

#### Secure Communications on Online Learning Platforms

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## Need for secure communications

Recent years have witnessed a sudden shift and increased use of technology by the teachers

- With the sudden shift to remote and hybrid learning models, teachers had to quickly adapt to digital tools and online platforms to continue delivering education
- These platforms offered a wide range of features and functionalities to support teaching and learning, communication, assessment, professional development, and collaboration among educators
- It's important for teachers to explore these platforms, consider their specific needs and preferences, and choose the ones that align with their teaching goals and objectives
- It is crucial for teachers and users to be aware of the potential threats associated with the use of online platforms.



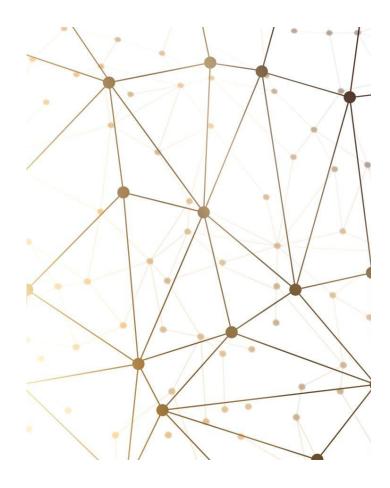
## Initiatives by the MoE

- DIKSHA (Digital Infrastructure for Knowledge Sharing)
- E-Pathshala
- National Repository of Open Educational Resources (NROER)
- SWAYAM (Study Webs of Active-Learning for Young Aspiring Mind
- VIDWAN



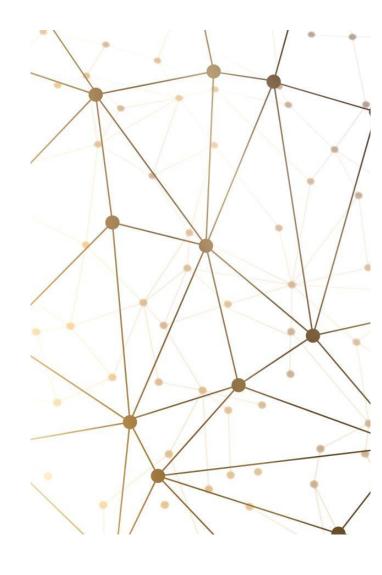
#### Online Platforms

- There are several online platforms specifically designed for teachers to support various aspects of their work. Some popular online platforms used by teachers are:
- Learning Management Systems (LMS):
- Google Classroom
- Canvas
- Schoology
- Blackboard
- Moodle



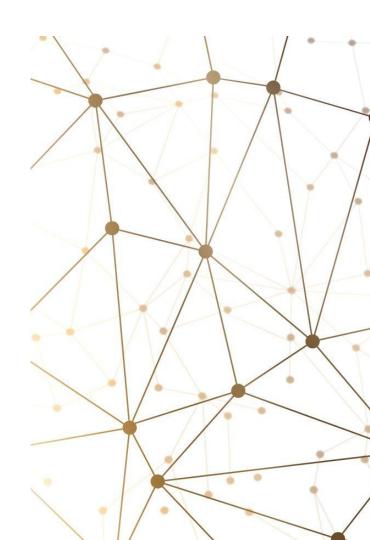
## Communication & Collaboration Tools:

- Microsoft Teams
- Zoom
- Slack
- Remind
- Edmodo



## **Content Creation and Sharing Platforms**

- Nearpod
- Pear Deck
- Flipgrid
- Padlet
- Seesaw



## **Assessment and Grading Platforms:**

- Kahoot!
- Quizlet
- Socrative
- Edpuzzle
- GradeCam



## **Professional Development and Networking:**

- EdWeb
- TeachBoost
- Edutopia
- Twitter (educator communities and chats)
- LinkedIn Groups (education-focused groups)



### **Virtual Classroom Platforms**

- Microsoft Teams
- Google Meet
- Zoom
- Cisco Webex
- Big Blue Button



## **Curriculum Resources and Lesson Planning:**

- Teachers Pay Teachers
- Share My Lesson
- CommonLit
- BetterLesson
- PBS LearningMedia



