

# *The Study*



## **1 Vision**

Studyites shall be a

“Passionate learners  
Global citizens  
Future leaders”

## **2 Mission**

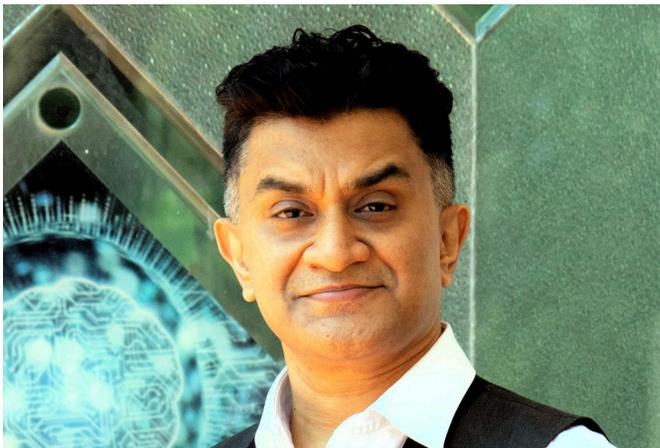
Our mission is to strive to excel by providing holistic education in a conducive environment. The practices ignite a passion for creativity, ethical behaviour and social responsibility, thus leading to lifelong learners and future leaders with a global outlook ready to face the challenges of the future.



# 1 MANAGEMENT

The Visionary Our Chairman Dr. K.M Cheriaan the world class Cardiac Thoracic Surgeon's aspiration to create a world class educational institution has given rise to this Landmark "The Study L'école internationale", on the coast of Puducherry. It was started with the sole purpose of imparting education for children from different strata of society irrespective of caste, colour, creed or religion. Its emphasis has always been on absolute discipline among the children with humanitarianism to go parallel with emerging modern technology and society.

He is supported by the Vice-Chairman Dr. Sanjay Cheriaan Cardiac Surgeon, and the Correspondent Mrs. Sandhya Cheriaan.



# 2 ADVISORY BOARD

1. Rema Daniel—Chief Academic Advisor at The Study, Principal (Rtd) & former President of YWCA India.
2. Prof. C.V Ramakrishnan—Scientist in Bio-Chemistry, University of Wisconsin-Madison. Former HOD of Bio-chemistry at the Maharaja Sayajirao University of Baroda.
3. Dr. Armoogum Parsuramen—Former Director UNESCO & Former Minister for Edu.at Mauritius.
4. Dr. Einor Seensnaes—Former Minister of Education and Finance at Norway. President OSLO Peace Foundation. President of IB, Geneva.



**Akira Miyawaki**  
 Akira Miyawaki is a global originator, an environmental advocate, and a restorer of ecological balance. "Miyawaki Method" has had a profound impact on the world.

**GOOGLE LINK**  
<http://www.topmastersinhealthcare.com/20-most-innovative-pediatric-surgeons-alive-today/>

**20 Most Innovative Surgeons Alive Today**

Dr. K. M. Cheriaan is a cardiac surgeon in India and the United States. He has worked at Christian Medical College Hospital in Yellore, the University of Oregon, and the Yangzhou University in China. He is currently the chairman and CEO of the International Centre for Cardio Thoracic and Vascular Diseases and the Dr. K. M. Cheriaan Heart Foundation at the Pushpagiri Institute of Medical Sciences and Research Centre in India. From 1990 to 1993, he was the honorary surgeon to India's president. He has performed over 47,072 surgeries, including India's first heart transplant after brain death, the first bilateral lung transplant, India's first pediatric heart transplant and the nation's first heart and lung double transplant. As a humanitarian gesture, Dr. Cheriaan operated on 20 Iraqi children with complex heart defects. He is the first and only member from India of the American Association for Thoracic Surgery. He is also a Fellow of the Royal Society of Medicine in London, England.

### 3 CURRICULUM

Education with a holistic perspective is concerned with the development of every person’s intellectual, emotional, social, physical, artistic, creative and spiritual potentials. It seeks to engage students in the teaching/learning process and encourages personal and collective responsibility.

