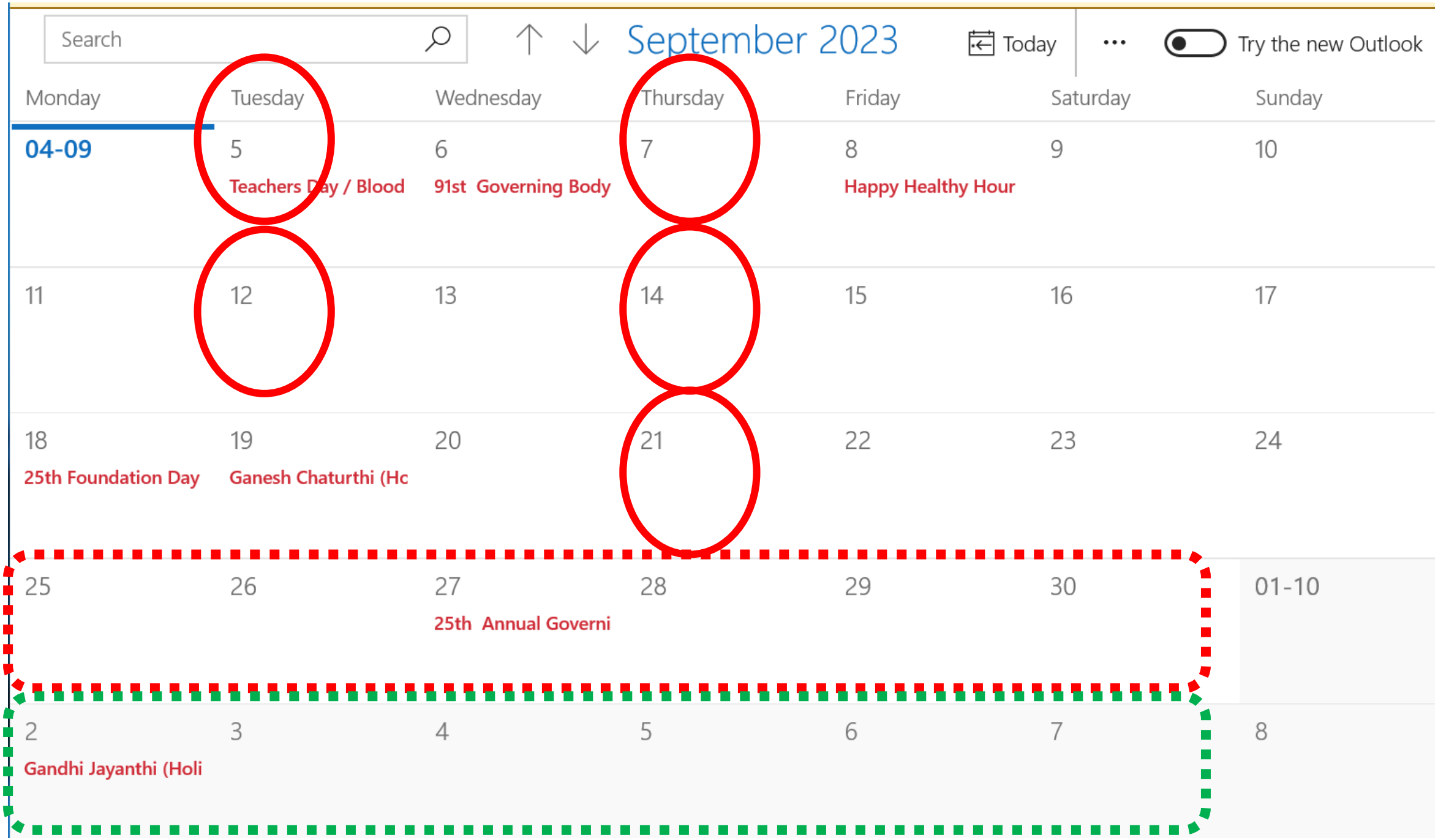
