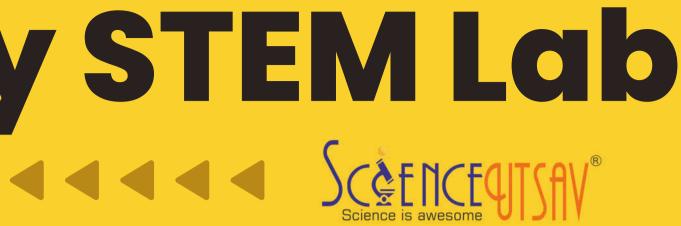
21st Century STEM Lab

Makerspace and Tinkering Lab to create new age leadership











350+ SCHOOLS IMPACTED

260,000+

MINDS ENRICHED

Why Modern Age Lab?

- STEM education teaches students how to solve problems by using their critical thinking and logical reasoning skills.
- STEM builds confidence in children by developing clarity in Science and Math concepts with Minds-on activities paired with Hands-on projects and experiments.
- STEM enables children to think smartly by allowing them to solve day to day engineering problems.



STEM promotes design thinking, creativity, research experimentation, prototyping and project building which lead to new ideas and innovations.

National Education Policy 2020

IHRD | Government of India Ministry of Human Resource Development

Core Essentials

Curriculum in all subjects to be reduced to its core essentials

Critical Thinking

Focus on critical thinking, inquiry, discovery, discussion and analysisbased teaching and learning methods for holistic education

Interactive Classes

Interactive teaching with reduced dependency on textbook learning; Questions from students will be promoted





Experiential Learning

Fun, creative, collaborative, and exploratory activities in classroom for experiential learning and deeper student learning





Science is Awesome







What it consists of?

ScienceUtsav aims at offering all our students a broad and balanced STEM curriculum that provides rewarding and stimulating activities to prepare them for the best social and cultural life.

1. Discovery Lab

2.MakerSpace

Infrastructure for **Curriculum based Physics**, Chemistry, and Biology **Experiments for research** behavior.

Design thinking & **Engineering Lab where** children Design and Build **Projects**.



3. Technology & Tinkering Lab

Coding, Robotics, Internet of Things and Automation Lab for community problem solving.

Government



Discovery Lab Modern Science Lab

















Research Based Experiments Role-plays and Anecdotes

Science Kts are provided to group of students to design appliances to Compliment theory given in the text book

Learning Outcome

Enhances students Scientific temper & Research attitude Story telling based pedagogy to enact scientific principles in which students act to learn the complex concepts <u>Learning Outcome</u> Concept clarity and enhancement of creative thinking

es Concept maps & Worksheets

Simulation, Quizzes & Assignments Research ideas and mind maps

<u>Learning Outcome</u> Memory Mapping and retention of the concept







Maker Scientist - Physics lab to know how world around us works with help of fun Hands-on Activities



Material Scientist - Chemistry Lab to build cognition with research based experimentation



Nature Scientist - Biology and Earth Science Lab to understand nature first hand

Science - Technology - Engineering - Maths







MakerSpace Curriculum Based STEM Take Home Kits



Curriculum connected project building to enhance design thinking



Introduction to Tools and Equipment to aid skill development



Knowledge transfer to develop community problem solving

Science - Technology - Engineering - Maths





"Do it yourself" projects and science toys.

Skill Development

Every student is involved in building working models, take-home projects, etc

Learning Outcome

Helps the students relate to the lessons being taught in class

Participants use the customized teaching aids to apply their learning in real life scenarios

