



Science Technology Engineering Maths

# STEM U VRTIĆU

Robotika za djecu od 4 do 7  
godina

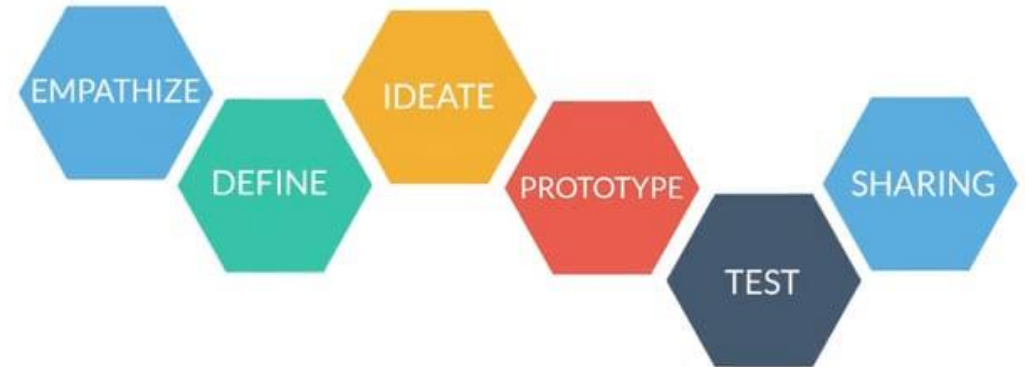
# ZAŠTO „STEM u vrtiću“?

- omogućiti djeci da kroz igru razviju **kritičko mišljenje**
- potaknuti ih na kreativno rješavanje problema i „**design thinking**“,
- razvijati **logičko-matematičke kompetencije** od najranije dobi
- i **osnove programiranja** kako bi umjesto konzumenata sadržaja postali mali **inovatori i kreatori**



21st century skills

## design thinking & creative problem solving



# ŠTO UČIMO NA RADIONICAMA?



Algorithms



Decomposition



Logic



Patterns



Programming



Tinkering



Simulation



Programming



Abstraction

# MODULI:

Program se odvija kroz STEM edukativne radionice iz:

- robotike
- programiranja
- design thinking projekti
- znanstveni eksperimenti

## What is **STEM**?

**S**

SCIENCE

*Observing,  
experimenting,  
making  
predictions,  
asking  
questions*



**T**

TECHNOLOGY

*Being inventive,  
using tools,  
making things  
work, identifying  
issues, using  
computers*



