

BANGLADESH RESEARCH AND EDUCATION NETWORK

NOC MONTHLY REPORT

June 2022

Prepared by
BdREN NOC



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1. COORDINATION ISSUES

Processed 384 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)
AUB			100.00%	100.00%
AUST	174	174	99.61%	99.61%
AUW			100.00%	100.00%
BARD			100.00%	100.00%
BARI	473	473	98.94%	98.94%
BAU	268	268	99.40%	99.40%
BDU	268	268	99.40%	99.40%
BFRI	268	268	99.40%	99.40%
BIDS			100.00%	100.00%
BJRI			100.00%	100.00%
BLRI			100.00%	100.00%
BMD			100.00%	100.00%
BoU	40	40	99.91%	99.91%
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			100.00%	100.00%
BUTex	174	174	99.61%	99.61%
CCN			100.00%	100.00%
CMC			100.00%	100.00%
CoU			100.00%	100.00%
CoxBMC			100.00%	100.00%
CU			100.00%	100.00%
CUET			100.00%	100.00%
CVASU			100.00%	100.00%
DDC			100.00%	100.00%
DGHS	174	174	99.61%	99.61%
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	392	392	99.12%	99.12%
JKKNIU	268	268	99.40%	99.40%
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			100.00%	100.00%
MAGOMC			100.00%	100.00%
MBSTU			100.00%	100.00%
MIST			100.00%	100.00%
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	767	767	98.28%	98.28%
RMC	352	352	99.21%	99.21%
RPMC	116	116	99.74%	99.74%
RU	352	352	99.21%	99.21%
RUET			100.00%	100.00%
SAU	1146	1146	97.43%	97.43%
SBAU			100.00%	100.00%
SBMC			100.00%	100.00%
SIRSMC			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%

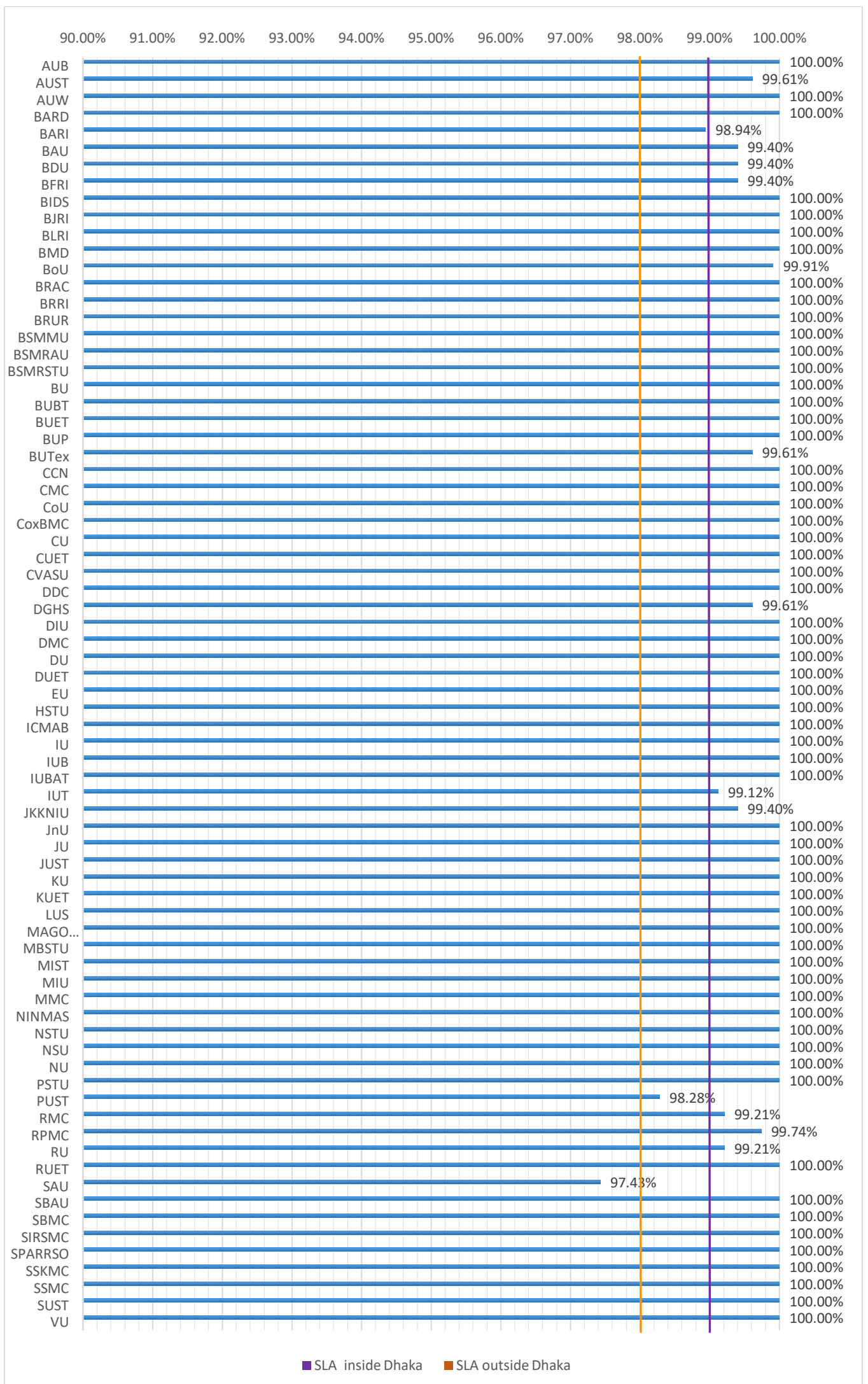


Figure 1: Institution Wise Link Availability considering “Planned Maintenance” as non-outage