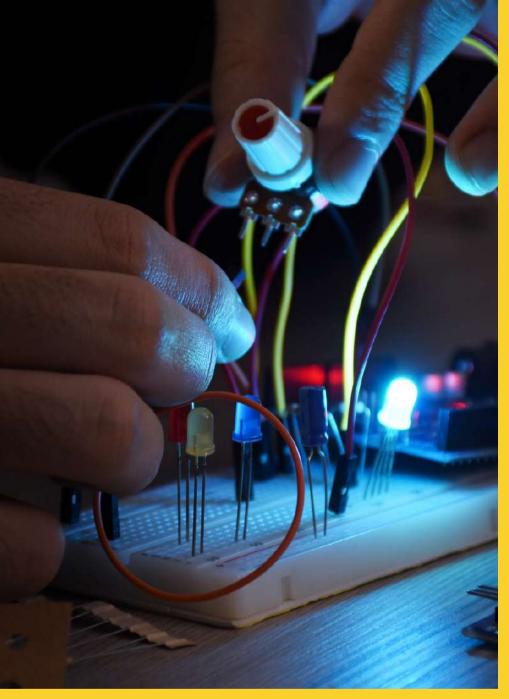
Learning Outcome

Motor skills development **Engineering approach Creative applications**

Creative platform and Prototyping approach

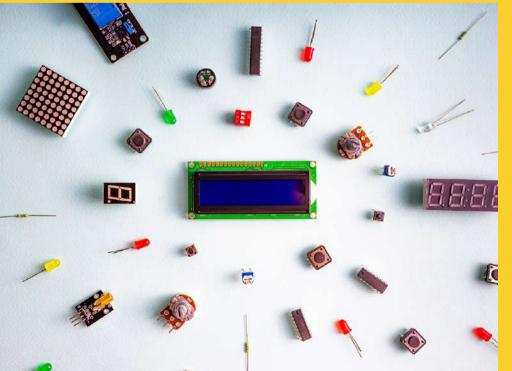
Helps children empathize with the community problems and gives them the confidence to solve them

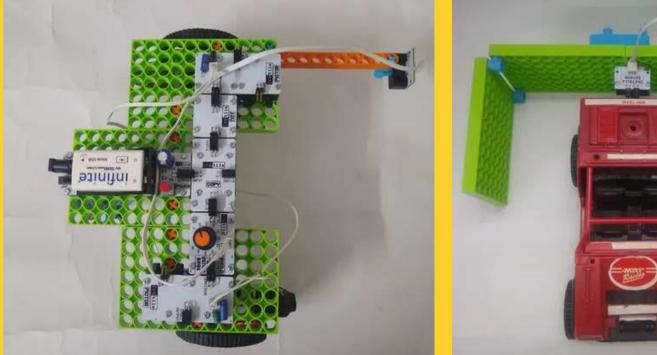
> Learning Outcome **Cognitive Ability Critical Thinking**

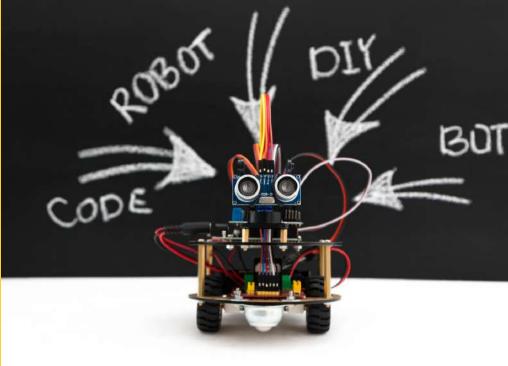


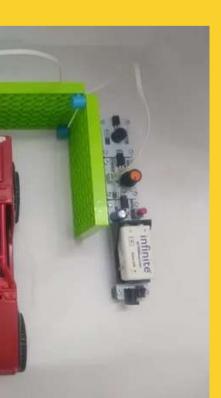


Technology Lab Robotics and Automation Lab Coding and Computer Lab











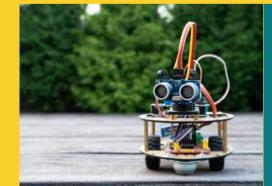
Technology Lab Robotics and Automation Lab



Programmable Electonic Kit with Electron Blocks, Output devices, Sensors and more



Kit with construction materials and tools required to build Technology driven projects



Knowledge transfer to develop interest in futuristic technologies

Science - Technology - Engineering - Maths



Coding and Computer Lab Block coding App Building Text based coding (Grade3 - Grade5) (Grade6 - Grade7) (Grade8 - Grade9)