#### 3.1 Kinder Garten

##### 3.1.1 Learning methodology

At ‘The Study’, Kindergarten plays a vital role in formulating the early childhood development by nurturing the child to have a smooth transition from JKG to SKG and establishing a strong foundation to enhance learning skills.

Teachers implement several methodologies of teaching to make the students learn in a joyful way. Children in Kindergarten learn by play-way method, experiential, multi-level, activity-based, inquiry-based methodologies to acquire the abstract concepts, numerals, counting, colours, shapes, alphabet and languages which enhance critical thinking and ensure holistic development of the child.

##### 3.1.2 Assesment plan

Evaluation of the kindergarten classes is done on day-to-day basis, depending upon the concept and the syllabus taught. The overall performance of the child is assessed by the end of all the 2 terms.

##### 3.1.3 Fostering curiosity and imagination

Curriculum involves a multi-faceted approach of Fine-motor, Gross-motor, Sand and Water play, Personal, Social & Emotional development, Literacy skills, Numeracy skills, General Awareness, Language & Communication, Problem solving skills, Critical thinking, Storytelling, Picture reading, Music and movement.

In addition we also have time allotted for circle time & assembly.

**Circle time:** It is an important time for students to interact with one another and develop positive relationships with teachers.

**Assembly:** It will be weekly twice for the tiny tots. Kids assemble for the special assembly presented by different classes of kindergarten.

Kindergarten follows theme-based learning or the practice of integrating curriculum areas around a topic. Kids learn a theme every month connected to the subjects.



#### 3.2 Primary

The primary curriculum is designed to nurture the child in all dimensions of his or her life- spiritual, moral, cognitive, emotional, imaginative, aesthetic, social and physical.





The primary curriculum is presented in six areas, some of which are further subdivided into subjects. Art Education, Mathematics, Social environmental, Scientific education, Physical education and Languages (English, Hindi and Tamil). LSRW skills are emphasised.

### 3.3 Middle school—Grade VI–VIII

In grade 6–8, students deepen their knowledge and skills in 4 core subjects: History and Geography, Language Arts, Math and Science, thereby helping the students develop independent learning Strategies and study skills, deepening their reading comprehension and writing skills. To learn advanced math concept in preparation for higher level math courses

### 3.4 Secondary School Curriculum

The Study School follows the CBSE Curriculum. CBSE Secondary Curriculum provides students a broad and balanced understanding of subjects including languages, Mathematics, Science, and Social Science to enable students to communicate effectively, analyze information, make informed decisions, construct their worldview in alignment with constitutional values and move ahead in the direction of becoming productive citizens.

#### 3.4.1 Subjects offered at Secondary school level

1. English
2. Science
3. Mathematics—Standard & Basic
4. Social Studies

5. II Language—Hindi, Tamil and French
6. Health and physical Education
7. Work Education.
8. Art Education

### 3.5 Senior Secondary School Curriculum

The Study School follows the CBSE Curriculum. For the purpose of fostering competences in learners, the curriculum encompasses even major learning areas, which are: Languages, Humanities, Mathematics, Sciences, Skill Subjects, General Studies and Health and Physical Education.

#### Subjects offered at Senior Secondary school level

##### 3.5.1 Science

- |                     |                                  |
|---------------------|----------------------------------|
| 1. English          | 8. Artificial Intelligence       |
| 2. Physics          | 9. Informatics Practices         |
| 3. Chemistry        | 10. Entrepreneurship             |
| 4. Mathematics      | 11. Language—Tamil/Hindi/French* |
| 5. Biology          |                                  |
| 6. Computer Science |                                  |
| 7. Psychology       |                                  |

##### 3.5.2 Commerce

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| 1. English                          | 6. Informatics Practices        |
| 2. Accountancy                      | 7. Entrepreneurship             |
| 3. Business Studies                 | 8. Psychology                   |
| 4. Economics                        | 9. Language—Tamil/Hindi/French* |
| 5. Mathematics/Applied Mathematics* |                                 |

##### 3.5.3 Humanities

- |                      |                                 |
|----------------------|---------------------------------|
| 1. English           | 6. Informatics Practices        |
| 2. Sociology         | 7. Language—Tamil/Hindi/French* |
| 3. Political Science |                                 |
| 4. Psychology        |                                 |
| 5. Economics         |                                 |

## 4 INTERNSHIP

The study offers internship programs for students in their respective fields, thereby giving opportunity for career exploration and development not only to learn new skills but also to show case their innovative ideas and build their future career.

