKNIU)	12	19:36:00	643
39	BSFMSTU	11	15:48:00	149
40	Textile Engineering College, Chattogram (TEC)	11	14:46:00	689
41	Sylhet Agricultural University (SAU)	9	9:38:00	364
42	Sheikh Hasina University (SHU)	8	9:09:00	101
43	Dhaka University of Engineering & Technology (DUET)	8	11:14:00	68
44	Khulna University of Engineering & Technology (KUET)	6	2:53:00	13
45	Chandpur Government College, Chandpur	4	3:24:00	73
46	BSMRAAU	3	6:01:00	68
47	Rajshahi University of Engineering & Technology (RUET)	3	1:45:00	11
48	Bangabandhu Digital University (BDU)	3	1:53:00	26

49	Faridpur Engineering College, Faridpur	2	1:36:00	36
50	Shahid Abdur Rab Serniabat Textile Engineering College (SARSTEC)	2	1:13:00	5
51	Mohammadpur Govt college, Dhaka	2	2:44:00	12
52	Rangamati Science and Technology University (RMSTU)	2	1:30:00	19
53	Mymensingh Engineering College	1	0:40:00	62

➤ **Private Universities:**

Table 5: vSession Usage by Private University

SL	Institution Name	Total Class	Total Hours	Total Participants
1	Green University of Bangladesh	1438	1751:40:04	54178
2	Shanto-Mariam University of Creative Technology	696	790:21:55	21292
3	International Islamic University Chittagong (IIUC)	388	457:33:57	8694
4	Stamford University Bangladesh	383	544:52:58	9301
5	Eastern University	299	323:28:01	8458
6	Ahsanullah University of Science and Technology (AUST)	294	354:36:59	7447
7	Bangladesh University of Health Sciences	154	236:35:59	3364
8	Leading University, Sylhet	144	176:33:00	2266
9	Sonargaon University (SU)	95	120:07:02	4403
10	Premier University, Chittagong	94	94:50:59	2137
11	Bangladesh Army International University of Science and Technology	94	94:20:59	2011
12	BRAC University	94	111:42:01	2917
13	Primeasia University	91	81:39:01	2098
14	State University of Bangladesh	81	110:05:01	1969
15	Bangladesh Army University of Science and Technology (BAUST)	79	89:46:00	1543
16	Dhaka International University (DIU)	78	80:43:59	2055
17	Presidency University	78	97:33:01	1260
18	City University	71	89:16:00	1130
19	Canadian University of Bangladesh	68	63:17:01	983
20	Feni University	62	76:38:00	1161
21	Northern University of Business & Technology Khulna	51	51:16:00	765
22	University of Science and Technology Chittagong (USTC)	50	95:07:59	1181
23	University of Asia Pacific	50	58:25:00	910
24	Manarat International University	46	54:38:59	560
25	Port City International University	43	45:12:01	967
26	Asian University of Bangladesh (AUB)	39	38:49:00	581
27	European University of Bangladesh	39	47:18:00	928
28	Atish Dipankar University of Science and Technology	37	44:10:00	772
29	Gono Bishwabidyalay	36	49:24:59	2858
30	University of Information Technology and Sciences (UITS)	35	38:06:01	881
31	International Standard University (ISU)	33	58:19:00	924
32	Bangladesh Army University of Engineering and Technology	33	25:33:59	482
33	Daffodil International University	24	28:01:00	497
34	Bangladesh International School & College (BISC)	23	30:00:00	191
35	University of South Asia	23	30:58:00	886
36	BGMEA University of Fashion & Technology	21	27:39:01	913
37	BGC Trust University Bangladesh	21	27:34:00	342
38	North Western University (Khulna)	20	26:09:00	324
39	North South University	20	23:59:00	281
40	International University of Business Agriculture and Technology	18	24:58:00	556
41	CCN University of Science & Technology, Cumilla	18	20:19:00	237
42	The International University of Scholars	17	22:04:00	867
43	Prime University	17	14:20:01	143
44	Southeast University	16	21:30:59	302
45	Pundra University of Science & Technology	15	18:50:00	161
46	University of Liberal Arts Bangladesh (ULAB)	14	18:16:00	617

SL	Institution Name	Total Class	Total Hours	Total Participants
47	Fareast International University (FIU)	13	15:04:00	113
48	Savar Cantonment Public School & College (SCPSC)	12	10:43:00	86
49	Znrf University of Management science	11	18:05:00	205
50	North East University Bangladesh	10	6:37:00	76
51	United International University (UIU)	10	10:06:00	37
52	Adamjee Cantonment College	9	7:59:00	100
53	Bangladesh Islami University (BIU)	8	9:58:00	85
54	Bangladesh University	8	8:52:00	31
55	Rabindra Maitree University	7	4:48:00	53
56	Notre Dame University Bangladesh	3	3:25:00	23
57	Varendra University	3	4:11:00	70
58	East West University (EWU)	2	2:39:00	5
59	East Delta University	1	1:00:00	2
60	Rajshahi Cantonment Public School and College (RCPSC)	1	1:27:00	133

