

Delhi Public School Kalyanpur

Dear Parents,

National Education Foundation (NEF) is USA's biggest **Educational Non-Profit Organization** based out of Washington D.C. We are delighted to introduce yourself to our **Grant-based, world-class STEM Academy Program** being launched for India's K-12 domain- after its huge success in USA. This endeavor is led by our desire to set-up **Showcase STEM Academies** in **20 select CBSE schools** of India. Your school, DPS Kalyanpur in amongst the few selected school, and you have an opportunity to acquire hands-on, experimental and practical knowledge of the real-life world skills and subjects at your fingertips via our classroom and online training sessions.

STEM Education stands for Science, Technology, Engineering and Mathematics. It is a practical and interactive learning methods used by majority of western education institutions for better teaching of a student to identify his/her field of interest and to guided for the same from their schooling years. A student who has undergone the STEM education programme will have better understanding and knowledge of the field, he/she would like to pursue, and will be motivated and curious to pursue their careers with a guided mindset.

Courses Offered for STEM Education Programme -

1. Course A (7th to 9th)

- Science
- Mathematics
- English
- Soft Skills
- Technical Skills

2. Course B (11th)

- Communication Skills
- Technical Presentations
- International Business
- Soft Skills
- Entrepreneurship
- IT specialization basics on Cyber Security
- Project Management
- Data Analytics
- Economics with Financial literacy
- Life Management skills
- Critical thinking

- Problem Solving & Learning Strategies
- Personal Fitness
- Foundation of programming
- Algebra and Financial Analytics
- Calculus applied in Technology

Specifications of STEM Education Programme –

1. A student can choose upto **4 subjects** at a time
2. Each subject is taught for a span of **24 hours**, thus the whole course is of **96 hours**
3. It is completed in a span of **6 months (2 classes on weekends in a month)**
4. Depending upon the subjects chosen, a student will be trained by professionals of that particular field.
5. Certifications on completion of programme, is granted by **State University of New York**
6. A hands-on learning based programme, STEM education will enable a student to do higher order thinking.

Financials of STEM Education Programme -

Course Fees :- **5900 INR + 18% GST = 6,962 INR**

Cheque to be made in favour of – **“Delhi Public School Kalyanpur”**

CONSENT FORM / RECEIPT

I _____ F/o, M/o, G/o _____ of class _____ would like to enroll my ward in the **“STEM Education Programme”** hosted by National Education Foundation-USA in his/her school i.e. DPS Kalyanpur, Kanpur. Thus, please consider this, as a consent for my ward to be a part of the programme. Also, an amount of **6,962 INR** is attached (cash/cheque) with the form.

Guardian /Father /Mother Name:-
Signature: -

Date:-

STEM Education - Course Brief

1. **Communication Skills** - A student will learn about
 - a. One to One communication
 - b. Many to One communication
 - c. Drafting proper documents
 - d. Understanding the protocol
 - e. Creative lucrative and apt presentation

2. **Soft Skills** - A student will learn about
 - a. Formal dress code
 - b. Body Language
 - c. Gestures and posture
 - d. Industry Etiquettes
 - e. Para language

3. **Critical thinking** - A student will about
 - a. Design thinking process
 - b. Crisis Management
 - c. Risk Management
 - d. Resources Management

4. **Technical Presentation** - A student will learn about
 - a. Project Management
 - b. Execution Summary
 - c. Biferaction and Coordination of a large task/team
 - d. Economics of Engineering
 - e. Confidentiality of sensitive projects like bank softwares and trademarks/presentation

5. **Problem Solving and Learning Strategies** - A student will learn about
 - a. Making split second decision
 - b. Stress Management
 - c. Building and executing strategies for projects and goals
 - d. Goal setting
 - e. Out of the box thinking skills

6. **Foundation of programming** - A student will learn
 - a. Basic induction about concepts of programming
 - b. Introduction to algorithm
 - c. Exposure to nascent programming language like C, C++
 - d. Applications of Programming

7. IT specialization basics on Cyber Security -

- a. Keeping the system bug/error free
- b. Making of Firewall/ Antivirus/ Firmware etc. for the operating websites
- c. Extra layer of security for banking/financial related web pages.
- d. Managing of cloud servers which contains humoungs amount of Data
- e. Managing the login credentials/ personal information of the users safe (Especially on Social Media Platforms)

8. Project Management -

- a. Assigning and bifurcation of team/task
- b. Keeping Track of the meeting and work progress
- c. Importance of confidential and sensitive information
- d. Financial of the projects
- e. Updating and improving the project goals.

9. Foundation of programming -

- a. What/ Why of programming
- b. High level language/Machine level language/ Low level Language
- c. Basics of C/C++
- d. Execution of Code
- e. Object Oriented Programming

10. Economics with Financial Literacy and Credit Recovery -

- a. Different tax policies for different loans
- b. NPA's and new policies
- c. Subsidies for MSMEs, Agriculture sector, Women entrepreneur etc
- d. Assets vs Credit vs Debit
- e. Capacity and Reasons to take loans

11. Algebra and Financial Analytics -

- a. RBI, WTO, World Bank, World Economic Forum
- b. Statistics and Data Entrepreneurship
- c. Modern Method like Data Analytics
- d. Use of Mathematics in different verticals like Operation, Supply Chain Management, Finance, Data Analytics etc

12. Data Analytics -

- a. What is Data?
- b. Is all data relevant
- c. Data Analytics and Big Data concepts
- d. Combination of Analytical Skills, Mathematical Skills, Business Skills, Communication Skills.

13. International Business -

- a. Economic Policies of a nation
- b. Political Policies of a nation
- c. Tax Havens and Shell Companies
- d. Forex (Currency Conversion Importance)
- e. Organization like G20, BRICS, World Economic Forum, World Bank

14. Entrepreneurship

- a. What Entrepreneurship
- b. Entrepreneur in you?
- c. Idea vs Execution
- d. Rise and Fall of companies
- e. Which Business