

Course Outline: Professional Certificate in Innovative Teaching Practices with A Certification from Microsoft

Active Learning & Learning Taxonomy

- Understand student learning styles
- Understand and apply modern learning taxonomies
- Develop Higher Order Thinking Skills
- Be able to implement teaching strategies which build on existing knowledge of the student
- Be able to implement active learning strategies to evolve students as active learners

Technology for Teaching and Learning

- Introduction to Digital Pedagogy
- Difference Between Digital Pedagogy and Classroom Pedagogy
- Understand how technology can support teaching and learning
- Understand the TPACK Model to help integrate technology in the classroom with ease
- Use Artificial Intelligence tools in your classroom
- Be able to use Digital Tools in all formats of the classroom:
- Project-based Classroom,
- Blackboard-based classroom
- Computer-based Classroom
- Online Classroom
- How to pick the right tool for your objective
- Create an e-book & learn best practices for creating an e-book.
- Create Digital Classroom to help teachers to share resources, give assignments, grade students' work and provide effective feedback
- Best strategies to conduct formative and summative assessments using digital tools
- Create flipped lessons using PowerPoint Recorder
- Gamify quiz to make assessments more exciting
- Integrate AR VR in your lessons
- Develop a professional website to share your teaching- learning resources with your students
- Create your own YouTube Channel and use a playlist to create curated lesson videos.

Microsoft Certified Educator

- Exam Prep on 10 Microsoft Tools and 21st Century Skills to prepare for Microsoft Certified Educator Exam
 - OneNote
 - MS Teams
 - Word
 - Excel
 - Powerpoint
 - Sway
 - Flip
 - MS Calendar
 - One Drive
 - Bing Chat

Modern Teaching Practices

- Learn most effective types of Modern Classroom techniques
 - Blended Learning
 - Project Based Learning
 - Flipped Classroom
 - Self-paced Learning

Differentiated and Personalised Learning

- Understand the need for Differentiated Instruction.
- Personalise learning to support diverse students
- Be able to implement differentiated instructional strategies in the classroom
- Understand the concept of Inclusive Education
- Understand various types of Special Learners
- Use strategies to implement Inclusive Education in the classroom

21st Century Learning Design and Cross-Curricular Integration

- Understand the meaning and need for 21st century skills.
- Learn how NEP and International Curriculum focus on developing the 21st century skills in students.
- How innovative teaching practices can support student learning to develop 21st Century Skills.
- Learn to integrate 21st Century Skills into your lessons as per the New National Education Policy (NEP) 2020.
- Plan and customise incorporating 21st Century Skills in lessons and activities to support teaching in International Curriculums such as IGCSE and IB
- **Learn 21st century skills such as**
 - **Collaboration**
 - **Skilled Communication**
 - **Real World Problem-Solving & Innovation**
 - **Knowledge Construction**
 - **Self-Regulation**
 - **Use of ICT for Learning**
- Be able to apply cross-curricular instruction

Strategies for Effective Lesson Planning

- Understand the importance and structure of a lesson plan
- Understand the Gagne's model for Effective Lesson Planning
- Understand and apply effective questioning in the classroom.
- Integrate Bloom's Taxonomy, Teaching Strategies, Active Learning Strategies, 21st-century skills in lessons
- Be able to create an effective lesson plan in line with the
- curriculum in your specialist area
- Be able to source and curate useful online resources for teaching-learning

Enhancing teaching and learning through Data Analysis

- Learn to record data using Spreadsheets
- Analyse and interpret student's performance data.
- Interpret student performance trends in your classroom

- Be able to use technology to manage student data
- Develop strategies to support students using data analysis method

Alternative Assessment and Feedback

- Understand different types of assessment and their application
- Be able to use rubrics in assessment
- Understand different types of Alternative Assessment methods
- Be able to conduct, record and communicate assessment judgements
- Understand the importance of feedback and its application
- Be able to give feedback to students and other stakeholders
- Be able to use teacher and student reflection as part of feedback
- Be able to use reflection to support own professional development

International Curriculum (IGCSE and IB)

- Difference between National and International Curriculum
- Know of the various International Curriculum and their structure
- Learn various teaching strategies that need to become a part of International Curriculum
- Know the relevance of 21st Century Skills in the International Curriculum

Dynamics in Classroom Management

- Understanding the Behaviour Management Theory
- Understand how to manage student behaviour in a learning environment
- Be able to apply technology for classroom management

Motivating Gen Z and Social Emotional Learning

- Introduction to Social-emotional learning
- How SEL helps in developing self-awareness, self-control, and interpersonal skills
- Correlation between the skills taught in SEL programs and academic achievement, positive behaviour, and healthier life choices.
- Key motivational concepts and the behaviourist approach to motivation.
- Explain how our mindsets and attributions influence our motivation.
- Explain how the motivation to learn is enhanced when the basic needs are fulfilled.

Social Media in Education

- How Social Media can be integrated into Education to develop Creativity, Critical Thinking & IT Skills in students
- Learn to use Quora, Pinterest and Instagram in Education
- Learn LinkedIn to develop networking

Accelerating Employability

- Create an impressive professional profile
- Apply strategies for effective lesson planning to give a demo lesson
- Understand the nuances of the interview process
- Demonstrate professional knowledge and conduct during the interview process

Action Research

- Introduction to Action Research
- Need for Action Research in the classroom
- Plan an Action research for your class.