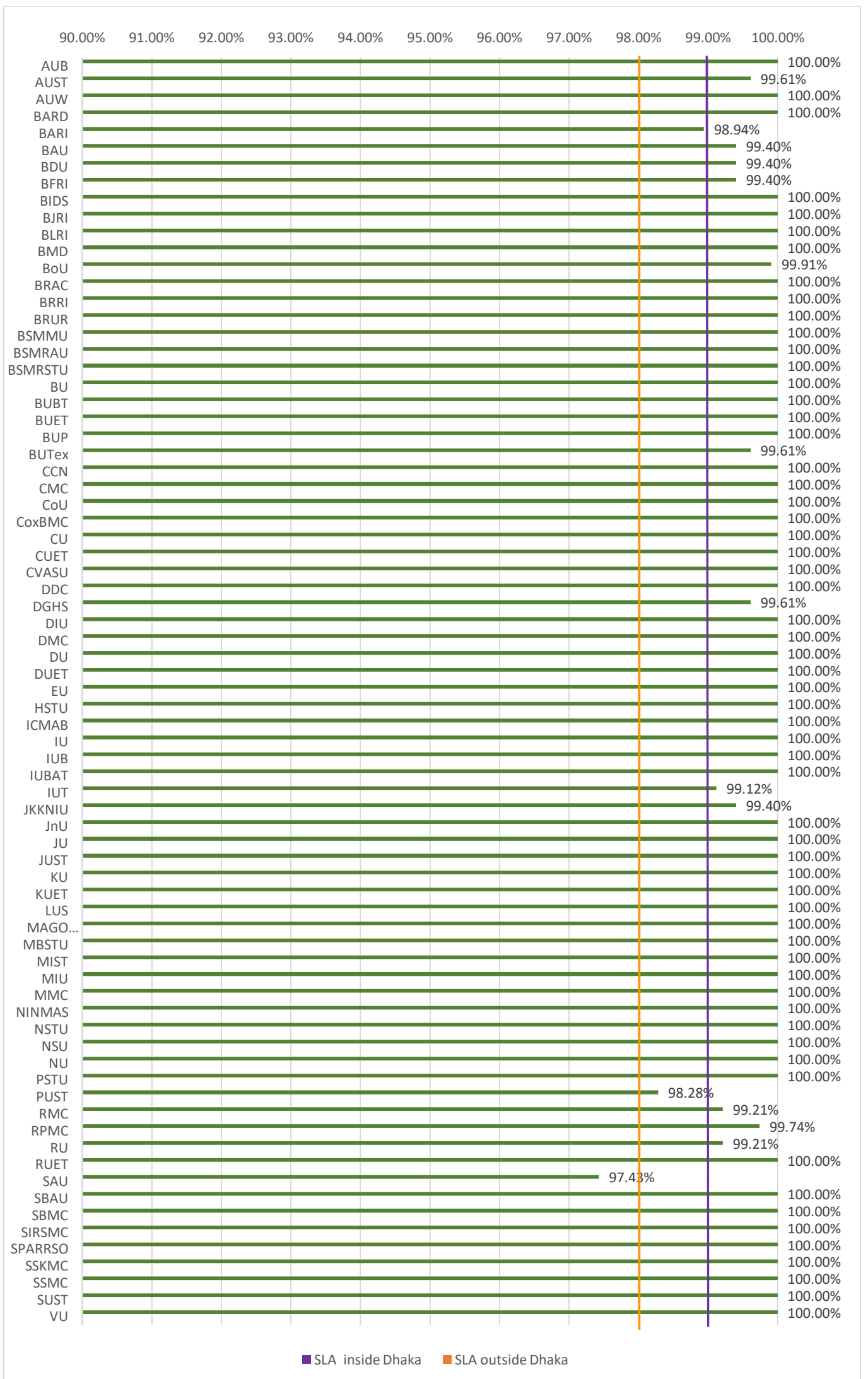


Figure 2: Institution Wise Link Availability considering “Planned Maintenance” as outage

3. MAJOR OUTAGE OF June 2022

❖ **Ticket#2022061110000015**

Affected Member : BARI
Recovery Time : 473 min
SLA Compliance : Fulfilled
Problem Details : There was a fiber break near at BARI main Gate. After restoring the break. Transmission team has successfully restored the broken fiber link.

❖ **Ticket#2022062010000016**

Affected Member : PUST
Recovery Time : 274 min
SLA Compliance : Fulfilled
Problem Details : This link was down due to one of the core laser power has increased and crossed the set threshold value. Team has worked on Rajshahi-Natore link and reduce the fiber link laser.

❖ **Ticket#2022061710000022, Ticket#2022060410000047**

Affected Member : SAU
Recovery Time : 1146 min
SLA Compliance : not fulfilled
Problem Details : Power outage due to heavy rainfall. NMSS team found that power wasn't being passed from magnetic conductor to data room. Generator was refueled and conductor was checked. Link is up and running.

❖ **Ticket#2022062010000025**

Affected Member : BAU, BDU, JKKNIU, BFRI
Recovery Time : 268 min
SLA Compliance : Fulfilled
Problem Details : NSU-EWU link had a fiber cut and at the same time a Transmission network card (SMR-2) was down at Kabirpur PGCB. Transmission team has successfully restored the broken fiber link and changed the card.

❖ **Ticket#2022061810000048**

Affected Member : RU, RUET, PUST, RMC
Recovery Time : 352 min
SLA Compliance : Fulfilled
Problem Details : The link was down because of a partial fiber break at 2km from RU. Transmission team has successfully restored the broken fiber link.

4. TRAFFIC STATISTICS

Table 2: Institution Wise Traffic Statistics

INSTITUTION	TOTAL TRAFFIC		AVERAGE BW		MAXIMUM BW	
	IN	OUT	IN	OUT	IN	OUT
BUET	381.72	60.12	608.41	95.31	982.18	328.4
DU	332.08	38.3	1002	118.21	1600	275.45
IU	178.05	12.11	551.06	37.49	923.4	86.51
PSTU	151.64	17.36	464.04	53.72	785.19	206.88
CU	146.02	12.89	450.68	39.78	758.34	84.79
RU	140.51	16	436.1	49.66	901.96	115.24
BAU	366.69	26.31	1130	80.42	1610	138.16
JUST	61.31	4.74	189.76	14.67	440.99	60.56
KUET	184.4	19.75	469.12	60.95	955.17	146.57
SUST	23.51	5.15	72.55	15.9	290.82	68.33
RUET	148.78	21.95	461.77	68.14	813.22	165.35

INSTITUTION	TOTAL TRAFFIC		AVERAGE BW		MAXIMUM BW	
	IN	OUT	IN	OUT	IN	OUT
SBAU	50.65	3.9	156.32	12.03	299.75	33.29
JnU	58.08	5.42	179.25	16.73	394.49	57.19
BSMMU	27.05	2.53	83.49	7.82	260.13	41.29
BUTex	29.29	2.47	90.65	7.64	261.11	90.3
JU	85.29	7.98	263.23	24.64	594.81	136.17
IUB	0.614	0.117	1.9	0.363	45.43	51.99
JKKNIU	29.86	1.87	92.93	5.82	221.49	25.71
DUET	86.5	7.57	266.98	23.92	468.47	87.74
MBSTU	44.02	4.78	136.24	14.8	367.28	46.46
IUT	27.73	3.83	86.56	11.96	204.42	49.46
BSMRAU	86.16	5.1	265.94	15.74	500.44	33.94
BOU	16.04	4.51	49.52	13.91	172.87	94.68
SAU	12.64	1.06	39.9	3.35	102.85	12.93
PUST	34.08	2.82	106.97	8.86	216.61	29.59
HSTU	6.63	0.445	20.46	1.38	104.91	12.35
BRUR	54.01	4.04	166.71	12.46	382.03	45.95
BSMRSTU	27.59	2.2	85.38	6.82	217.4	20.84
KU	21.27	2.39	65.83	7.38	224.54	40.92
CoU	52.94	3.93	163.38	12.12	360.11	31.33
CUET	169.7	16.7	523.76	51.54	979.33	125.8
CVASU	58.26	4.28	179.81	13.22	359.13	44.65
EU	5.463	0.825	16.87	2.55	116.76	25.84
NSU	0.059	0.014	0.183	0.045	4.84	4.23
BU	63.94	5.61	197.91	17.37	374.37	46.51
BUP	59.67	8.65	184.18	26.71	344.7	98.83
NU	11.34	1.17	34.99	3.6	160.34	27.58
BRAC	0	0	0	0	0	0
DIU	48.23	365.3	148.86	1130	321.42	2000
VU	1.59	0.109	4.92	0.338	30.56	2.7
AUST	3.37	0.418	11.53	1.3	79.73	11.96
NSTU	35.38	5.85	109.21	18.05	292.12	51.67
BFRI	2.49	0.137	7.72	0.427	25.27	5.88
BLRI	9.3	0.772	28.79	2.39	90.33	10.47
BRRI	9.81	0.767	30.28	2.37	132.87	17.06
BARI	8.17	0.655	25.49	2.05	159.19	19.33
MIST	8.1	0.938	25.01	2.9	61.8	13.02
EWU	0	0	0	0	0	0
ICMAB	2.094	1.18	6.44	3.63	54.94	49.73
AUB	5.922	0.629	18.33	1.52	62.26	32.24
LU	3.92	0.733	10.77	2.06	92.6	38.25
BDU-Dhaka	1.878	0.001	3.74	0.001	50.14	0.047
BDU-Kalikor	9.58	1.56	29.73	4.85	126.29	34.71
IUBAT	4.09	0.46	12.7	1.43	281.61	29.87
BUBT	2.331	0.149	7.18	0.461	49.12	4.36
BSMRAAU (DHK)	1.623	0.141	4.98	0.433	33.37	5.63
BSMRAAU (L-HAT)	0.94	0.13	7.18	1	45.73	9.16
CCN	2.23	0.197	6.87	0.61	40.11	4.31

