



# Thiagarajar College, Madurai-9

(Re-Accredited with A++ Grade by NAAC)  
(Ranked 20<sup>th</sup> in NIRF 2025)



## National Centre of Excellence on Statistical and Mathematical Modelling on Bioresource Management (NCoE-MHRD)

Organizes

### ONE-WEEK SUMMER INTERNSHIP PROGRAMME 2026

*Igniting Young Minds for the Future  
of Science, Technology & Data Innovation*

➤➤➤ Explore      ➤➤➤ Innovate  
➤➤➤ Learn        ➤➤➤ Transform

Empowering young learners today to become scientists,  
engineers, innovators, and leaders of tomorrow.



#### Programme Overview

This intensive One-Week Summer Internship is designed to provide hands on exposure, scientific curiosity, and future-ready skills for young learners and campus learners. The programme integrates Basic Sciences, Computer Science with Artificial Intelligence and Biological Sciences with practical learning experiences in a vibrant academic environment.

#### Internship Objectives

To introduce students to emerging cutting edge technologies in the field of basic sciences, computer science and biological sciences. To develop computational thinking and problem-solving skills. To provide hands on laboratory experience. To build confidence for the brighter young minds by using modern digital tools and technologies

#### Key Highlights of the Internship

Hands-on training in Physics, Chemistry, Mathematics, Computer Science with Artificial Intelligence and biological science and its Basics. Interactive sessions on IoT, and Smart Technologies. Exposure to Biological Data Analysis and Scientific Modelling. Mini Projects and Team-Based Activities

#### Who Can Apply?

Students interested in Science, Technology, Innovation and future careers in research

- ✓ School Students
- ✓ UG/PG Students
- ✓ Research Scholars
- ✓ Teachers/Faculty



#### Expected Outcomes

- Gain practical exposure to modern technologies
- Develop basic programming and analytical skills
- Improve confidence in scientific thinking
- Understand real-world applications of science and data

#### Duration

One Week Summer Internship  
(11<sup>th</sup> to 16<sup>th</sup> May 2026)

**Mode** - Hands-on, Activity-Based Learning  
**Venue** - Thiagarajar College, Theppakulam,  
Madurai - 625 009.

Further Details Kindly contact

**Coordinators : Dr.B. Samuel Raj - 97517 69030 & Dr.N. Sudhan - 95781 49052**

**Dr.P. Prakash**  
Dean Research

**Dr.D. Pandiaraja**  
Principal

**Mr.K. Hari Thiagarajan**  
Chief Patron

## Physics

(only school students)

### Smart Power Management at Home using IoT

- ✓ Understand energy usage at Home
- ✓ Build Basic IoT system
- ✓ Monitor and Control Appliances
- ✓ Develop Problem Solving and Innovative Skills

Course In-Charge : Dr.K. Ganga Devi & Dr.D. Arthi



## Mathematics

(only school students)

### Math Fusion Hub for Young Innovators

- ✓ Shortcut (Vedic) Maths
- ✓ Real-time Applications of Maths
- ✓ Technology in Maths
- ✓ Brainstorm Activities

Course In-Charge : Dr.S. Vijaya & Dr.P. Krishnaveni



## Microbiology

(For All)

### Microbiological Techniques for Safe and Secure Livelihood

- ✓ Safety of milk, meat, fruits, and street foods
- ✓ Risk of infections and food poisoning
- ✓ Biochemical tests, staining, and microscopic techniques
- ✓ Safety of drinking water at home
- ✓ Safe cooking, cleaning, and personal hygiene

Course In-Charge : Dr. K. Vijay & Dr.R. Kalpana



## Computer Science

(only school students)

### Modern AI Assisted Tools for Smart Learning

- ✓ Hands on Experience on latest AI tools
- ✓ Generative AI and Multi Modal AI
- ✓ Collaborative Learning sessions

Course In-Charge : Dr.N. Gnanasankaran



## Biotechnology

(For UG/PG Students & Faculty)

### Smart Drug Discovery: Structural Insights with Hands on Preclinical Training

- ✓ Hands on Preclinical training.
- ✓ Investigational New Drug (IND) Application Process insights.
- ✓ Chromatographic profiling.
- ✓ Bioactivity and Pharmacology of a drug.
- ✓ Virtual drug screening strategies.

Course In-Charge : Dr. B. Samuel Raj & Dr. E. Sangeetha



# COURSE DETAILS

## Chemistry

(For All)

### Hands on Training Mastery- Operating Advanced Instruments”

- ✓ Hands on experience with advanced analytical instruments
- ✓ Develop expertise in data analysis, interpretation & scientific problem-solving
- ✓ Build strong research with skills aligned to academic and industrial R&D

Course In-Charge : Dr. G. Mageswari

### Sensing the Invisible using Electrochemical Techniques”

- ✓ Electrochemical workstation operation and techniques
- ✓ Fundamentals of electrochemistry, sensor principles, and electrode modification
- ✓ Hands on experience, data interpretation and analytical validation

Course In-Charge : Dr. B. Shobana

### Lab in Consumer Products (only school students)

- ✓ Skill-based training in consumer product preparation
- ✓ Basics of formulation and ingredients
- ✓ Hands on lab skills & safety

Course In-Charge : Dr.N. Sudhan & Dr.C. Bhuvanewari



## Registration and Fees Details

Registration Link

<https://forms.gle/F7mSZkjb9qQXV9S97>

### Fees Details (Inclusive of GST)

School students	- Rs. 1000
UG/PG Students	- Rs. 1500
Research Scholars	- Rs. 2000
Teachers/ Faculty	- Rs. 3000



### Account Details

Account Name: TC SELF FINANCE COURSES  
Account Number: 1159172000006303  
IFSC Code: KVBL0001159  
Bank Name: Karur Vysya Bank  
Branch: Madurai Main



Food and accommodation  
will not be provided