

Certificate Course Title: AI in Education

Course Description:

This certificate course delves into the transformative role of Artificial Intelligence (AI) in reshaping the landscape of education. Participants will explore cutting-edge AI technologies and their applications in various educational contexts. Through a combination of theoretical insights and hands-on exercises, learners will gain practical skills to leverage AI tools effectively to enhance teaching, learning, and administrative processes in educational settings.

Course Objectives:

- Understand the fundamentals of Artificial Intelligence and its relevance to education.
- Explore innovative AI-driven solutions for personalized learning and adaptive assessment.
- Examine ethical considerations and challenges associated with AI integration in education.
- Develop practical skills to implement AI tools for pedagogical enhancement and student engagement.

Course Structure:

Module : 1 Introduction to AI for Education

- Overview of AI technologies and their applications in education
- Importance of AI in modern teaching and learning environments

Module : 2 Understanding Copilot

- Introduction to Copilot, an AI-powered coding assistant
- Exploring Copilot's features and functionalities
- Integrating Copilot into lesson planning and coding activities

Module : 3 Utilizing ChatGPT for Education

- Introduction to ChatGPT, a conversational AI model
- Creating interactive learning experiences with ChatGPT
- Implementing ChatGPT in virtual classrooms and online discussions

Module : 4 Enhancing Content Creation with AI

- Leveraging AI for content generation and curation
- Using AI tools like Copilot and ChatGPT to create educational resources, quizzes, and assessments
- Customizing content to meet the needs of diverse learners

Module: 5 Personalized Learning with AI

- Understanding the role of AI in personalized learning
- Implementing AI-driven adaptive learning platforms
- Providing tailored feedback and support to individual students using AI tools

Module : 6 Exploring Curipod for Educational Podcasts

- Introduction to Curipod, an AI-powered podcast creation platform
- Designing educational podcasts with Curipod
- Integrating podcasts into teaching and learning activities

Module : 7 Ethical Considerations in AI

- Addressing ethical considerations in AI-enhanced education
- Ensuring fairness, transparency, and accountability in AI algorithms and applications
- Promoting responsible use of AI tools in educational settings

Module : 8 Capstone Project

- Participants will undertake a capstone project to apply AI concepts and tools to solve a real-world educational challenge.

Teaching Methodology:

- Interactive lectures by experts in AI and education
- Personal Laptop with MS Office 365 and Internet is Mandatory
- Hands-on workshops and practical exercises using Copilot, ChatGPT, and Curipod
- Group discussions and collaborative projects
- Guest lectures by industry professionals and AI practitioners

Evaluation and Certification:

- Continuous assessment of participants' engagement and understanding throughout the course
- Completion of practical assignments and projects demonstrating proficiency in using Copilot, ChatGPT, and Curipod for educational purposes
- Certificate of completion awarded to participants who meet the course requirements and demonstrate competency in leveraging AI technologies in teaching

Assessment Criteria:

Participation in discussions and activities: 20%

Assignments and quizzes: 30%

Course Completion Exam: 50%

Credit:

3 Credits (equivalent to 45 hours of instruction)

Prerequisites:

Basic understanding of education systems and technology usage.

Who Should Attend:

Educators

Educational administrators

EdTech professionals

Policy makers in education

Delivery Method:

Online, asynchronous learning platform

Certificate:

Upon successful completion of the course, participants will receive a certificate of completion.

Course Title: Certificate Course in Microsoft Excel in Education

Course Overview:

This course is designed to provide educators with the knowledge and skills to leverage Microsoft Excel as a powerful tool for data analysis, organization, and instructional planning in educational settings. Participants will learn essential Excel functionalities and explore practical applications of Excel in curriculum development, assessment, and data-driven decision-making.

Objectives of the Course:

- To use MS Excel in data analysis, organization, and instructional planning in education.
- To use MS Excel for Research Purpose and Decision making.

Course Modules:

Introduction to Microsoft Excel

- Overview of Excel interface and functionalities
- Importance of Excel skills for educators & researchers
- Basic operations and navigation in Excel

Data Entry and Formatting

- Entering and editing data in Excel worksheets
- Formatting text, numbers, and cells for clarity and consistency
- Using styles, themes, and formatting options to enhance visual appeal

Formulas and Functions

- Introduction to Excel formulas and functions
- Performing basic calculations (e.g., addition, subtraction, multiplication, division)
- Using built-in functions (e.g., SUM, AVERAGE, COUNT) for data analysis

Data Analysis and Visualization

- Sorting and filtering data in Excel
- Creating charts and graphs to visualize data trends
- Using Excel's data analysis tools (e.g., PivotTables, PivotCharts) for deeper insights

Managing Worksheets and Workbooks

- Organizing data across multiple worksheets and workbooks
- Linking and referencing data between worksheets and workbooks
- Protecting and securing Excel files

Advanced Excel Techniques

- Using advanced functions and formulas (mean, median, mode, range, standard deviation, frequency, distribution, ANOVA, ANCOVA.)
- Conditional formatting for data visualization and analysis

Teaching Methodology:

- Interactive tutorials and demonstrations of Excel functionalities
- Personal Laptop with MS Office is Mandatory
- Hands-on practice sessions with guided exercises and real-world scenarios
- Group discussions and collaborative problem-solving activities

Evaluation:

- Participation in discussions and activities: 20%
- Assignments and quizzes: 30%
- Course Completion Exam: 50%

Course Duration:

2 Credits (30 Hrs.)

Resources:

- Course materials, tutorials, and resources provided electronically
- Access to online Excel resources, templates, and tutorials
- Recommendations for further reading and self-paced learning on Excel

Title: Certificate Course in English Language Proficiency

Overview:

The Certificate Course in English Language Proficiency is designed to enhance participants' understanding and application of the English language in various contexts. This comprehensive program covers grammar, vocabulary, writing skills, speaking skills, and comprehension. Through interactive sessions, practical exercises, and personalized feedback, participants will develop confidence and competence in using English effectively.