5. TOTAL TRAFFIC

Table 3: Total Traffic

Total Download

3394.694 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	Jagannath University (JnU)	507	567:09:03	20621
2	University of Dhaka (DU)	464	567:33:55	32366
3	Jahangirnagar University (JU)	408	464:40:59	12384
4	University of Chittagong (CU)	353	430:40:59	14466
5	Noakhali Science and Technology University (NSTU)	331	335:23:02	12764
6	Hajee Mohammad Danesh Science & Technology University	317	333:07:59	25283
7	Bangladesh Open University (BOU)	260	363:38:02	6473
8	University of Rajshahi (RU)	255	286:05:00	6067
9	Mawlana Bhashani Science and Technology University	235	246:28:00	9021
10	Bangladesh Agricultural University (BAU)	232	282:25:57	13474
11	Comilla University (CoU)	231	236:14:00	7789
12	Begum Rokeya University, Rangpur (BRUR)	222	267:54:00	8048
13	Bangladesh University of Textiles (BUTEX)	172	188:19:02	10232
14	Eden Mohila College	163	133:05:00	9604
15	BSMRSTU	158	160:41:58	16741
16	University of Barisal (BU)	142	136:11:00	7061
17	Islamic University, Bangladesh (IU)	140	167:50:59	8225
18	Islamic University of Technology (IUT)	137	169:09:02	2056
19	Khulna University (KU)	110	99:25:02	2570
20	Jashore University of Science and Technology (JUST)	90	80:43:59	1869
21	Sher-e-Bangla Agricultural University (SBAU)	79	94:00:59	3521
22	Pabna University of Science and Technology (PUST)	78	79:12:00	3829
23	National Institute of Textile Engineering and Research (NITER)	77	76:34:00	1551
24	Shahjalal University of Science and Technology (SUST)	74	84:54:01	4260
25	Bangabandhu Sheikh Mujibur Rahman Maritime University	72	102:27:00	1452
26	Bangladesh University of Professionals (BUP)	47	55:45:59	1235
27	Bangabandhu Sheikh Mujib Medical University (BSMMU)	45	61:09:01	1432
28	Patuakhali Science and Technology University (PSTU)	42	45:28:00	2511
29	Bangladesh University of Engineering & Technology (BUET)	42	47:54:00	459
30	National University (NU)	35	39:33:01	531
31	Chittagong Veterinary and Animal Sciences University	32	35:42:00	1119
32	Khulna Agricultural University (KAU)	30	29:21:59	2028
33	Dhaka University of Engineering & Technology (DUET)	29	41:05:00	804
34	Military Institute of Science and Technology (MIST)	24	28:21:00	408
35	Comilla Victoria Government College	23	16:39:00	307
36	Jatiya Kabi Kazi Nazrul Islam University (JKKNIU)	22	23:44:00	924
37	Lalmatia Mohila College	22	27:42:00	171
38	BSFMSTU	21	23:18:00	376
39	Khulna University of Engineering & Technology (KUET)	19	20:44:00	704
40	Bangabandhu Sheikh Mujibur Rahman Agricultural University	18	24:26:00	378
41	Sheikh Hasina University (SHU)	15	23:18:00	451
42	Chittagong University of Engineering & Technology (CUET)	13	11:26:00	63

43	Textile Engineering College, Chattogram (TEC)	9	10:05:01	866
44	Bangabandhu Digital University (BDU)	7	11:05:00	40
45	Shahid Abdur Rab Serniabat Textile Engineering College	7	9:15:00	672
46	Mohammadpur Govt college, Dhaka	6	8:06:00	23
47	Mymensingh Engineering College	6	6:59:00	246
48	Sheikh Kamal Textile Engineering College, Jhenaidah (SKTEC)	6	4:56:00	290
49	Rajshahi University of Engineering & Technology (RUET)	4	1:37:00	13
50	Rabindra University, Bangladesh (RUB)	4	6:26:00	112
51	Rangamati Science and Technology University (RMSTU)	4	4:49:00	181
52	Sylhet Agricultural University (SAU)	4	4:10:00	249
53	Faridpur Engineering College, Faridpur	2	2:46:00	362
54	BSMRAAU	1	0:48:00	4

➤ **Private Universities:**

Table 5: vSession Usage by Private University

SL	Institution Name	Total Class	Total Hours	Total Participants
1	Green University of Bangladesh	1224	1461:22:58	36871
2	International Islamic University Chittagong (IIUC)	944	1037:13:55	30263
3	Shanto-Mariam University of Creative Technology	872	1033:53:00	26503
4	Eastern University	449	530:20:59	15353
5	Leading University, Sylhet	331	375:17:01	9270
6	Ahsanullah University of Science and Technology (AUST)	317	365:24:00	5913
7	City University	306	345:28:58	10292
8	Stamford University Bangladesh	303	407:53:00	6877
9	Bangladesh University of Health Sciences	151	362:35:02	1808
10	Bangladesh Army University of Science and Technology	148	162:37:59	2869
11	Primeasia University	125	115:05:59	2925
12	Dhaka International University (DIU)	122	158:23:59	3531
13	BRAC University	117	149:54:00	4252
14	Premier University, Chittagong	116	118:50:00	2738
15	State University of Bangladesh	113	187:35:00	4204
16	Presidency University	107	121:37:01	1731
17	University of Science and Technology Chittagong (USTC)	92	144:33:00	2554
18	Bangladesh Army International University of Science and Tech	90	86:46:00	1384
19	CCN University of Science & Technology, Cumilla	79	75:05:00	1723
20	University of Asia Pacific	79	82:20:59	790
21	Sonargaon University (SU)	78	104:14:00	4708
22	Canadian University of Bangladesh	73	70:53:00	723
23	Manarat International University	72	88:44:01	1592
24	Northern University of Business & Technology Khulna	63	62:51:00	817
25	BGC Trust University Bangladesh	62	70:44:00	1459
26	Asian University of Bangladesh (AUB)	58	59:35:00	683
27	Atish Dipankar University of Science and Technology	57	65:36:59	1548
28	European University of Bangladesh	50	71:49:00	1963
29	Southeast University	49	68:05:00	1607
30	International Standard University (ISU)	46	72:06:00	1301
31	Port City International University	42	45:01:00	552
32	Feni University	41	43:28:01	528
33	Gono Bishwabidyaly	41	55:31:00	3396
34	The International University of Scholars	37	41:42:00	2178