➤ **Medical Colleges:**

Table 6: vSession Usage by Medical Colleges

SL	Institution Name	Total Class	Total Hours	Total Participants
1	Dhaka Medical College	32	35:40:00	1602
2	TMSS Medical College	25	36:59:00	1706
3	Ibrahim Medical College, Dhaka	16	20:18:00	695
4	North East Medical College (NEMC)	2	3:08:00	18
5	Faridpur Medical College	2	1:51:00	4
6	Rajshahi Medical University	1	1:33:00	23
7	Holy Family Red Crescent Medical College	1	1:29:00	3

➤ **Other Institution:**

Table 7: vSession Usage by Other Institution

SL	Institution Name	Total Class	Total Hours	Total Participants
1	Government Organization	24	52:39:59	500
2	Bangladesh Institute of Management (BIM)	24	47:06:00	1179
3	Bangladesh Academy for Securities Markets - BASM	21	32:18:01	26
4	Shaikh Burhanuddin Post Graduate College	15	20:14:00	231
5	Institute of Chartered Secretaries of Bangladesh (ICSB)	13	25:15:00	406
6	Sylhet Engineering College (SEC)	10	11:30:00	381
7	Bangladesh Institute of Capital Market (BICM)	8	18:53:00	716
8	Bangabandhu Textile Engineering College	6	5:33:00	277
9	Bangladesh Institute of Nuclear Agriculture (BINA)	4	3:49:00	107
10	Ministry of Education	3	4:52:00	171
11	Technical Teachers' Training College	2	3:18:00	593
12	Bangladesh Research and Education Network (BdREN)	1	0:45:00	6