Objectives of the Course:

- To Comprehend English Language Grammar, Vocabulary, Reading Skill and Writing Skill
- To use English Language in formal-informal writing, editing. Skimming, Scanning

Course Structure:

Module 1

Week 1-2: Foundations of English Grammar

- Parts of speech
- Sentence structure
- Tenses and verb forms
- Subject-verb agreement
- Common grammatical errors and how to avoid them

Module 2

Week 3-4: Building Vocabulary and Word Usage

- Strategies for expanding vocabulary
- Synonyms, antonyms, and idiomatic expressions
- Prefixes, suffixes, and root words
- Effective use of dictionaries and online resources

Module 3

Week 5-6: Writing Skills

- Sentence construction and paragraph development
- Essay writing techniques
- Formal vs. informal writing
- Editing and proofreading

Module 4

Week 7-8: Comprehension and Reading Skills

- Understanding different types of texts (fiction, non-fiction, academic)
- Skimming and scanning techniques
- Note-taking and summarizing
- Critical reading and analysis

Module 5

Week 9-10: Practical Application and Assessment

- Real-life scenarios and simulations

- Group projects and presentations

Methodology:

- Interactive lectures and discussions
- Group activities and pair work
- Multimedia presentations
- Assignments and quizzes
- Individual feedback and coaching sessions

Assessment:

- Weekly quizzes to gauge understanding of concepts
- Assignments to apply learned skills in practical scenarios
- Mid-term and final exams to assess overall proficiency
- Participation and engagement in class activities

Duration:

- **30 Hrs. (2 Credits)**

Evaluation:

- Participation in discussions and activities: 20%
- Assignments and quizzes: 30%
- Course Completion Exam: 50%

Certification:

Upon successful completion of the course and passing the final assessment, participants will receive a Certificate in English Language Proficiency, recognizing their achievement and competency in the English language.

Enrolment Requirements:

Proficiency in basic English (speaking, reading, and writing)

Access to a computer with internet connection

Commitment to attend classes and complete assignments

એકમ-૧ : બાળવિકાસનો પાથો

- બાળકનો અર્થ
- બાળવિકાસના મુખ્ય ખ્યાલો
- બાળવિકાસના સિદ્ધાંતો
- બાળવિકાસના ઐતિહાસિક અને પ્રવર્તમાન પરિપ્રેક્ષ્ય
- બાળવિકાસને અસર કરતા પરિબળો : જાતિ, વર્ગ, લૈંગિકતા, સંસ્કૃતિ
- બાળવિકાસના વિવિધ તબક્કાઓની વિચાર પ્રક્રિયા
- બાળવિકાસની અવસ્થાઓ
 - ગર્ભ બંધાય ત્યારથી જન્મ સુધી (ગર્ભાવસ્થા) (Prenatal Stage)
 - શૈશવકાળ - જન્મથી ૦૫ વર્ષ સુધી (Childhood)
 - જન્મથી ૨ અઠવાડિયું : બચ્ચું (Neonate)
 - પ્રથમ ૨ વર્ષ : શિશુ (Infant)
 - ૨ થી ૫ વર્ષ : બાળક (Child)
 - શૈશવકાળ - ૬ થી ૧૧ વર્ષ (Late Childhood)
- બાળકના જ્ઞાનાત્મક, ભાષા, સામાજિક અને ભાવનાત્મક વિકાસ

એકમ-૨ : બાળસંભાળ

- બાળસંભાળની અનિવાર્યતા
- તંદુરસ્ત બાળવિકાસ માટે ધ્યાનમાં લેવાની કાળજીઓ
- રમત આધારિત શિક્ષણ અને સંશોધન
- બાળકનો ચેષ્ટા વિકાસ
- બાળકોની ટેવો અને તેની સુધારણા
- બાળકનો ભાષાવિકાસ
- બાળકને સ્વાવલંબી બનાવવા શું કરવું?
- વિશિષ્ટ બાળક : પ્રતિભાશાળી બાળકો, દિવ્યાંગ બાળકો, ધીમી ગતિના બાળકો
- બાળકના સારસંભાળમાં મનોવૈજ્ઞાનિક ભૂમિકા

સંદર્ભગ્રંથો :

- બાલ વિકાસ एवं पारिवारिक संबंध - सुरेश भटनागर
- Advanced Child Psychology - K.C.Shukla, Tara Chand
- बाल विकास - भगवानदास
- बाल विकास एवं बाल मनोविज्ञान - सुरेश भटनागर
- बाल मनोविज्ञान - विजेन्द्रकुमार वशिष्ठ
- बाल मनोविज्ञान - त्रिलोक चंद्रा, रंजना पाण्डेय
- વિકાસાત્મક મનોવિજ્ઞાન - અરવિંદ શાહ
- બાળવિકાસ અને શિક્ષણ - સુમતીબેન વૈદ્ય
- બાળપણ અને બાળઉછેર - ડૉ. જયેન્દ્રસિંહ ગોહિલ તથા અન્ય (અમીલ પ્રકાશન)