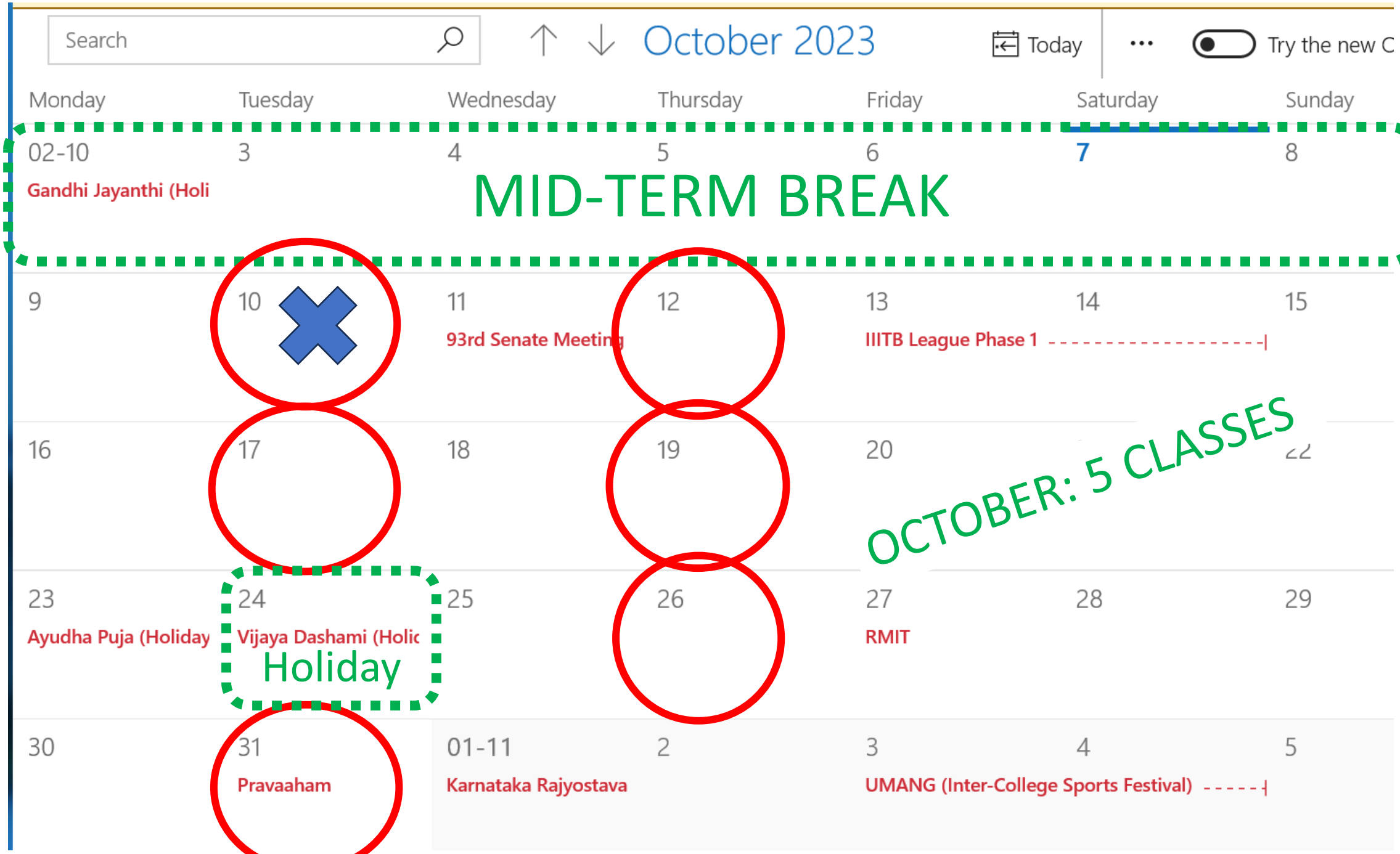