## 5 CAREER COUNSELLING

There are a lot of factors that influence career development. The study takes pride in helping the children to understand the world of work and to make a career and take life decisions by offering Career counseling seminars by experts.

## 6 STUDENT EXCHANGE PROGRAM

To enhance international learning, acceptance and understanding of different cultures and community perspectives, language acquisition, integration into another family, maturity and social dignity, we, the study, has introduced the student exchange program.

## 7 ACHIEVEMENTS

A sound foundation in Maths and Logic enables a student to develop confidence. To prove this logic true Siddharth Laxmisha participated in the computing challenge held by Association of Computer Machinery (ACM), India, and secured top rank 18.

Discovery channel in collaboration with Bygus conducted a quiz competition and Anirudh Sriram of class IX has been selected as the only candidate in the whole of Puducherry and Tamilnadu for the final round in Mumbai.

A 10-year-old published author who dreams of becoming a paleontologist feels strongly about animal welfare, and is by far one of the chirpiest young girls, Vipanchi Nayak, whose debut book ‘The Mysterious Virus’ makes her one of the youngest authors today, belongs to The Study family.

## 8 FUTURE READY

The Study, while firmly rooted in the present, has set it's sights on the future. The careers of tomorrow start in the labs of today. The Study has fully equipped labs to train students in the emerging fields of study such as Robotics, Drone Technology, 3D Printing, Stem Cell, Nano Technologies and also Financial literacy programme, in the field of commerce and humanities. This ensures that Studyites are qualified to lead the workforce of the 21st century.

### 8.1 Robotics

Robotics is a sub-domain of engineering and science that includes mechanical engineering, electrical engineering, computer science, and others. Robotics deals with the design, construction, operation, and use of robots and computer systems for their control, sensory feedback, and information processing. A robot is a unit that implements this interaction with the physical world based on sensors, actuators, and information processing.

Word robot was coined by a Czech novelist Karel Capek in a 1920 play titled Rassum's Universal Robots (RUR). Robot in Czech is a word for worker or servant

A robot is a reprogrammable, multifunctional manipulator designed to move material, parts, tools or specialized devices through variable programmed motions for the performance of a variety of tasks

#### 8.1.1 Types of robots

1. Manipulator
2. Legged Robot
3. Autonomous Underwater Vehicle
4. Wheeled Robot
5. Unmanned Aerial Vehicle

#### 8.1.2 Robot uses

1. Jobs that are dangerous for humans
2. Repetitive jobs that are boring, stressful, or labor-intensive for humans
3. Menial tasks that human don't want to do

### 8.1.3 Typical knowledge base for the design and operation of robotics systems

1. Dynamic system modeling and analysis
2. Feedback control
3. Sensors and signal conditioning
4. Actuators (muscles) and power electronics
5. Hardware/computer interfacing
6. Computer programming

## 8.2 Drone technology

The term ‘drone’ usually refers to any unpiloted aircraft. Sometimes referred to as ‘Unmanned Aerial Vehicles’ (UAVs), these crafts can carry out an impressive range of tasks, ranging from military operations to package delivery. Drones can be as large as an aircraft or as small as the palm of your hand. A drone is an unmanned aircraft.

Outer space. Hurricane disaster zones. Antarctica. Your front door. One of these destinations is a little less extreme than the others, but that’s the point for drones. Drones, sometimes referred to as ‘Unmanned Aerial Vehicles’ (UAVs) are meant to carry out tasks that range from the mundane to the ultra-dangerous. These robot-like vehicles can be found assisting the rescue of avalanche victims in the Swiss Alps, at your front doorstep dropping off your groceries and almost everywhere in between. Originally developed for the military and aerospace industries, drones have found their way into the mainstream because of the enhanced levels of safety and efficiency they bring. These robotic UAVs operate without a pilot on board and with different levels of autonomy. A drone’s autonomy level can range from remotely piloted (a human controls its movements) to advanced autonomy, which means that it relies on a system of sensors and LIDAR detectors to calculate its movement.