SL	Institution Name	Total Class	Total Hours	Total Participants
35	Daffodil International University	35	33:05:00	593
36	North South University	31	43:06:00	296
37	Bangladesh Army University of Engineering and Technology	29	30:48:01	645
38	Prime University	28	29:50:00	277
39	North East University Bangladesh	28	24:47:00	474
40	Pundra University of Science & Technology	27	33:10:00	339
41	International University of Business Agriculture and Technology	26	31:52:01	517
42	North Western University (Khulna)	23	19:54:00	360
43	University of Liberal Arts Bangladesh (ULAB)	23	26:07:00	545
44	BGMEA University of Fashion & Technology	23	22:58:59	482
45	University of Information Technology and Sciences (UITS)	22	21:15:01	408
46	Adamjee Cantonment College	21	21:35:00	301
47	University of South Asia	21	24:42:00	785
48	Bangladesh University	17	20:07:00	91
49	Fareast International University (FIU)	16	17:05:59	159
50	Bangladesh International School & College (BISC)	13	17:33:01	177
51	Znrf University of Management science	12	18:00:00	138
52	Notre Dame University Bangladesh	11	10:06:00	140
53	United International University (UIU)	11	13:19:00	89
54	Bangladesh Islami University (BIU)	7	9:57:00	95
55	Rabindra Maitree University	7	5:38:00	74
56	East West University (EWU)	6	5:24:00	55
57	Rajshahi Cantonment Public School and College (RCPSC)	4	3:36:00	149
58	Savar Cantonment Public School & College (SCPSC)	4	5:11:00	18
59	Varendra University	3	3:07:00	55
60	East Delta University	2	2:56:00	3
61	Chittagong Independent University (CIU)	2	1:00:00	3
62	Exim Bank Agricultural University Bangladesh	1	0:45:00	6

➤ **Medical Colleges:**

Table 6: vSession Usage by Medical Colleges

SL	Institution Name	Total Class	Total Hours	Total Participants
1	TMSS Medical College	31	34:55:00	1676
2	Dhaka Medical College	28	31:10:00	800
3	Ibrahim Medical College, Dhaka	18	23:01:00	997
4	MAG Osmani Medical College, Sylhet	2	2:14:00	29
5	Faridpur Medical College	2	3:13:00	206
6	North East Medical College (NEMC)	1	0:01:00	1

➤ **Other Institution:**

Table 7: vSession Usage by Other Institution

SL	Institution Name	Total Class	Total Hours	Total Participants
1	Bangladesh Institute of Management (BIM)	81	174:22:02	4887
2	Institute of Chartered Secretaries of Bangladesh (ICSB)	40	92:16:00	1642
3	Sylhet Engineering College (SEC)	28	23:12:00	1339
4	Government Organization	25	33:52:00	1281
5	Bangladesh Institute of Nuclear Agriculture (BINA)	15	65:50:00	2042
6	Shaikh Burhanuddin Post Graduate College	12	20:02:00	200
7	Bangladesh Institute of Capital Market (BICM)	12	15:54:00	364

8	National Institute of Population Research & Training	8	8:37:00	1199
9	Ministry of Education	4	6:13:00	257
10	Bangladesh Research and Education Network (BdREN)	3	6:14:00	19
11	Bangladesh Livestock Research Institute (BLRI)	3	1:52:00	86
12	Bangladesh Academy for Securities Markets - BASM	2	2:18:00	7
13	Technical Teachers' Training College	2	4:45:00	299
14	Shyamoly Textile Engineering College	1	0:25:00	43