6.2 Institution Wise vSession Usage Graph

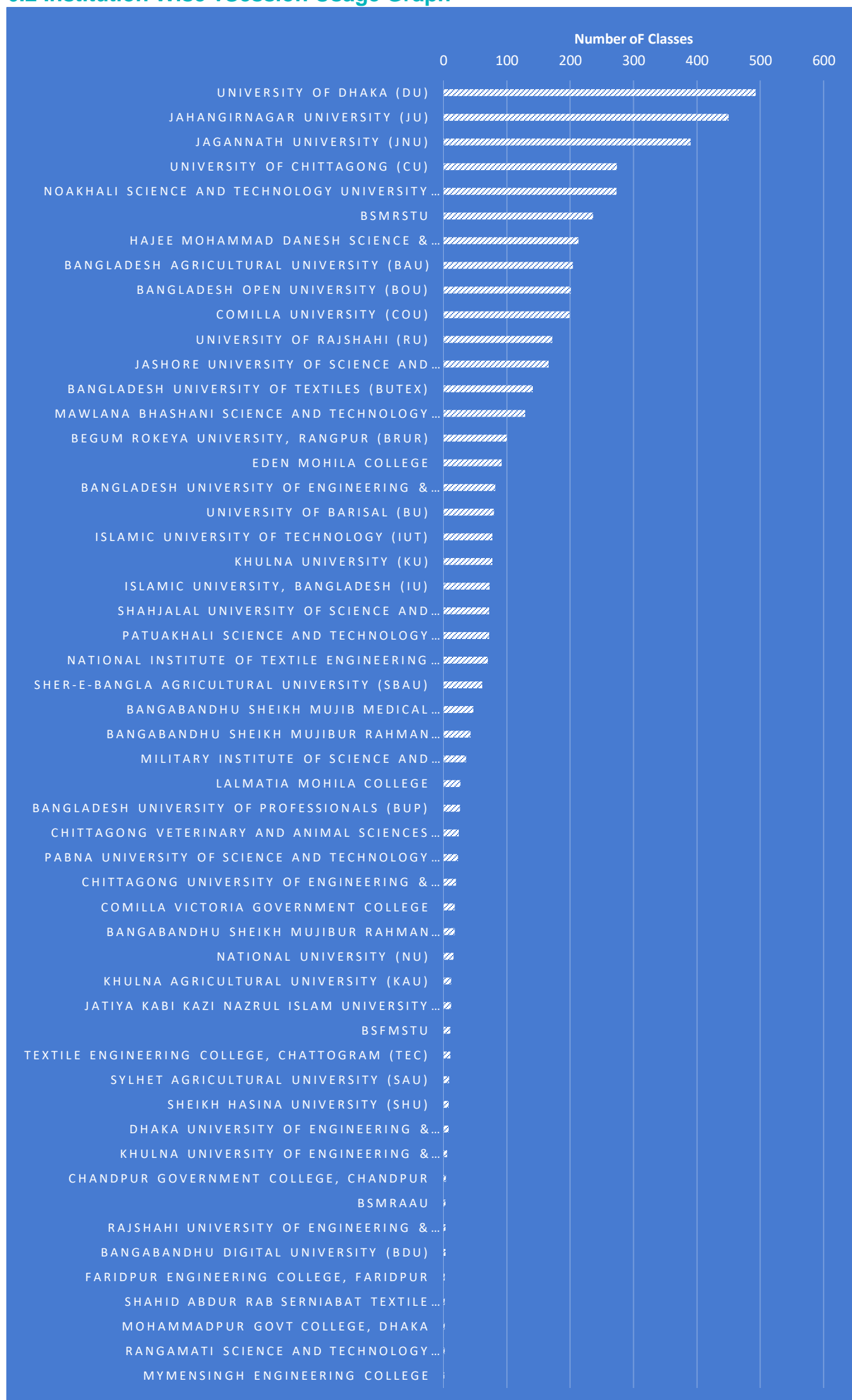


Figure 3: Public University & Colleges vSession Usage Graph

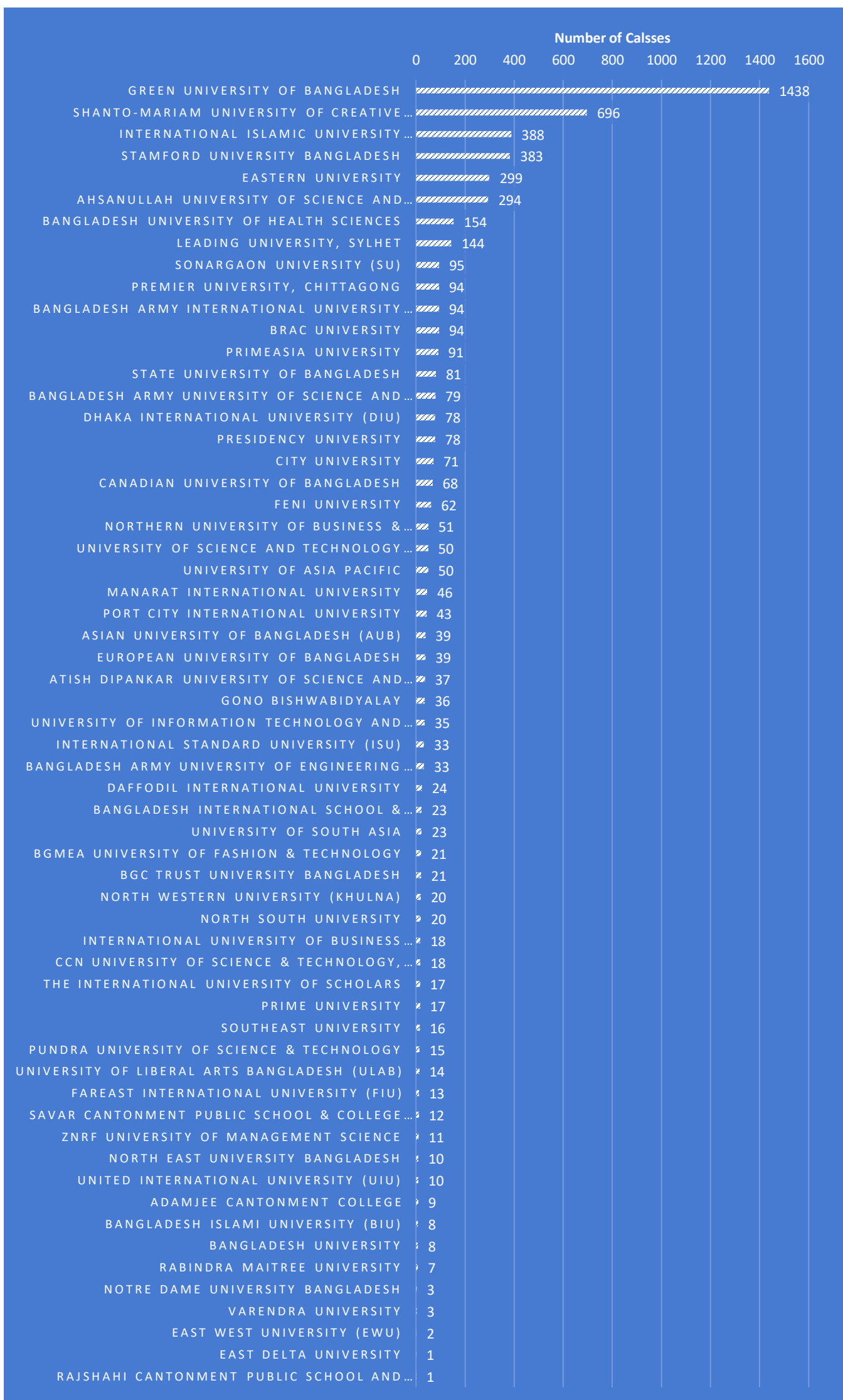


Figure 4: Private University vSession Usage Graph

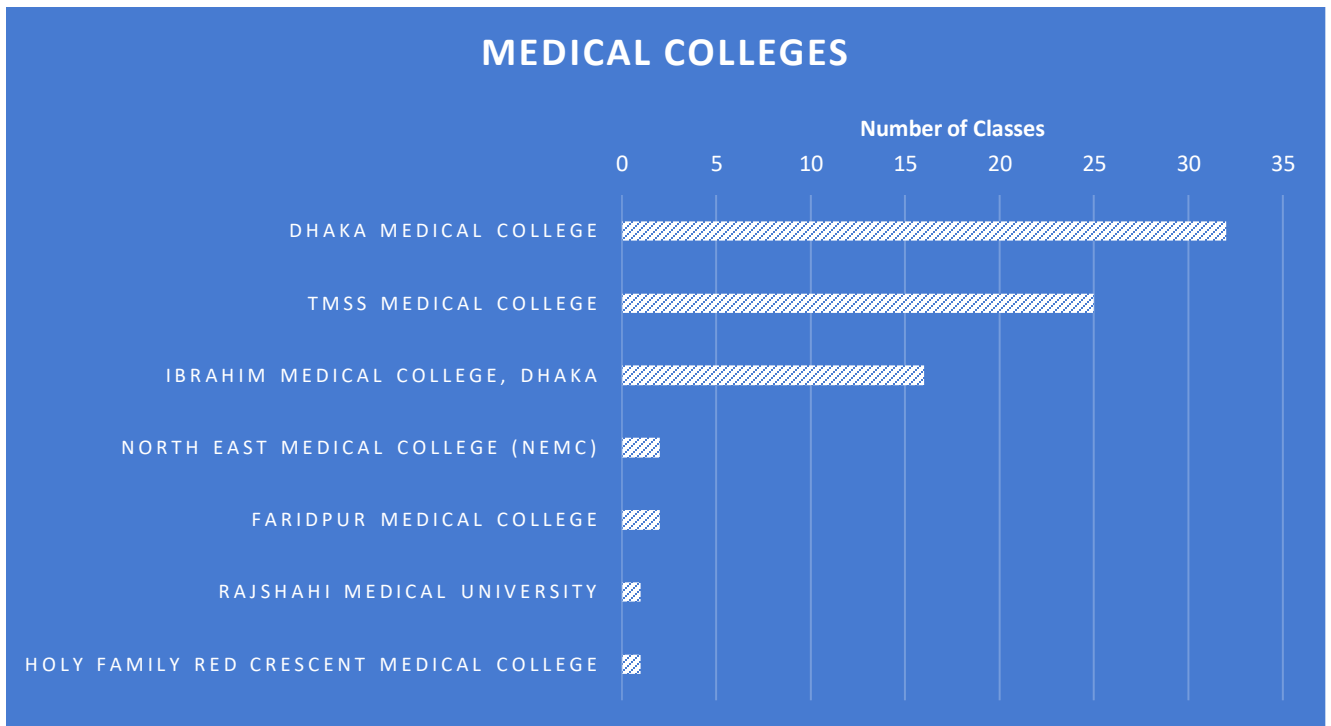


Figure 5: Medical College vSession Usage Graph

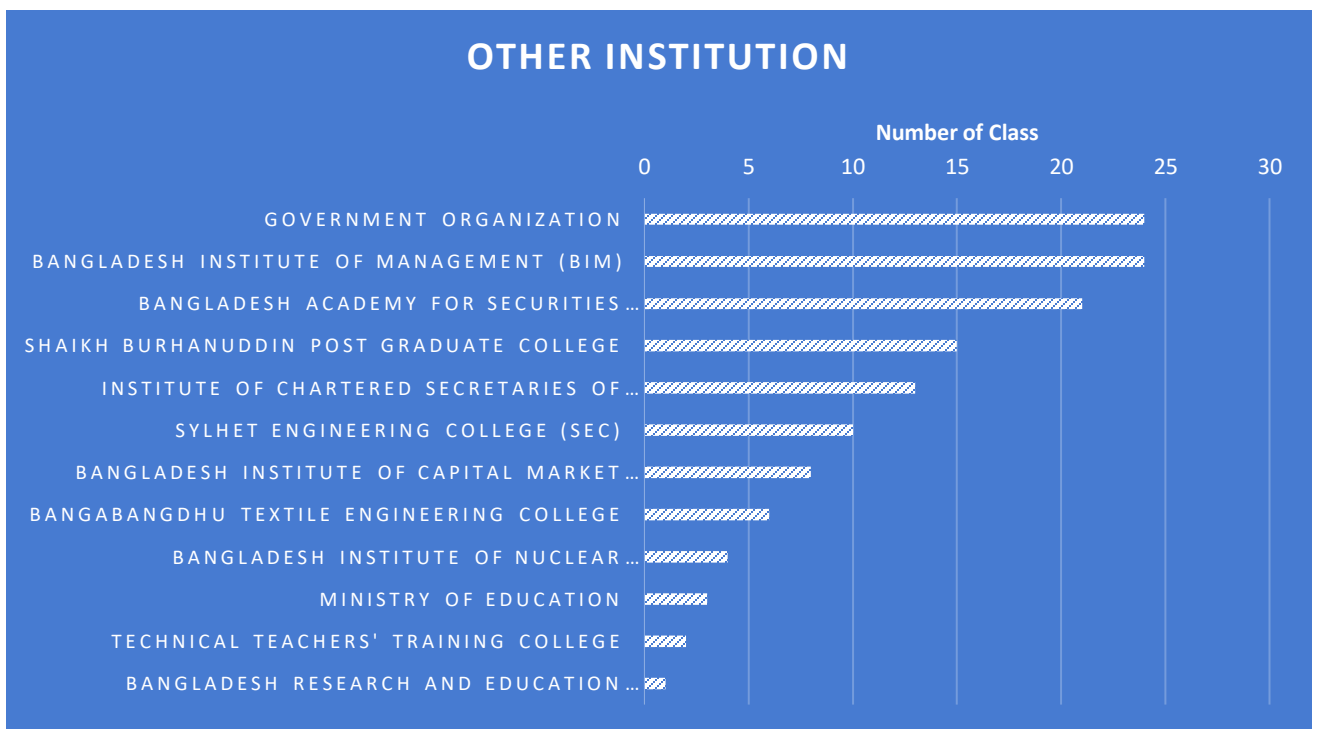


Figure 6: Other Institution vSession Usage Graph

6.3 Institution Wise On-Prem Zoom Usage Statistics

Table 8: Institution Wise On-Prem Zoom Usage Statistics

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
1	University of Dhaka (DU)	2462	2714:51:56	106526
2	Bangladesh University of Engineering & Technology (BUET)	2414	2643:39:18	84666
3	Others	1098	1205:04:06	27957
4	Shahjalal University of Science and Technology (SUST)	598	627:02:34	19610
5	United International University (UIU)	351	420:08:43	4801
6	Chittagong University of Engineering & Technology (CUET)	338	325:42:19	4157
7	Bangladesh University of Professionals (BUP)	294	332:04:58	4967
8	Military Institute of Science and Technology (MIST)	288	342:23:37	4675
9	Khulna University of Engineering & Technology (KUET)	283	267:29:34	5811