**E**

ENGINEERING

*Solving  
problems,  
using materials,  
designing  
and creating,  
building*



**M**

MATH

*Patterning,  
sequencing,  
exploring shapes,  
numbers,  
volume and  
size*



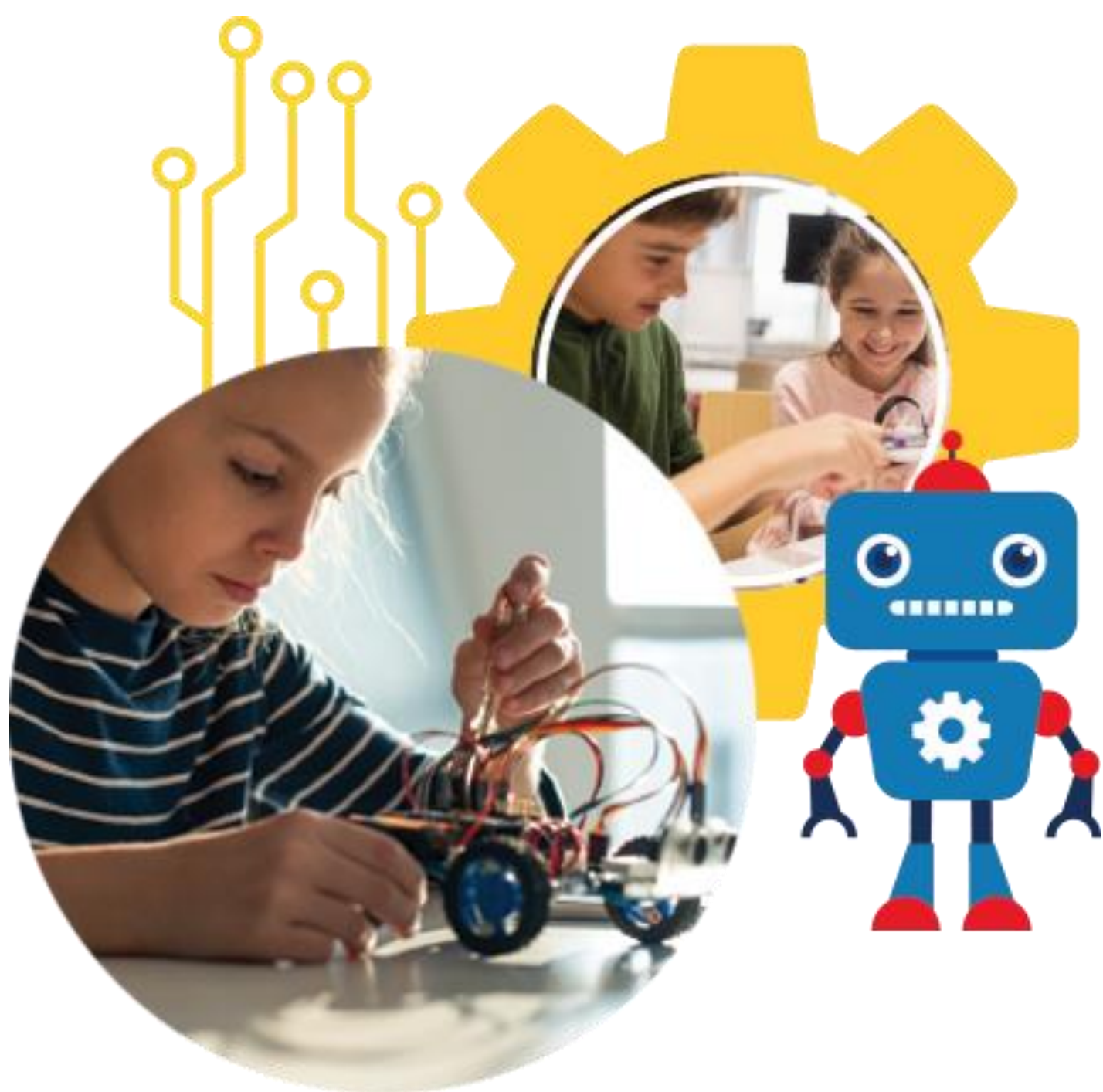
# KADA i GDJE?



1 x tjedno po  
1 školski sat



u vrtiću

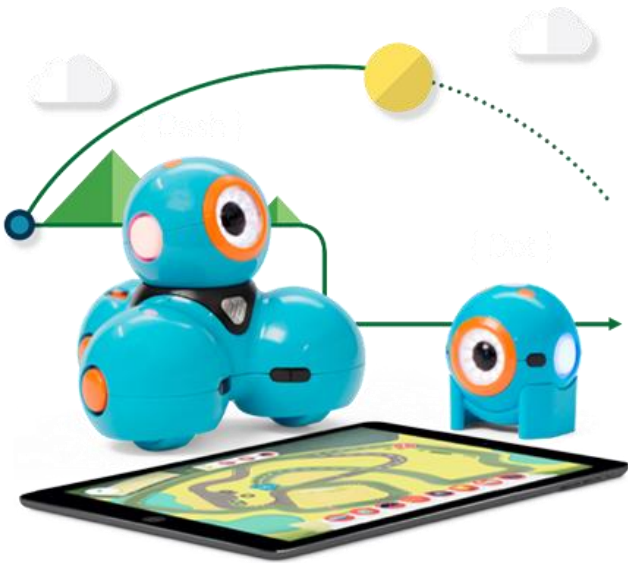




- **male grupe i „hands on” pristup**  
(6-8 djece po edukatoru)



# NAŠA EDUKATIVNA TEHNOLOGIJA I ROBOTI





# PROFESIONALNI STEM EDUKATORI





# Radionice u praksi:





zabava.  
edukacija.  
istraživanje.

POČETAK 30.9. - **UPISI U TIJEKU!**





Science Technology Engineering Maths

# STEM U VRTIĆU

**INSTITUT ZA STEM EDUKACIJU**

**I AFTERSCHOOL PROGRAME**

**Vrhovčev vijenac 56, 10000 Zagreb**

**[info@stemuvrticu.com](mailto:info@stemuvrticu.com) 097/600-2050**