6.2 Institution Wise vSession Usage Graph

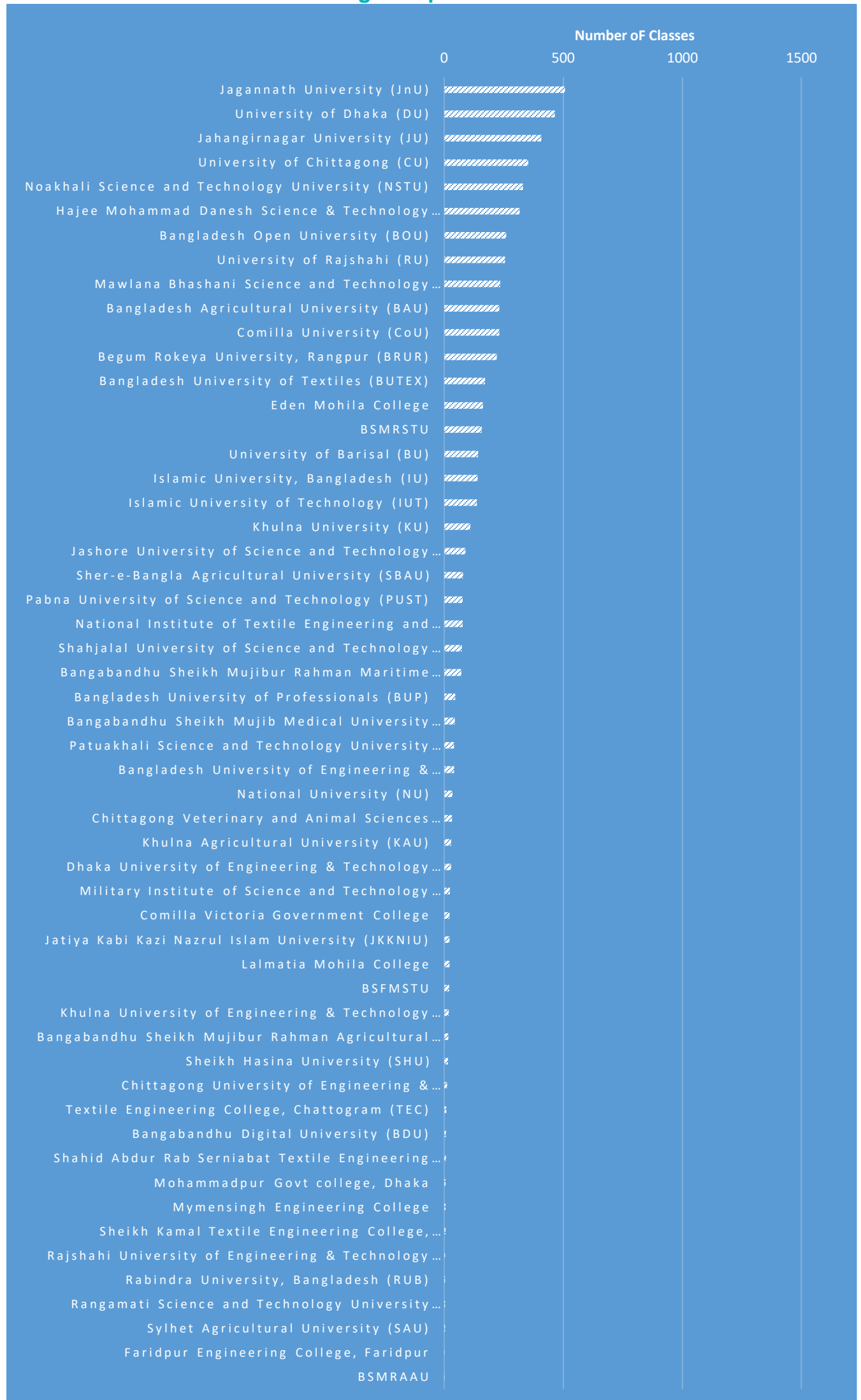


Figure 3: Public University & Colleges vSession Usage Graph

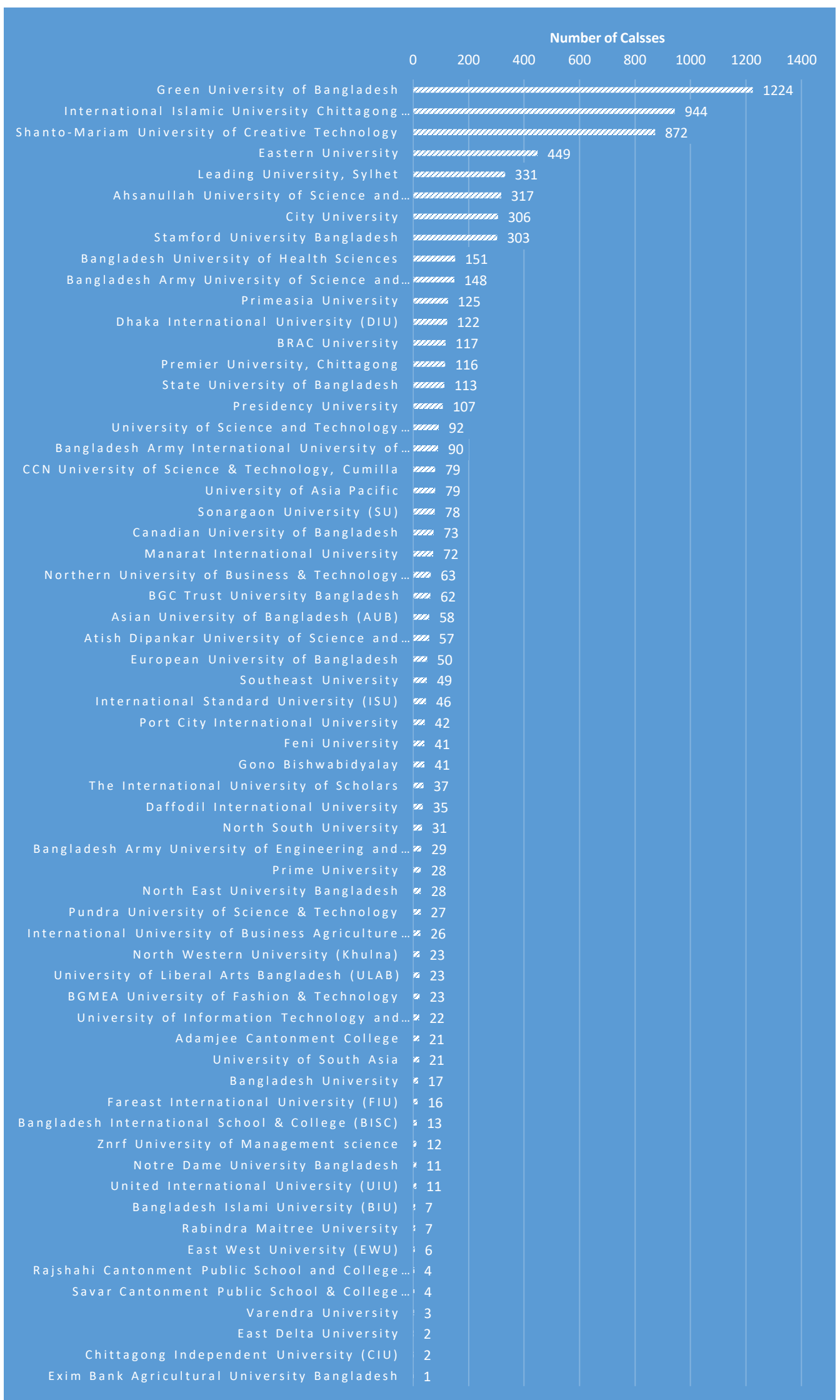


Figure 4: Private University vSession Usage Graph

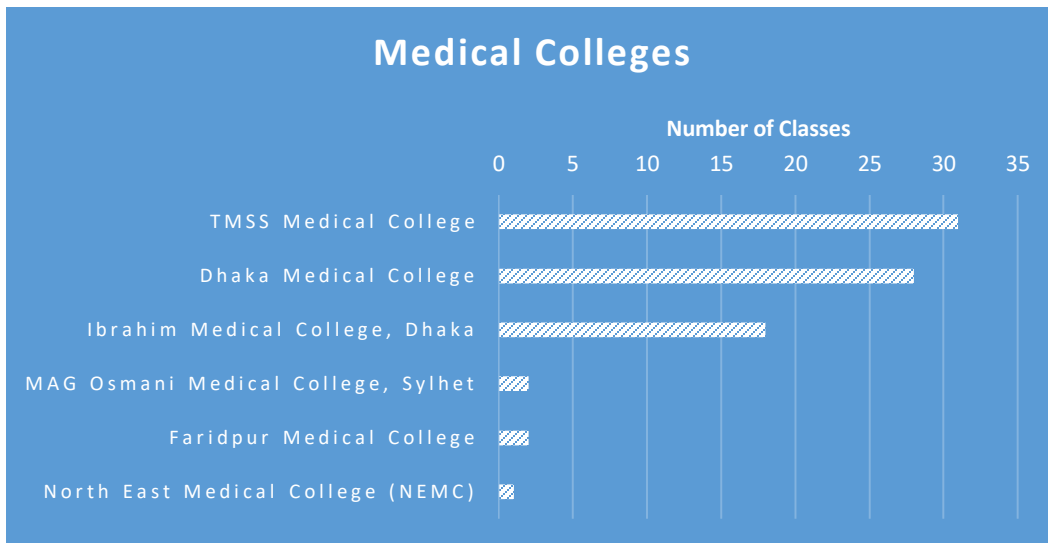


Figure 5: Medical College vSession Usage Graph

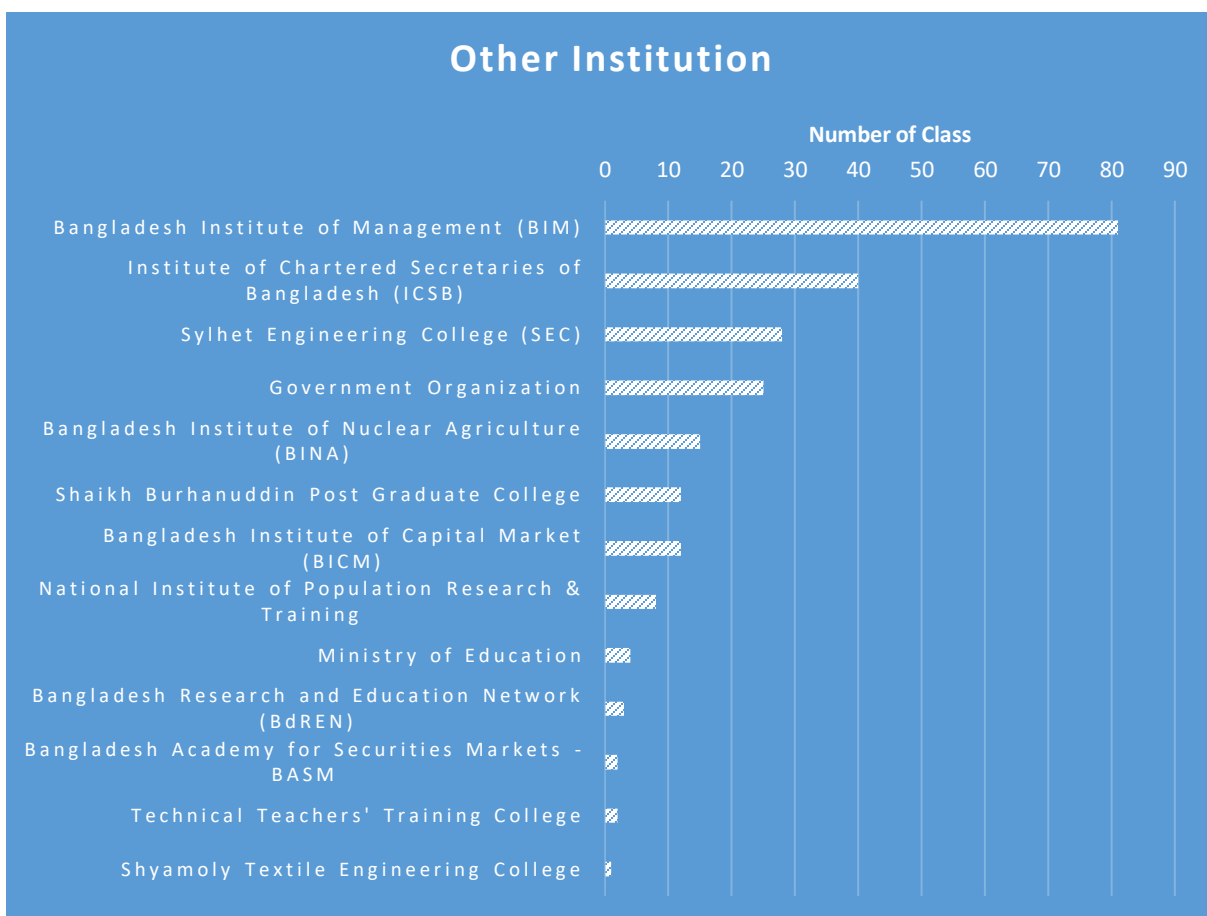


Figure 6: Other Institution vSession Usage Graph

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)	2522	2829:21:44	86996
2	Bangladesh University of Engineering & Technology (BUET)	1502	1693:32:23	21818
3	Others	664	751:32:06	12074
4	Shahjalal University of Science and Technology (SUST)	603	656:14:33	20298
5	United International University (UIU)	413	510:06:25	4762
6	Chittagong University of Engineering & Technology (CUET)	401	404:53:39	5723
7	Bangladesh University of Professionals (BUP)	368	477:34:09	9887
8	Dhaka University of Engineering & Technology (DUET)	366	419:51:18	11819
9	Military Institute of Science and Technology (MIST)	321	390:55:18	2692

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
10	Khulna University of Engineering & Technology (KUET)	313	282:56:22	4097
11	Rajshahi University of Engineering & Technology (RUET)	276	280:34:45	3131
12	University of Chittagong (CU)	180	259:31:38	6544
13	Khulna University (KU)	175	183:08:18	2348
14	Jagannath University (JnU)	152	189:42:28	6181
15	Jahangirnagar University (JU)	143	167:18:11	3714
16	Bangladesh Agricultural University (BAU)	142	152:11:42	4355
17	Jashore University of Science and Technology (JUST)	136	153:23:13	1959
18	Bangabandhu Sheikh Mujibur Rahman Agricultural University	130	151:19:04	6453
19	Islamic University of Technology (IUT)	126	147:42:56	707
20	Noakhali Science and Technology University (NSTU)	121	125:46:09	3809
21	Bangladesh Open University (BOU)	113	142:54:50	4208