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
10	Dhaka University of Engineering & Technology (DUET)	252	261:36:22	6258
11	Rajshahi University of Engineering & Technology (RUET)	248	244:31:33	5940
12	Jashore University of Science and Technology (JUST)	179	170:47:06	4641
13	University of Chittagong (CU)	153	187:49:48	4316
14	ICMAB	148	275:59:35	7545
15	Jagannath University (JnU)	144	128:39:40	3377
16	Jahangirnagar University (JU)	140	156:22:03	4164
17	Bangladesh Agricultural University (BAU)	133	145:44:02	6305
18	Noakhali Science and Technology University (NSTU)	130	136:19:57	3580
19	Patuakhali Science and Technology University (PSTU)	127	124:48:10	2985
20	Khulna University (KU)	112	105:32:17	993
21	Islamic University of Technology (IUT)	107	144:56:05	760
22	National University (NU)	97	106:48:01	4399
23	BdREN	88	75:27:34	462
24	BRAC University	76	89:28:23	728
25	Bangabandhu Sheikh Mujibur Rahman Agricultural University	72	61:58:16	2499
26	Bangladesh Agricultural Research Institute (BARI)	69	243:59:14	11907
27	Bangladesh Open University (BOU)	67	68:59:58	1154
28	Data Edge	64	80:50:23	667
29	University of Rajshahi (RU)	60	63:57:21	1437
30	Begum Rokeya University, Rangpur (BRUR)	53	61:47:39	1290
31	Spectrum Engineering Consortium Limited	50	74:29:35	403
32	University of Barisal (BU)	50	34:32:28	1459
33	SPFMS	49	53:35:06	327
34	Sylhet Agricultural University (SAU)	44	49:15:14	3238
35	University of Asia Pacific	42	41:12:21	2267
36	Bangabandhu Sheikh Mujibur Rahman Maritime University	38	40:54:08	544
37	BSMRAAU	38	56:42:28	243
38	Notre Dame College, Dhaka	35	36:43:52	622
39	Green University of Bangladesh	34	40:50:33	730
40	Joypurhat Girls Cadet College	34	17:38:56	1777
41	Islamic University, Bangladesh (IU)	32	30:19:11	1188
42	Hajee Mohammad Danesh Science & Technology University (HSTU)	30	30:55:45	1401
43	BARD	29	45:44:06	131
44	Comilla University (CoU)	28	21:13:01	1042
45	Institute of Chartered Secretaries of Bangladesh (ICSB)	28	25:43:22	573
46	UGC	28	45:11:45	673
47	Barishal Cadet College (BCC)	27	21:38:17	983
48	Canadian University of Bangladesh	27	42:03:06	1054
49	Ministry of Education	27	33:56:02	967
50	Mawlana Bhashani Science and Technology University (MBSTU)	26	24:37:32	638
51	Pabna University of Science and Technology (PUST)	26	26:41:06	802
52	Cumilla Cadet College	25	15:07:37	1288
53	International Islamic University Chittagong (IIUC)	24	30:23:08	2742
54	Jhenidah Cadet College (JCC)	24	13:40:27	1455