Concepts taught **Basics of programming Animation & Games Sequences and logic**

<u>Learning Outcome</u>

Creative thinking Game logic Problem solving

<u>Concepts taught</u> UI/UX **Design concepts** App building hacks

Learning Outcome

Solving errors in code App design Databases

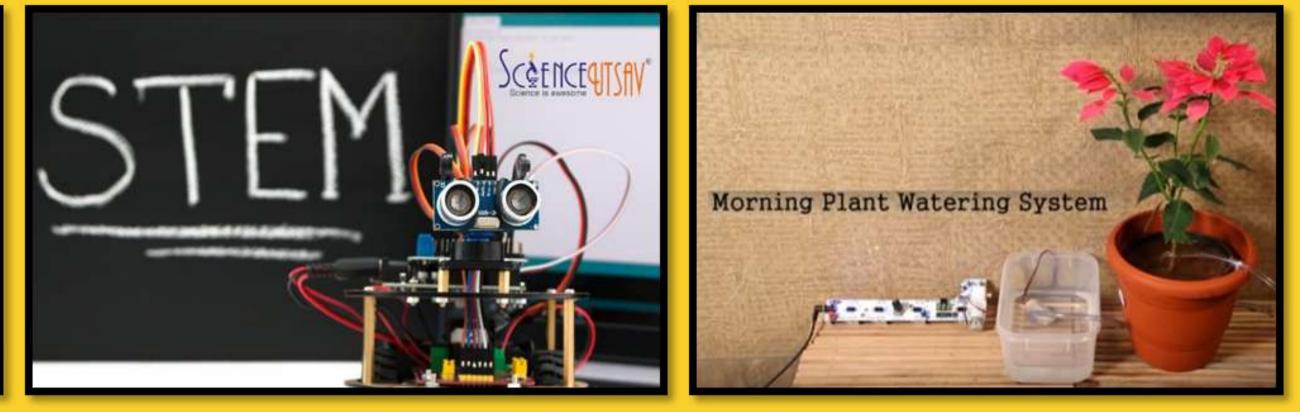
Learning Outcome Algorithms File handling Modules & Libraries

<u>Concepts taught</u> **Operators and Operands Complex logic Conditions and loops**

<title>My First Webpage</title> <meta name="viewport" content="width=device <link rel="stylesheet" type="text/css" hre







Electronic blocks (Grade3 - Grade5) **Robotics and Automation Lab** Arduino (Grade6 - Grade7)

<u>Concepts taught</u> **Basics of electronics Sensors & Timers Automation & Robotics**

<u>Learning Outcome</u>

Working of robots **Sensor applications** Concepts taught

Block coding & Programming Arduino UNO Board **Application of Robotics**

Learning Outcome

Interface between Hardware & software

Home automation (Grade8 - Grade9)

Concepts taught Wireless communication Neo world applications **Internet of Things**

Learning Outcome

Applications of Automation Interface IOT with Robotics



INDIA's first STEM platform with Learning Management System.

Click to open video - Robotics https://youtu.be/cohhXckiaSo

> **Click to open video - MakerSpace** https://youtu.be/r76fJ3Hg7zM

Click to open video - Training https://youtu.be/XLe6e-Z97VA

Knowledge Transfer through LMS

Click to open video - Coding https://youtu.be/z9IIDSEu VU

Media Presence

epaper.timesofindia.com/Default/Client.asp?Daily=TOIBG&showST=true&login=default&pub=TOI&Enter=true&Skin=TC

tricks and treats here

if you love playing with charts

call, thu is the place to be. We can get creative with the therei

unit, main therm at the right pro-

portion and turne ids with you

Schweetings or negative must White a witnesser at the Education of Dynamical Sci same Fraction' passed this query, proposit Adirit Das parised to parts. These were the good of our prives springing up to him si the nextwal and Attract and transfer When the factoral making its

inten in boths tone throws speciarity public or Seturner, for the started by its Disarting City sourdefined for research of ways. While the concentrary with, feasibles that they read structure and long questors under a antipetter, these dails's mercure as tablents were situriblent at the students of Security.