## 8.3 Stem cell

Stem cells are the body’s raw materials—cells from which all other cells with specialized functions are generated. These ranges from muscle cells to brain cells. In some cases, they can also fix damaged tissues. Researchers believe that stem cell-based therapies may one day be used to treat serious illnesses such as paralysis and Alzheimer disease.

The only stem cells now used to treat disease are hematopoietic stem cells. These are the blood cell-forming adult stem cells found in bone marrow. Every type of blood cell in the bone marrow starts as a stem cell. Stem cells are immature cells that are able to make other blood cells that mature and function as needed.

Some stem cells that show great potential for treating human disease come from early embryos. The cells can be taken from five- or six-day-old human embryos and then cultured in laboratory glassware.

## 8.4 Financial literacy programme

Want to become Money Smart!! Practicing basics of Spending, Sharing, Investing, and saving is the best way to gain solid financial skills and habits.

These are essential elements of personal development that can and should be learned and reinforced from Grade 3 till throughout life as financial needs grow.

The program is popular for its ability to connect with students and inspire participants of all ages and socioeconomic backgrounds to take positive financial action.

## 8.5 Good manufacturing practice

Good manufacturing practice (GMP) is a concept that ensures medical products are consistently produced and controlled according to quality standards.

It is designed to minimize the risks to the patient involved in any pharmaceutical production.

The 5 P’s of GMP

1. People
2. Premises
3. Processes
4. Products
5. Procedures

Schedule M of Drug and Cosmetic Act 1940 outlines the GMP that should be followed by pharmaceutical manufacturing units in India.

## 9 GREEN CAMPUS

Our school is pollution free and boasts of a clean and green environment. Dr. Cherian incorporated the cosmic energy in to the school garden by setting up—Zodiac, Navarathna, Miyawaki and Raasi Garden. The gardens were inaugurated by Our Lt. Governor Dr. Kiran Bedi and Our Chief Minister Mr. Narayanaswami through tree planting ceremony on 14<sup>th</sup> December 2017. Our Flora and Fauna club segregated the plants and assigned them with their common names and scientific names on name boards. 1345 new saplings of exotic species were planted in our school. This afforestation initiative began from January 2018 and will continue

to be the Oxygen factory in the years to come.



# 10 CO-CURRICULARS

Co-curricular activities, encourages students to explore their talents and interests. They are intended to bring social and intellectual skills, moral, cultural and ethical values, for personality development, and character advancement in students. It includes athletics, sports, social occasions, library activities, science lab activity, class (study hall) activities, creative arts, meditation, and so on. Students, in course of time, excel in their chosen activities, which contributes to their holistic development. Pathfinder camp, triathlon and field trips train the students in endurance and adaptability.



# 11 UNIQUE—THE STUDY

**Protopterus—African Lungfish**—Fish which breathe air through lungs and can crawl.



Neanderthal Man



Skeleton of Lucy



Fish heart Sheep Heart Snake Heart



Seal's heart Buffalo's Heart Bull's Heart



Lucy



Elephant's Heart



African Anaconda



Petrified Wood Fossil



Pyramid of The Study Living at the top of the world

**What was "Lucy"? — Fast facts on an early Human Ancestor — Australopithecus afarensis** is one of the oldest known hominid species. Thought to have been primarily a vegetarian, possibly a scavenger. **Geologic Age:** About 3.9 million to 3 million years. **Males:** 4 feet 11 inches, 99 pounds. **Females:** 3 feet 5 inches tall, 64 pounds. **Discovery site:** Lucy was discovered near Hadar, Ethiopia. The skeleton is housed at the National Museum of Ethiopia in Addis Ababa.

A unique collection of hearts of various animals including elephants heart gives a crown to The Study. 20 million year petrified Wood fossil belongs to Gymnosperms and Angiosperms, Anaconda skin, model of Lucy its skeleton, Neanderthal man and several others adds to the uniqueness of the labs.