22	ICMAB	104	174:24:04	3137
23	National University (NU)	102	119:12:53	5770
24	University of Rajshahi (RU)	91	130:50:18	4350
25	Patuakhali Science and Technology University (PSTU)	87	82:18:06	1722
26	BRAC University	86	133:45:11	938
27	BSMRAAU	84	121:15:59	1274
28	Joypurhat Girls Cadet College	84	53:24:48	4447
29	Hajee Mohammad Danesh Science & Technology University (HSTU)	77	83:56:48	2873
30	University of Barisal (BU)	73	94:25:06	2403
31	Pabna University of Science and Technology (PUST)	73	70:15:53	2604
32	Begum Rokeya University (BRUR)	71	100:43:53	2188
33	BdREN	71	69:18:33	940
34	SPFMS	68	106:05:51	736
35	Jhenidah Cadet College (JCC)	65	46:39:17	4172
36	Spectrum Engineering Consortium Limited	61	85:44:03	528
37	Data Edge	58	64:10:29	488
38	Mawlana Bhashani Science and Technology University (MBSTU)	50	48:54:00	1937
39	Daffodil International University	48	68:38:11	4913
40	Notre Dame College, Dhaka	44	43:37:29	562
41	University of Liberal Arts Bangladesh (ULAB)	41	51:05:13	255
42	Barishal Cadet College (BCC)	40	37:30:07	2295
43	UGC	38	62:11:30	1467
44	Institute of Chartered Secretaries of Bangladesh (ICSB)	38	53:27:28	862
45	BARD	38	52:46:46	2202
46	Sylhet Cadet College (SCC)	38	49:16:45	2828
47	Canadian University of Bangladesh	35	44:44:26	1264
48	NIPORT	34	45:08:12	3860
49	Sylhet Agricultural University (SAU)	34	39:27:28	1922
50	Bangabandhu Sheikh Mujibur Rahman Maritime University	34	35:03:03	312
51	University of Asia Pacific	32	53:40:26	808
52	Rajshahi Cadet College	31	39:15:00	2158
53	Chittagong Veterinary and Animal Sciences University (CVASU)	28	38:55:21	132
54	Manarat International University	27	32:46:22	827
55	Comilla University (CoU)	27	28:17:03	1073
56	fDLuDCf	25	24:53:14	410
57	Green University of Bangladesh	24	37:56:14	782
58	Ministry of Education	24	34:17:47	484