Like Needlich Atelactionistic your eld from Volyanilions total, when there are a farmer and the second s Instructurate of the volunies The electrowears ascence, for 1988 management the winner the otwerst and head the touch or tighting A sealin spread INCOME NOT THE METHOD ON LOCATION DATE.

TIMES VIEW SPLAT-TASTIC In Elizaburgh Attornational Spinst of the Mid said mathcody, used as Tar reptord as the bend way 15 mart



ready May I held you'. The year Now to program and amendate the parts, saws and exotors, that Hysely lead to a fur witty gritty of articl proc buttered the proce depisoral.

CHEMISTRY MANIA

Science Utsav gets under way

dna correspondent coma

Bangalore: If the world is going to be inherited by today's youngsters, then it's only fair they have a say in the solutions of today's problems as they are the ones who will have to face the consequences. Keeping that in mind, Science litsay has organised a free five-day summer camp, which started on Thursday. It hildren actively

tot only raising various envioblems, but also. solution. ext five days, stuin in on interacthat will tackle

from water to waste

le things they can everyday life to lifference to the #3 (5 ME

of & Garding, Propher 2

from Dentro Bons, an ormiledicited a coursed matches styles on 333 mile 20 miles and need forkness Postori in Corners ridge they free links, links They an endowing a stat problem and an old chairs that a maph \$5. to making its pellikable and e. ntei nanid deit.

rido thora the kido porformed anty Torayyer a listeration No a hale differing an itseday a non a paralala surgery I a 1 1 a peod job," and to year-old ya Caroo surders of is Maturel

one in Thursday City, the youth of Smallnderrahesme pd du verit af bettime lie a a partie of a month and a state of the state the orthogen subsciences frontly. onexaw shapes algorithmic ty in the SE Third we have TERMS NUMBER OF ADDRESS said Normada Dect a Chan a to School.

Paulate was alongs hit. "Aloncomplicated concepts \$3.3.4 candronami' mai? Luwmers, ce High Ichod.

NEED CATS INCOME REPORTED on provident practical knowluning and the state of a second state I the original the little little with he fas calculator non." a lines a sendor of Schlary's



COLDEST SHOW ON EARTH SC This is not an Add and Solmon monips. Oppriors have

SCIENCE CAMP FOR K Mycity4kids.com, in a with Kids Techie Club Forensic Organisation Science Utsav, is organ special science workshops for cl Oberoi Mall, Goregaon, on roboti

science and learning through ex-



ಮಕ್ಕಳ ದಿನಾಚರಣೆ ಪ್ರಯುಕ್ತ ಚಿತ್ರ ಬಿಡಿಸುವ ಸ್ಪರ್ಧೆ, ವಿಜ್ಞಾನ ಪದರ್ಶನ

ಬೆಂಗಳೂರು: 'ಸೈನ್ಸ್ ಉತ್ತಮ್' ತಂಡ ಮಕ್ಕಳ ದಿನಾಚರಣೆ ಪ್ರಯುಕ ಚಿತ ಕಲಾ ಸ್ಪರ್ಧೆ ಮತ್ತು ಉಚಿತ ವಿಜ್ಞಾನ ಪ್ರದರ್ಶನವನ್ನು ಭಾನುವಾರ ಬಸವ ಶಗಾಡಿಯ ಕೃಷ್ಣರಾವ್ ಪಾರ್ಕ್ ನಲ್ಲಿ ಅಯೋಜಿಸಿತ್ತು.