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
55	Rajshahi Cadet College	24	30:15:18	1794
56	East West University (EWU)	23	28:40:56	140
57	Bangladesh International School & College (BISC)	22	25:06:08	279
58	Chittagong Veterinary and Animal Sciences University (CVASU)	22	28:52:40	174
59	ICDDRDB	21	14:41:04	118
60	ic4rib	19	26:40:04	43
61	Textile Engineering College, Noakhali	19	16:19:20	668
62	Bangladesh Rice Research Institute (BRRI)	17	32:59:05	1004
63	BSMRSTU	17	19:01:09	1053
64	BTCL	17	15:04:51	54
65	Sher-e-Bangla Agricultural University (SBAU)	17	17:29:16	632
66	Sylhet Cadet College (SCC)	17	20:36:42	1171
67	The People's University of Bangladesh	17	10:05:20	107
68	University of Liberal Arts Bangladesh (ULAB)	17	21:16:10	808
69	Ahsanullah University of Science and Technology (AUST)	16	11:56:06	504
70	IEDCR	16	20:04:13	231
71	Jatiya Kabi Kazi Nazrul Islam University (JKKNIU)	15	18:57:24	789
72	North Western University (Khulna)	15	12:01:51	100
73	Stamford University Bangladesh	15	27:32:36	437
74	Bangladesh University of Health Sciences – BUHS	14	18:24:40	182
75	North South University	14	15:13:25	120
76	Bangladesh Securities & Exchange Commission (BSEC)	13	9:52:19	396
77	Daffodil International University	13	30:32:26	833
78	Gono Bishwabidyaly	13	24:41:08	1346
79	BGC Trust University Bangladesh	12	15:10:11	61
80	Bangabandhu Sheikh Mujib Medical University (BSMMU)	10	17:15:54	110
81	Manarat International University	10	10:10:02	164
82	Premier University, Chittagong	10	6:02:59	30
83	Bangladesh Institute of Capital Market (BICM)	9	18:24:30	648
84	City University	9	7:02:20	25
85	Independent University, Bangladesh	9	14:34:56	340
86	International Standard University (ISU)	9	13:59:47	192
87	EXIM Bank Agricultural University Bangladesh	8	10:23:57	47
88	fDLuDCf	8	6:49:01	70
89	BAC	7	7:40:23	41
90	Express Systems Limited	7	8:11:56	68
91	Primeasia University	7	12:26:32	290
92	BPC Training Center	6	6:23:34	29
93	Chandpur Science and Technology University (CSTU)	6	9:00:08	25
94	Rajshahi Medical University	6	4:28:28	196
95	Bangladesh Sugar & Food Industries Corporation (BSFIC)	5	13:01:26	101
96	BIGM	5	4:19:49	78
97	Govt. Office	5	2:39:40	51
98	NIPORT	5	8:42:07	198
99	Bangabandhu Digital University (BDU)	4	5:48:14	108
100	BJRI	4	9:38:37	57
101	Faridpur Engineering College, Faridpur	4	3:48:53	78

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
102	Varendra University	4	5:03:29	28
103	Bangladesh Institute of Development Studies	3	6:43:30	119
104	Bangladesh University of Business and Technology (BUBT)	3	5:20:13	113
105	Bangladesh University of Textiles (BUTEX)	3	5:29:58	89
106	Chittagong Independent University (CIU)	3	3:20:57	11
107	Kazla Technologies Limited	3	0:49:46	6
108	Asian University of Bangladesh (AUB)	2	2:10:27	13
109	Customs Intelligence & Investigation Directorate	2	2:21:01	6
110	Dhaka International University (DIU)	2	1:35:39	4
111	Port City international University	2	1:44:26	4
112	RCMC	2	2:25:30	34
113	RTM Al Kabir Technical University (RTM-AKTU)	2	1:40:10	31
114	Shaikh Burhanuddin Post Graduate College	2	1:10:50	83
115	ABC Center for HR Development	1	0:06:14	2
116	Bangladesh Institute of Management (BIM)	1	0:14:34	2
117	BSFMSTU	1	0:04:36	3
118	Dhamrai Govt. College	1	0:38:42	3
119	Fareast International University (FIU)	1	1:01:01	13
120	Rangamati Science and Technology University (RMSTU)	1	1:47:18	20
121	Sheikh Hasina University (SHU)	1	1:48:32	41
122	SOMC	1	2:06:37	14
123	Sonargaon University (SU)	1	0:53:44	35
124	University of Science and Technology Chittagong (USTC)	1	0:01:20	2

6.4 BdREN Total Zoom Usage Statistics

Table 9: BdREN Total Zoom Usage Statistics

Total Number of Meetings/Classes	22703
Total Hour of Meetings/Classes	26048:59:33
Total Number of Participants	768172

6.5 Month-wise Number of Classes, Total Class Hours and Participants

Table 10: Month-wise Zoom Usage Statistics

Year 1 Year	Number Of Classes	Total Class Hours	Total Participants
May, 2021	79420	102116	3215695
June, 2021	127770	166413	6441336
July, 2021	111348	149652	5378990
August, 2021	147295	202190	7435008
September, 2021	133279	179272	6365539
October, 2021	91010	116065	3653814
November, 2021	76633	101018	3153253
December, 2021	45716	57502	1796817
January, 2022	82937	98200	4826870
February, 2022	124860	155180	7793889
March, 2022	47594	61252	1863547
April, 2022	39569	45441	1411059
May, 2022	25331	30669	794075
June, 2022	25359	29606	789483