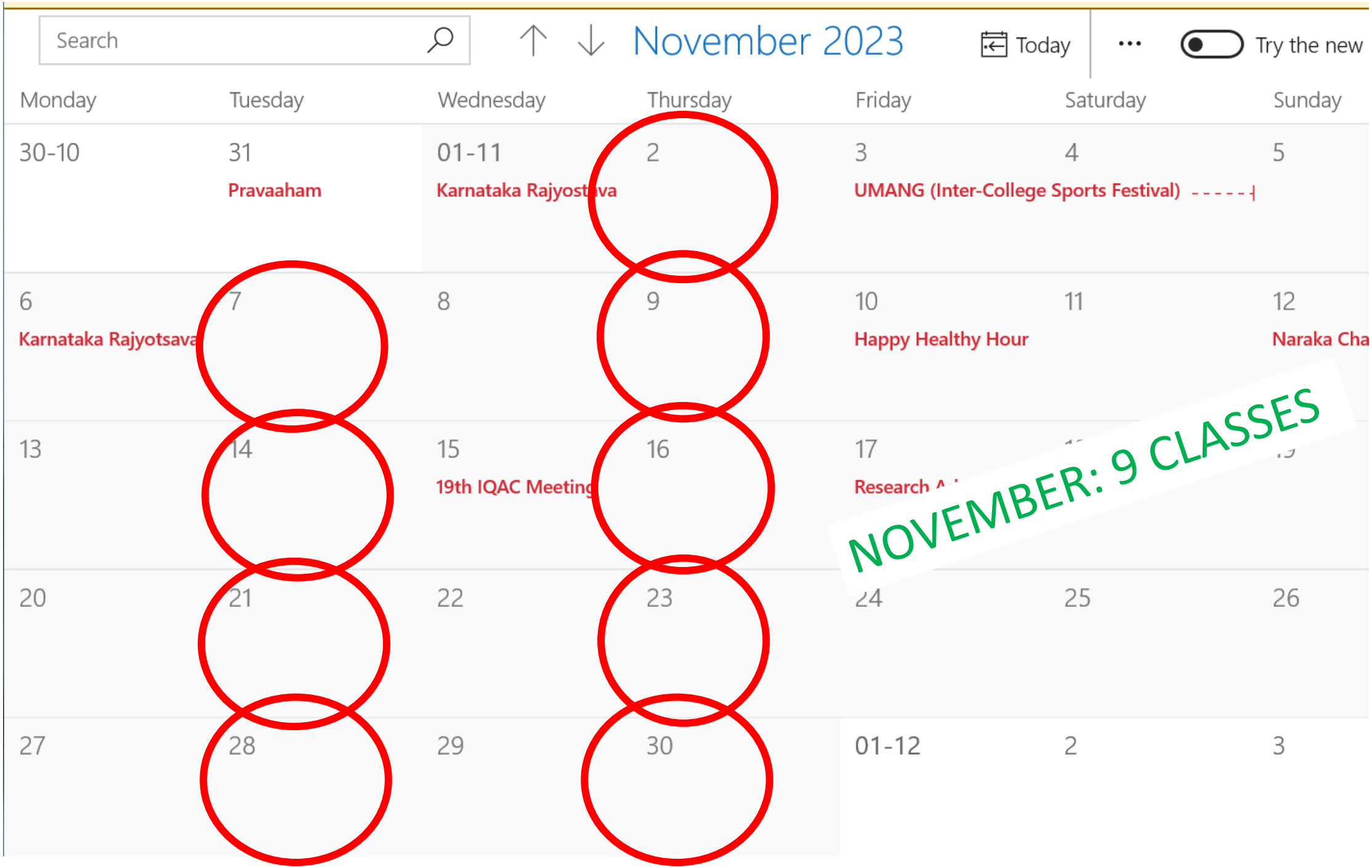