Each participant will be preparing 8 Portfolios that can be presented during recruitment.

1. Implement Modern Teaching Practices in a Lesson
2. Implement Active Learning Strategies in a Lesson
3. Create a Lesson Plan using technology
4. Develop a lesson to develop 21st-century skills
5. Create a test using an Alternative Form of Assessment including Bloom's taxonomy
6. Prepare your resume
7. Create a lesson plan integrating Differentiated Instruction in the classroom
8. Integrate SEL into your lesson

MasterClass - Advanced Digital Tools and Apps for Educators

Graphic Design for Education

- Basics of Design Tools
- Elements required to create impactful Design for Social media
- Design Infographic, Brochures, Banners and Social Media posts
- Create Worksheets for various subjects
- Create Social Media Posts & dynamic Presentation

Video Editing

- Add Animation, transition, banner and sound
- Learn to merge or crop the videos
- Learn to create an impactful video for Teaching Learning Process
- Learn how to record and Edit Educational Video
- Create Video Testimonials to drive quality leads
- Create a Video for YouTube Channel to get more subscribers and views
- Create Story videos to engage your audience

AI in Education

- Generate examples of real-world applications of class concepts.
- Create stories by providing context
- Learn to create images using AI
- Generate reading comprehension questions.
- Learn to draft emails and circulars with ease
- Paraphrase a long text to a precise, shorter form
- Learn Google Lens to identify objects and provide relevant information through a smartphone camera or image.

Introduction to Coding

- Understand basics of coding
- Learn how to use coding for your subjects
- Design a fun activity using coding

Gamification in Education

- Understand the differences between Game Based Learning Vs Gamification
- Learn how gamification can increase student engagement
- Learn about Game elements and mechanisms
- Learn 3 most powerful gamification tools and Apps that you can use in your lesson plan
- Learn the best practices for creating educational content and activities using Gamification

Interactive Learning Experience

- How to create an interactive presentation
- Learn to add simulation, and 3D Content to your teaching content
- Learn to add Virtual Reality, Quizzes to the presentation
- Learn to add Quizzes within YouTube Videos
- Learn to share the resources in different ways
- Learn how to use Nearpod for free

AR/VR in Education

- Brief history and evolution of AR/VR technology
- Benefits of AR/VR in education
- Examples of how AR/VR can enhance traditional classroom learning
- Case studies of successful implementation of AR/VR in the classroom
- Learn how to enhance your lesson using Google AR/VR, Nearpod VR, BBC VR
- How to use ARVR in Maths/Science/ English/Social Science

Productivity Tools

- Learn to use of Screencastify software to provide video feedback to students or record informational videos
- Learn how to use Miro, an online collaborative whiteboard platform that enables the creation of mind maps, and brainstorming boards, and visually collaborate in real time.
- Learn to annotate and add comments or notes, to various types of digital content, such as images, videos, documents and websites using Annotate.net
- Auto-generate step-by-step guides and instruction manuals using Scribe

Subject Specific Apps

Languages

- Using Book Creator, learn to improve students' writing skills in a fun and creative manner.
- Build a story and record yourself through a story-building app using Story Jumper
- Learn Duolingo to provide practice while learning new languages
- Develop levelled reading skills, grammar skills and improve vocabulary using interactive and engaging learning experiences by using ReadAlong by Google
- Develop reading comprehension skills in an engaging environment by using Read Works.
- Use Google input tools to type in any language
- Learn to translate text to any language using Google Translate

Social Science

- Design Virtual trips and projects using Google Earth
- Use map layout for teaching locations and pinning locations while teaching
- Use a timeline for creating historical events in chronological order
- Access 360-degree panoramas of historic landmarks, 3D models, Information in AR, photos, videos, and virtual tours of museums, galleries, and cultural institutions around the world.
- Bring art, history, and culture to life in an interactive and engaging way.

Science

- Tools like Physics Classroom and Chem Collective to simulate real-world laboratory experiments in chemistry and physics
- Use Arduino Science Journal to conduct scientific experiments by measuring the surrounding world with sensors
- Nearpod 3D Models related to various scientific topics
- Phet Virtual Simulation to provide hands-on learning of complex science problem

Mathematics

- Use Geogebra to visualize and manipulate mathematical objects to perform calculations and analyse mathematical relationships using graphing calculator
- Use Phet Simulation tool to explain complex mathematics problems
- Use gamification app to build mathematical concepts
- Equatio to Create and format mathematical equations, formulas, and expressions in a quick and easier manner
- RoboCompass for geometric constructions.
- Geoboard to draw line segments and polygons to investigate perimeter, area, and angles.
- Google Earth and Maps to measure areas

Preschool

- Use apps like Reading Bear to develop phonics skills using interactive animations, audio, and video segments
- Provide educational games and activities in Literacy, Numeracy and Skills using Abcya
- Build a story and record yourself through a story-building app using Story Jumper
- Make phonics learning fun and engaging with Jolly Phonics App

Note: We will conduct these Masterclasses within 6 months of completing the Microsoft Certified Educator program, providing an excellent opportunity for learners to further enhance their technological skills. Please note that masterclass topics are subject to change.