July, 2022	22703	26049	768172
------------	-------	-------	--------

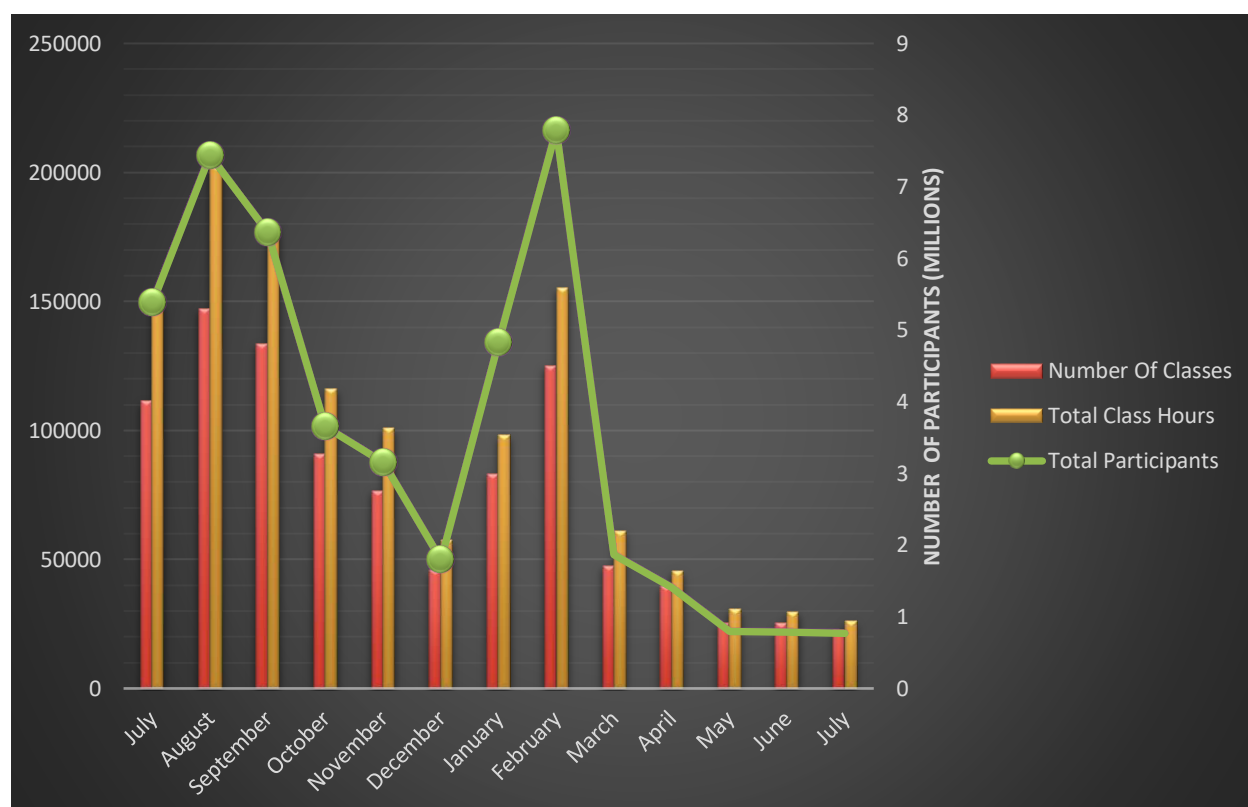


Figure 7: Month Wise Zoom Usage Graph in Last one year of 2021-2022

7. INSTITUTION WISE MAX HPC USAGE

Table 11: Institution Wise Max HPC Usage

Institutions	Used Space (GB)	Memory Size (GB)	CPUs	Number Of VMs
BAU	6144	264	44	2
BoU	200	8	8	1
BRAC	300	8	2	1
BRUR	1174	48	32	2
BSMMU	2048	64	25	2
BSMRAAU	100	8	4	1
BSMRAU	5632	144	64	4
BU	3072	96	48	3
BUET	11390	96	36	6
BUP	11670	112	36	6
BUTEX	1524	144	72	2
CUET	1024	32	16	1
CVASU	6644	80	38	4
DU	36308	2450	762	32
DUET	3072	48	48	3
GU	1024	128	32	1
HSTU	1024	64	16	1
IAU	1500	40	24	3
IU	2048	72	20	2
IUS	200	4	4	1
IUT	200	8	2	1
JnU	3072	96	24	3
JU	9616	104	52	7
JUST	3572	124	44	4
KU	2048	48	24	2
KUET	2124	128	68	4
MBSTU	4672	152	126	7

NITER	1024	8	4	1
NU	200	8	8	1
PUST	1024	32	8	1
RU	2048	32	64	1
RUET	1374	34	22	3
SAU	600	24	12	2
SBAU	2390	624	336	12
SUST	11290	168	42	10
Grand Total	141352	5500	2167	