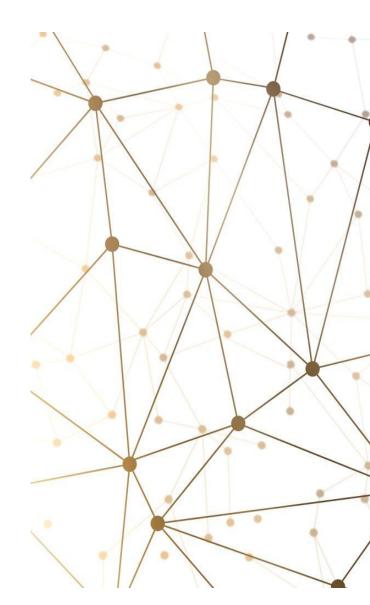
## **Online Student Engagement and Gamification**

- Classcraft
- Breakout EDU
- ClassDojo
- Gimkit
- Quizizz



## Internet Safety

- Internet is a public space
- It's intertwined closely with our online lives
- Effects are far reaching
- Understanding importance of Netiquettes
- Importance of clean digital footprints is important
- Identifying online predators
- Awareness of IT Act, including clauses that deal with hacking, stealing of data
- Knowledge of modifying privacy settings on FB, WhatsApp, Insta, LinkedIn etc.



#### Major security issues in online communications

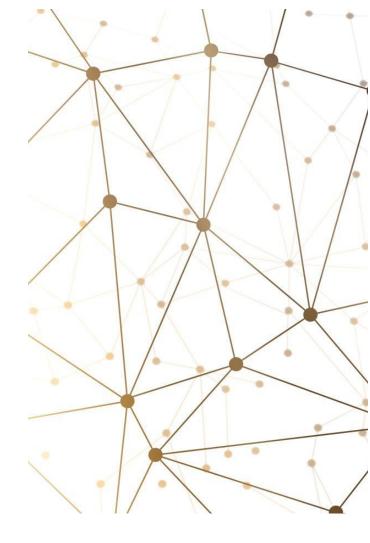
- Phising
- Data breaches
- Malware and viruses
- Weak authentication and access control
- Lack of encryption
- Insider threats
- Social engineering
- Insecure file sharing
- Privacy concerns



#### What should the Teachers do?

#### To mitigate these security issues:-

- teachers should practice strong password hygiene,
- enable two-factor authentication (2FA),
- use secure and encrypted communication channels,
- stay vigilant for phishing attempts,
- keep software and devices updated,
- follow best practices for online security and privacy.
- stay informed about emerging security threats
- regularly review and adhere to their institution's security policies and guidelines.



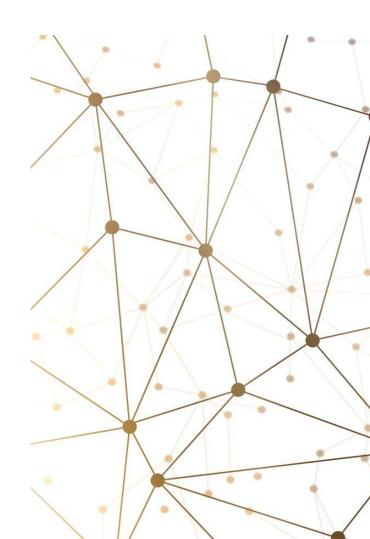
#### Contd.

- Choose reputable and secure platforms:
- Use secure and unique login credentials:.
- Encrypt communications
- Be cautious with file sharing:
- Verify recipient identities



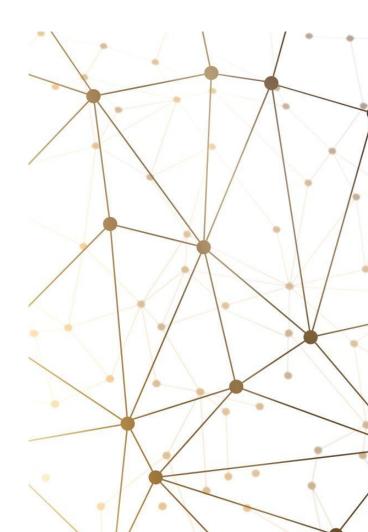
#### Contd.

- Be vigilant and sceptical
- Learn to identify phishing attempts
- Never share sensitive information
- Enable two-factor authentication (2FA)
- Use strong, unique passwords



#### Contd.

- Be cautious with links and attachments:
- Keep software and devices updated:
- Educate students and colleagues:
- Report suspicious activity:
- Stay informed
- Following reputable sources



# Thanks!