ಚಿತ್ರ ಸ್ಪರ್ಧೆಯನ್ನು 'ಭೂಮಿ, ಪ್ರಕೃತಿ ಮತ್ತು ಮಾನವ' ಹಾಗೂ 'ಭಾರ Aron Kon Aong Dags' Dou 2 Dannag Darakan ಯತು. ಸ್ಪರ್ಧೆಯಲ್ಲಿ ನಗರದ 200ಕ್ಕೂ ಅಧಿಕ ಮಕ್ಕಳು ಭಾಗವಹಿಸಿದ್ದರು. ಹತೆಗೆ, ಮಕ್ಕಳಿಗೆ ದೈನಂದಿನ ಜೀವನದಲ್ಲಿ ಎಚ್ಚಾನದ ಪಾಹತ ತಿಳಿಸುವ ಸಬುವಾಗಿ ಎಶೇಹ ಎಚ್ಚಾನ ಪ್ರದರ್ಶನವನ್ನು ನೆಡೆಸಲಾಯಿತು. ಇಬ್ಬರು ಎಕಲಚೇತನರು ಸೇರಿದಂತೆ 2 ಎಭಾಗದಲ್ಲಿ ಒಟ್ಟು 10 ಎಚೇತ ಮಕ್ಕಳಿಗೆ ummin tea daraptetentian manremoto 'for ಉತ್ತಪ್'ನ ಕಪಾಂಕ್, ಸುದ್ದೀತ್, ಹರ್ಷ ಮತ್ತಿತಂದು ಹಾಜರಿದ್ದರು.



Gate Barbara ಲಾನುವಾರ undatalited. 14 DOX DE z drotal mesteu

हसत खेळत विज्ञानाचे शिक्षण 🔳 'सायन्स श्रो'ला विवार्थ्यांचा भरपूर प्रतिसाद

Terroritory and dive The fider advanta merane "service all'into all'opanetal laught another graph conversed

SARRON, UNIT MEN, Throught student ware would due staffef@iff.ook failts sets fagsadut the second addaud over appear unlike

bellis sequent applies append and want many many poper suspensions suspension forment matter policy initial delite, elder, cornelts arrait and box pets a many render postal trut peters some lightents without with and not resident units we wanted. Increability, etails fitting server thest

also be given tips ES land.



Kids revel in hands-on Science Making S fun for cl Page whether

> ofine mbokar of Databasy dalam feetar 20.00



peridoan advada the liver wir had and RE-MIROR CROCKER chay now races-oppositions then people have a tight chores are Scherchopera i THERE BERGESTER ACTIVITY fada konstructora Andia-hi

చిత్రాలను గీస్తున్న చిన్నారులు

Metro

ස්ට සංර් ම

బింగళూరు, జాన్ 16 (మ్యాస్ట్రేటుడే) పర్యాపరణ పరిరక్షణ ත්රීමට ධනාණුණු පාරාම ජවාවේරක්ත ශ්රීණ බවාණ సంయుకంగా చేపటిన సైన్స్ ఉత్సవం ఆదివారంతో ముగి సింది అందులో భాగంగా మొక్కలు హాటటం వక్ర్రత్వ ද්රේචා බජුද්ගීලපාරු, බසර ඒකා බසැදරුපත් සිනුබ්බ



eek to awaken curiosity in every child er alia to recycle stuff, segregate garbage and clean the environment

reusing waste materials. An kids will get to learn much old shirt would become a bag through fun activities. once it was old. But today, we "When I ask a kid what an bad. We will also teach them Green Camp is all set to be don't do that. We prefer to incandescent bulb contains, civic sense and cleaner living gin from May 23 at Jayanagar throw them away. To bring this there is a blank stare. So we practically,

Everyday, a topic will be taken up and we will teach children about it practically

> - Shashank Karnam, who started Science Litsay

manner is another. Everyday, can separate them and main a topic will be taken up and use of those items which car we will teach children about it be re-used," Namratha said. practically," Shashank said.

SU volunteer said: "When we cally. When they put their say 10 decibel of sound, chil- hands into the projects, it dren cannot understand it. exciting for them. We want t Instead, when we show them use this to encourage them practically, they know that We also have competitions for derstond simple methods of to cleaning the environment, this sound is loud or not. So, the kids on making models we will teach them why out of trash," Namrath, honking without a reason is added.

"Children Jearn bette Namratha Rajashekhar, a when they are shown practi

near Srusthi Hospital near

www.scienceutsav.com

Thank you Science is awesome