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
59	International Islamic University Chittagong (IIUC)	24	32:36:23	613
60	City University	23	24:50:55	215
61	North Western University (Khulna)	23	19:46:52	110
62	BTCL	22	36:39:47	912
63	Bangladesh Institute of Development Studies	22	29:30:27	573
64	Ahsanullah University of Science and Technology (AUST)	22	21:09:13	1168
65	Stamford University Bangladesh	21	22:21:57	141
66	Bangladesh Agricultural Research Institute (BARI)	20	36:05:34	933
67	BSMRSTU	20	23:35:38	915
68	Sher-e-Bangla Agricultural University (SBAU)	20	22:51:04	434
69	East West University (EWU)	19	26:45:21	189
70	The People's University of Bangladesh	19	13:13:36	156
71	Bangladesh Rice Research Institute (BRRI)	18	32:36:26	750
72	Independent University, Bangladesh	18	17:59:55	774
73	ICDDRDB	18	16:38:25	593
74	Jatiya Kabi Kazi Nazrul Islam University (JKKNIU)	18	16:37:55	345
75	IEDCR	17	24:15:05	191
76	Bangladesh International School & College (BISC)	17	16:08:31	158
77	Govt. Office	16	28:37:50	553
78	BGC Trust University Bangladesh	16	16:51:06	112
79	International Standard University (ISU)	15	20:19:10	400
80	Bangabandhu Sheikh Mujib Medical University (BSMMU)	13	17:36:40	215
81	Chittagong Independent University (CIU)	13	15:53:18	100
82	Dhaka International University (DIU)	13	15:20:46	152
83	Cumilla Cadet College	13	14:34:36	836
84	BPC Training Center	11	20:37:11	181
85	Bangladesh Sugar & Food Industries Corporation (BSFIC)	11	18:43:06	247
86	RTM Al Kabir Technical University (RTM-AKTU)	11	11:23:34	94
87	Bangladesh Securities & Exchange Commission (BSEC)	10	9:00:25	163
88	Port City international University	10	8:58:10	26
89	Bangladesh Army University of Science and Technology (BAUST)	10	5:23:12	80
90	Sheikh Hasina University (SHU)	10	4:07:33	90
91	Primeasia University	9	14:29:58	287
92	Faridpur Engineering College, Faridpur	9	13:09:29	169
93	Bangladesh University of Health Sciences – BUHS	9	10:33:20	91
94	BIGM	8	14:05:10	124
95	North South University	8	12:31:14	50
96	Gono Bishwabidyalay	8	9:12:53	66
97	EXIM Bank Agricultural University Bangladesh	8	9:07:46	50
98	Islamic University, Bangladesh (IU)	8	8:55:34	608
99	Textile Engineering College, Noakhali	8	7:43:06	314
100	Rajshahi Medical University	8	7:17:49	370
101	Premier University, Chittagong	7	4:42:01	19
102	Express Systems Limited	6	9:14:50	82
103	Bangladesh University of Textiles (BUTEX)	6	6:18:50	105
104	Cumilla Victoria Government College	6	5:57:03	387
105	Bangladesh University of Business and Technology (BUBT)	6	4:45:13	19
106	Dhamrai Govt. College	6	3:49:38	52
107	Bangladesh Institute of Capital Market (BICM)	5	9:11:34	49
108	Asian University of Bangladesh (AUB)	5	8:14:12	54
109	BJRI	5	6:02:43	61

Sl.	Name of The Institution	Number of Class	Sum of Duration (hh:mm:ss)	Sum of Participants
110	NATA	5	4:45:37	74
111	Chittagong Medical College	4	14:33:24	1072
112	International University of Business Agriculture and Technology	4	12:28:11	41
113	BGMEA University of Fashion & Technology	4	6:03:56	36
114	PMEAT	4	4:12:46	37
115	Fareast International University (FIU)	4	4:07:13	91
116	Customs Intelligence & Investigation Directorate	3	6:29:32	119
117	Bangladesh Institute of Management (BIM)	3	6:15:27	24
118	Chandpur Science and Technology University (CSTU)	3	4:57:01	46
119	University of Science and Technology Chittagong (USTC)	3	1:21:44	33
120	Sylhet Metropolitan University	3	0:54:34	311
121	Kazla Technologies Limited	3	0:51:00	8
122	Dhaka Dental College	2	5:35:17	6
123	Habiganj Agricultural University (HAU)	2	4:59:28	21
124	Bangladesh Islami University (BIU)	2	4:57:49	34
125	BANBEIS	2	2:57:47	135
126	SOMC	2	1:36:50	118
127	Rangamati Science and Technology University (RMSTU)	2	1:32:23	20
128	Sonargaon University (SU)	2	1:28:18	53
129	Bangladesh Computer Council (BCC)	2	0:38:56	6
130	Rangpur Medical College (RMC)	1	2:10:10	39
131	Ranada Prasad Shaha University (RPSU)	1	2:08:29	23
132	The Millennium University	1	1:50:51	4
133	Bangabandhu Digital University (BDU)	1	0:48:09	2
134	Faith Bangladesh	1	0:45:39	7
135	Sher-e-Bangla Medical College, Barisal	1	0:36:12	2
136	Local Government Engineering Department(LGED)	1	0:32:13	2
137	Varendra University	1	0:11:52	2
138	ic4rib	1	0:11:15	3

6.4 BdREN Total Zoom Usage Statistics

Total Number of Meetings/Classes	25359
Total Hour of Meetings/Classes	29606:01:28
Total Number of Participants	789483

Table 9: BdREN Total Zoom Usage Statistics

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
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

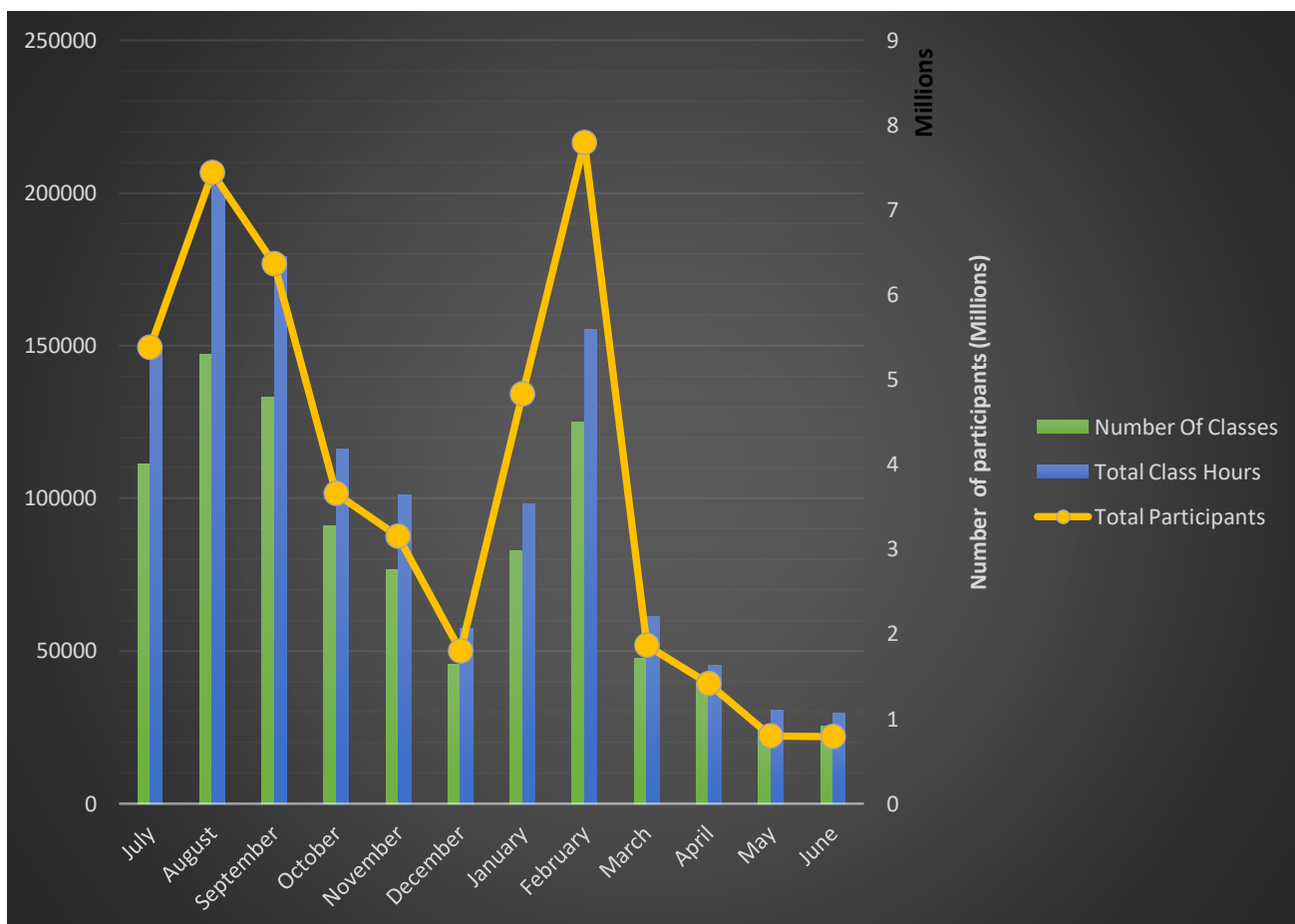


Figure 7: Month Wise Zoom Usage Graph in Last one year of 2021-2022

7. INSTITUTION WISE MAX HPC USAGE

Table 11: Institution Wise Max HPC Usage

University	Storage (GB)	Memory (GB)	CPUs (Core)	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