Search
September 2023
Today
Try the new Outlook
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
04-09
5
Teachers Day / Blood
6
91st Governing Body
7
8
Happy Healthy Hour
9
10
11
12
13
14
15
16
17
18
25th Foundation Day
19
Ganesh Chaturthi (Hc
20
21
22
23
24
25
26
27
25th Annual Governi
28
29
30
01-10
2
Gandhi Jayanthi (Holi
3
4
5
6
7
8


Search
October 2023
Today
Try the new C
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
02-10
Gandhi Jayanthi (Holi
3
4
5
6
7
8
MID-TERM BREAK
9
10
11
93rd Senate Meeting
12
13
IIITB League Phase 1
14
15
16
17
18
19
20
OCTOBER: 5 CLASSES
23
Ayudha Puja (Holiday
24
Vijaya Dashami (Holic
Holiday
25
26
27
RMIT
28
29
30
31
Pravaaham
01-11
Karnataka Rajyostava
2
3
UMANG (Inter-College Sports Festival)
4
5


Search
November 2023
Today
Try the new
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
30-10
31
Pravaaham
01-11
Karnataka Rajyostava
2
3
UMANG (Inter-College Sports Festival)
4
5
6
Karnataka Rajyotsava
7
8
9
10
Happy Healthy Hour
11
12
Naraka Cha
13
14
15
19th IQAC Meeting
16
17
Research
20
21
22
23
24
25
26
27
28
29
30
01-12
2
3
NOVEMBER: 9 CLASSES

SELF-PREDICTION

		AUDIO / SPEECH	LANGUAGE	IMAGE
Generative	**Auto-Regressive (AR)**	WaveNet WaveRNN	AR-LM GPT 6 XLNet	NADE Pixel CNN, Pixel RNN iGPT 5
	VAE			AE – Variational Bayes
	GAN, Diffusion			
Masked Generation / Masked Language Model		Masked-LM for ASR Wav2Vec 7 HuBERT	Masked-LM BERT 6	DAE CAE Colorization
Innate Relationship / Context based				Relative Position 2 Jig Saw Rotation 1
Hybrid Self-prediction		VQ-VAE + AR 5 (Jukebox)		

NOT COVERED

CONTRASTIVE LEARNING

	AUDIO / SPEECH	LANGUAGE	IMAGE
Inter-sample Classification (Instance Discrimination)	Contrastive Predictive Coding (CPC) [LOSS: NCE, InfoNCE]		MOCO SimCLR [LOSS: CL] Barlow Twins BYOL SimSiam
Feature Clustering			Deep Cluster
Multi-view Coding			

4

3

1 2	SELF-PREDICTION	INNATE RELATIONSHIP (Context-based)	1. ROTATION 2. RELATIVE POSITION	IMAGE
3	CONTRASTIVE LEARNING	INTER-SAMPLE CLASSIFICATION	1. Instance Discrimination 2. SimCLR [Contrastive Loss] 3. Theory – Guarantees / Bounds	IMAGE
4	CONTRASTIVE LEARNING	INTER-SAMPLE CLASSIFICATION	Contrastive Predictive Coding (CPC), [NCE, InfoNCE Loss]	AUDIO/ SPEECH
5	SELF-PREDICTION	GENERATIVE (VAE)	1. AE – Variational Bayes 2. VQ-VAE + AR	IMAGE AUDIO/ SPEECH DROPPED
6	SELF-PREDICTION	GENERATIVE (AR)	1. AR-LM – GPT 2. Masked-LM – BERT	LANGUAGE
7	SELF-PREDICTION	MASKED-GEN (Masked LM for ASR)	1. Wav2Vec / 2.0 2. HuBERT	AUDIO/ SPEECH

1 2	SELF-PREDICTION	INNATE RELATIONSHIP (Context-based)	1. ROTATION 2. RELATIVE POSITION	IMAGE	
3	CONTRASTIVE LEARNING	INTER-SAMPLE CLASSIFICATION	1. Instance Discrimination 2. SimCLR [Contrastive Loss] 3. Theory – Guarantees / Bounds	IMAGE	
4	CONTRASTIVE LEARNING	INTER-SAMPLE CLASSIFICATION	Contrastive Predictive Coding (CPC), [NCE, InfoNCE Loss]	AUDIO/ SPEECH	3 CLASSES
5	SELF-PREDICTION	GENERATIVE (VAE) DROPPED	1. AE – Variational Bayes 2. VQ-VAE + AR	IMAGE AUDIO/ SPEECH	
6	SELF-PREDICTION	GENERATIVE (AR)	1. AR-LM – GPT 2. Masked-LM – BERT	LANGUAGE	3 CLASSES 3 CLASSES
7	SELF-PREDICTION	MASKED-GEN (Masked LM for ASR)	1. Wav2Vec / 2.0 2. HuBERT	AUDIO/ SPEECH	5 CLASSES

Thank you !!