**Pyramidology in The Study** Pyramidology is a very interesting study that began in the 19th century. Pyramidologists discovered many scientific values like the mean density of the earth, the weight of the earth, mean temperature of the earth, the values of the solar, sidereal, and anomalistic years, and many others. Dr. Alvarez was awarded a Nobel Prize in physics, and developed the use of cosmic ray probes to find hidden chambers in the pyramids. The Study emphasis three prominent Indian scientists and their contribution to the field of science in its pyramid to uphold the knowledge transfer.

## 12 CLUBS

Clubs further the impact of co-curriculars by providing a common platform for like-minded individuals to take up fields of study and work on causes that suit their temperament and interests.

### THE STUDY—PROSPECTUS

Clubs are student-driven with guidance of teacher coordinators. Some of the clubs are as follows

1. Marine club
2. Aviary club
3. Mathematics club
4. Flora and Fauna club
5. Consumer awareness club
6. Science club etc.,

## 13 CELEBRATIONS

Celebration brings the students closer to each other's traditions & cultural beliefs & develops respect & understanding for each other's customs & traditions. Along with enthusiasm and fun for the activities, qualities like sensitivity, creativity and togetherness are also inculcated in the students keeping its values intact.

Every year one fest is organized based on academic subjects. Through seminars, innovations, exhibitions, debates, quizzes and other competitions, the students delve in-depth into the specific subject, within and beyond the syllabus. Rainbow Day, Grandparents Day, National and Religious festivals, Annual Day, Sports Day and Cultural Fest showcase the flair and finesse of the student body.

## 14 INFRASTRUCTURE



The study provides good infrastructure and excellent facilities to students in primary, middle and senior blocks. All the classrooms are spacious and well ventilated and equipped with comfortable seating arrangement. The classrooms are located in three different blocks. The Annam block houses the classrooms for kindergarten and primary level students. Each classroom is named after a flower. The Mamman block nestles the middle school. The class rooms here are named with a virtue that is expected from a student to emulate. The Mariam block holds the knowledge cluster with all the Laboratories and classes for the senior secondary level.

The school playground boasts of an aesthetically set lay area for kids to spend their leisure time. The primary and senior blocks have well stocked library with appropriate books and journals made available for the students. The study swimming pools are designed for use by children. We have 2ft Shallow

pool for the toddlers and a 5 feet deep pool with diving boards. The filtration and water treatment system for a school pool is highly accurate. The school takes care of the students who Fall sick during school hours. A 3 bedded infirmary with first aid kit and other basic medicines are available.

The school has a fleet of 33 buses and vans to commute the students from a radius of about 25 km in and around Puducherry from the vicinity of the school.

Well planned spacious classrooms housing digital interactive smart boards, packed with audio-visual module to enhance classroom learning. Audiovisual room, with a seating capacity of 160, air conditioned for hosting various events.

Counselling room to attend to individual emotional needs of the child. Activity rooms—Indoor and Outdoor play areas for beyond classroom activities.

## 15 SCIENCE LABORATORIES

Physics lab, Chemistry lab, Biology lab, Atal tinkering lab and Computer lab for emerging scientists, Mathematics laboratory for extensive and practical learning of mathematics. Junior science composite lab to Ignite scientific thinking.



## 16 ATAL TINKERING LABS

It is one of the schools recognized for Atal Tinkering lab by Government of India. Hands on training in the field of GMP, Stem cells are also provided for students who are interested in medicine, basic research and other fields. To give importance for our environment and prevention of global warming, Study has the credit of starting the first Miyawaki forest in South India.

## 17 LIBRARY

Well equipped libraries with junior and senior section attached with department of information science.



## 18 OTHER FACILITIES

1. Optimal play facilities and fields to accommodate cricket net practices; basket-ball court; tennis court; archery field, carom & chess and table tennis in indoor games hall.
2. Music rooms to teach keyboards, guitar, violin and drums.
3. Experts to teach performing arts, arts and craft and both classical and western dances.
4. Parents' corner and meeting rooms.
5. Staff rooms in every floor in all the three blocks.
6. Knowledge centre
7. Garden with vermicompost pits
8. Aviary, rabbit hutch, aquarium add to the learning environment of the school .
9. The Zodiac Garden, Nakshatra Garden, Sensory Garden and Herbal Garden add to a clean and green environment of the school.

# The Study L'école Internationale

(Promoted by the Dr. K.M. Cherian Educational Society)

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