University	Storage (GB)	Memory (GB)	CPUs (Core)	Number of VMs
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	11
Total Result	141352	5500	2167	

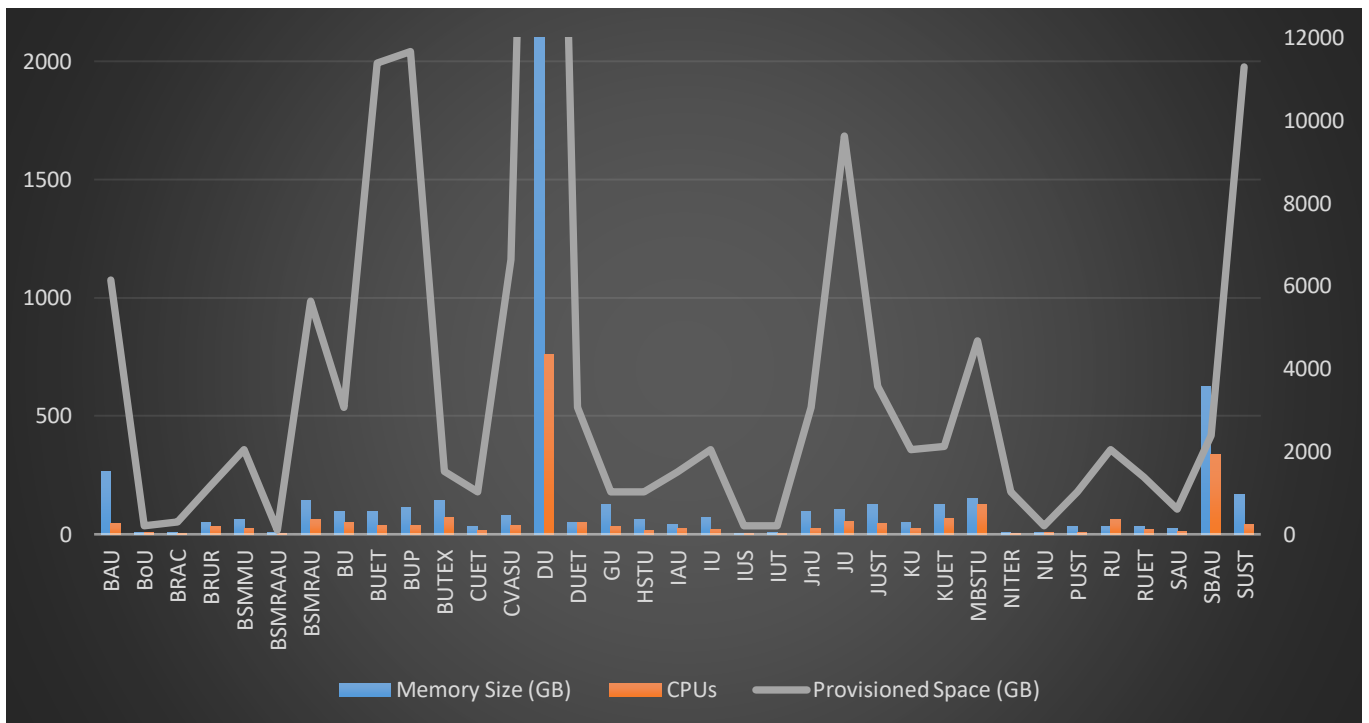


Figure 8: Institution Wise Max HPC Usage

8. ACRONYMS

AUB	Asian University of Bangladesh	KU	Khulna University
AUST	Ahsanullah University of Science & Technology	KUET	Khulna University of Engineering & Technology
AUW	Asian University for Women	LUS	Leading University, Sylhet
BARC	Bangladesh Academy for Rural Development	MBSTU	Mawlana Bhashani Science and Technology University
BARI	Bangladesh Agricultural Research Institute	MIU	Manarat International University
BAU	Bangladesh Agricultural University	MMC	Mymensingh Medical College, Mymensingh
BDU	Bangabandhu Sheikh Mujibur Rahman Digital University	NINMAS	National Institute of Nuclear Medicine & Allied Science
BdREN	Bangladesh Research and Education Network	NITER	National Institute of Textile Engineering & Research
BFRI	Bangladesh Fisheries Research Institute	NKN	National Knowledge Network
BIDS	The Bangladesh Institute of Development Studies	NOC	Network Operation Center
BLRI	Bangladesh Livestock Research Institute	NREN	National Research and Education Network
BOU	Banagladesh Open University	NSTU	Noakhali Science and Technology University
BRACU	BRAC University	NSU	North South University
BRRI	Bangladesh Rice Research Institute	NU	National University
BRUR	Begum Rokeya University, Rangpur	PSTU	Patuakhali Science and Technology University
BSMMU	Bangabandhu Sheikh Mujib Medical University	PUST	Pabna University of Science and Technology
BSMRAU	Bangabandhu Sheikh Mujibur Rahman Agricultural University	RAM	Random Access Memory
BSMRSTU	Bangabandhu Sheikh Mujibur Rahman Science and Technology University	RMC	Rajshahi Medical College, Rajshahi
BTCL	Bangladesh Telecommunications Company Limited	RU	University of Rajshahi
BU	University of Barishal	RUET	Rajshahi University of Engineering & Technology
BUBT	Bangladesh University of Business and Technology	SAU	Sylhet Agricultural University
BUET	Bangladesh University of Engineering and Technology	SBAU	Sher-e-Bangla Agricultural University
BUP	Bangladesh University of Professionals	SBMC	Sher-e-Bangla Medical College, Barishal
BUTEX	Bangladesh University of Textiles	SOMC	Sylhet MAG Osmani Medical College, Sylhet
CMC	Chittagong Medical College, Chittagong	SSHMC	Shaheed Suhrawardy Medical College, Dhaka
CoU	Cumilla University	SSKMC	Sheikh Sayera Khatun Medical College, Gopalganj
CU	University of Chittagong	SSMC	Sir Salimullah Medical College, Dhaka
CUET	Chittagong University of Engineering and Technology	SUST	Shahjalal University of Science and Technology
CVASU	Chattogram Veterinary and Animal Sciences University	TB	Terabyte
DDC	Dhaka Dental College, Dhaka	UGC	University Grants Commission of Bangladesh
DIU	Daffodil International University	VU	Varendra University
DMC	Dhaka Medical College, Dhaka		
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		
JUST	Jessore University of Science & Technology		