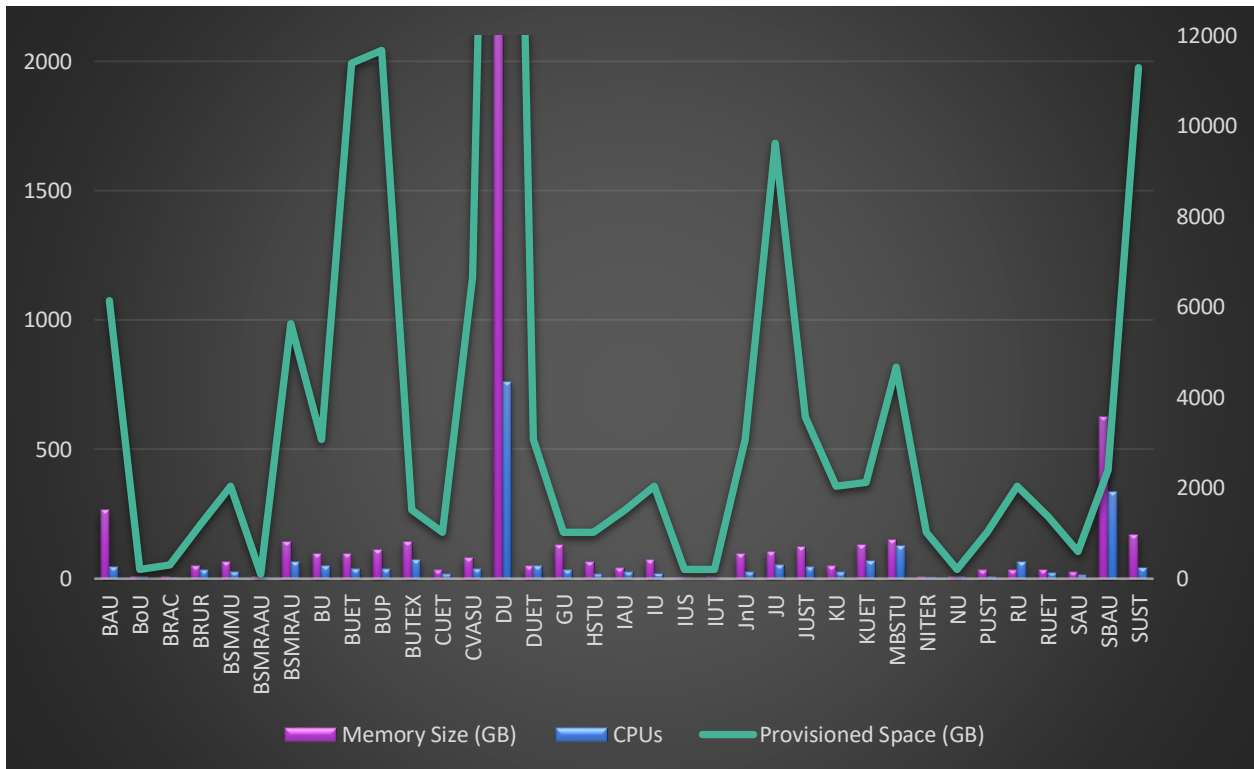


Figure 8: Institution Wise Max HPS Usage

8. ACRONYMS

AUB	Asian University of Bangladesh	JUST	Jessore University of Science & Technology
AUST	Ahsanullah University of Science & Technology	KU	Khulna University
AUW	Asian University for Women	KUET	Khulna University of Engineering & Technology
BARD	Bangladesh Academy for Rural Development	LUS	Leading University, Sylhet
BARI	Bangladesh Agricultural Research Institute	MBSTU	Mawlana Bhashani Science and Technology University
BAU	Bangladesh Agricultural University	MIU	Manarat International University
BDU	Bangabandhu Sheikh Mujibur Rahman Digital University	MMC	Mymensingh Medical College, Mymensingh
BdREN	Bangladesh Research and Education Network	NINMAS	National Institute of Nuclear Medicine & Allied Science
BFRI	Bangladesh Fisheries Research Institute	NITER	National Institute of Textile Engineering & Research
BIDS	The Bangladesh Institute of Development Studies	NKN	National Knowledge Network
BLRI	Bangladesh Livestock Research Institute	NOC	Network Operation Center
BOU	Banagladesh Open University	NREN	National Research and Education Network
BRACU	BRAC University	NSTU	Noakhali Science and Technology University
BRRI	Bangladesh Rice Research Institute	NSU	North South University
BRUR	Begum Rokeya University, Rangpur	NU	National University
BSMMU	Bangabandhu Sheikh Mujib Medical University	PSTU	Patuakhali Science and Technology University
BSMRAU	Bangabandhu Sheikh Mujibur Rahman Agricultural University	PUST	Pabna University of Science and Technology
BSMRSTU	Bangabandhu Sheikh Mujibur Rahman Science and Technology University	RAM	Random Access Memory
BTCL	Bangladesh Telecommunications Company Limited	RMC	Rajshahi Medical College, Rajshahi
BU	University of Barishal	RU	University of Rajshahi
BUBT	Bangladesh University of Business and Technology	RUET	Rajshahi University of Engineering & Technology
BUET	Bangladesh University of Engineering and Technology	SAU	Sylhet Agricultural University
BUP	Bangladesh University of Professionals	SBAU	Sher-e-Bangla Agricultural University
BUTEX	Bangladesh University of Textiles	SBMC	Sher-e-Bangla Medical College, Barishal
CMC	Chittagong Medical College, Chittagong	SOMC	Sylhet MAG Osmani Medical College, Sylhet
CoU	Cumilla University	SSHMC	Shaheed Suhrawardy Medical College, Dhaka
CU	University of Chittagong	SSKMC	Sheikh Sayera Khatun Medical College, Gopalganj
CUET	Chittagong University of Engineering and Technology	SSMC	Sir Salimullah Medical College, Dhaka
CVASU	Chattogram Veterinary and Animal Sciences University	SUST	Shahjalal University of Science and Technology
DDC	Dhaka Dental College, Dhaka	TB	Terabyte
DIU	Daffodil International University	UGC	University Grants Commission of Bangladesh
DMC	Dhaka Medical College, Dhaka	VU	Varendra University
DU	University of Dhaka		
DUET	Dhaka University of Engineering and Technology		
EU	Eastern University		
EWU	East West University		
HSTU	Hajee Mohammad Danesh Science & Technology University		
ICDDR'b	International Centre for Diarrhoeal Disease Research, Bangladesh		
ICMAB	The Institute of Cost and Management Accountants of Bangladesh		
ICSB	The Institute of Chartered Secretaries of Bangladesh		
IU	Islamic University, Bangladesh		
IUB	Independent University, Bangladesh		
IUBAT	International University of Business Agriculture and Technology		
IUT	Islamic University of Technology		
JKKNIU	Jatiya Kabi Kazi Nazrul Islam University		
JnU	Jagannath University		
JU	Jahangirnagar University		

