

NANDHA ENGINEERING COLLEGE, AUTONOMOUS- ERODE-52

FRESHMEN ENGINEERING DEPARTMENT- MATHEMATICS

PROGRAMME: FDP- FACULTY DEVELOPMENT PROGRAMME

DATES: 18.06.2026, 19.06.2026 & 20.06.2025



EVENT REPORT

SESSION DETAILS:

DATE	TIME	TOPIC	RESOURCE PERSON
18.06.2026	10.00 am – 4.30 pm	AptiGenius : Faculty Empowerment on Quantitative Excellence	Mr. R.Sakthikumar Assistant Professor Cum Aptitude Trainer Sri Eshwar College of Technology
19.06.2026	2.00 pm- 4.30 pm		Mr.R.Shankar Assistant Professor Cum Aptitude Nandha Engineering College
20.06.2026	10.00 am – 4.30 pm		Mr. R.Sakthikumar Assistant Professor Cum Aptitude Trainer Sri Eshwar College of Technology

PARTICIPANTS DETAILS:

Faculty team of Mathematics Department (NEC),(NCT) & (NPC)	66
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Session Outcome: Faculty members will able to

- Develop enhanced quantitative aptitude and analytical reasoning skills.
- Learn effective shortcut techniques for solving aptitude problems quickly and accurately.
- Improve their ability to train and mentor students for placement drives, competitive examinations, and higher studies.

Agenda:

Welcome Address	Dr.G.S.Murugapandian, HoD/Mathematics
Chief Guest Introduction	Ms.P. Devi,AP/ Mathematics
Key Note Address	R.Thiruneelakkandan, HoD/FED
Session by	Mr. R.Sakthikumar, Assistant Professor Cum Aptitude Trainer
Vote of Thanks	Ms.M.Priyadharsini, AP/Mathematics

About FDP:

The Department of Mathematics, Nandha Engineering College (Autonomous), organized a three-day Faculty Development Programme (FDP) titled “**AptiGenius: Faculty Empowerment on Quantitative Excellence**” from **18th to 20th June 2026** at **CC-14 Lab, Block-5**. The programme aimed to strengthen the quantitative aptitude, logical reasoning, and problem-solving skills of faculty members, enabling them to effectively mentor students for competitive examinations and placement opportunities.

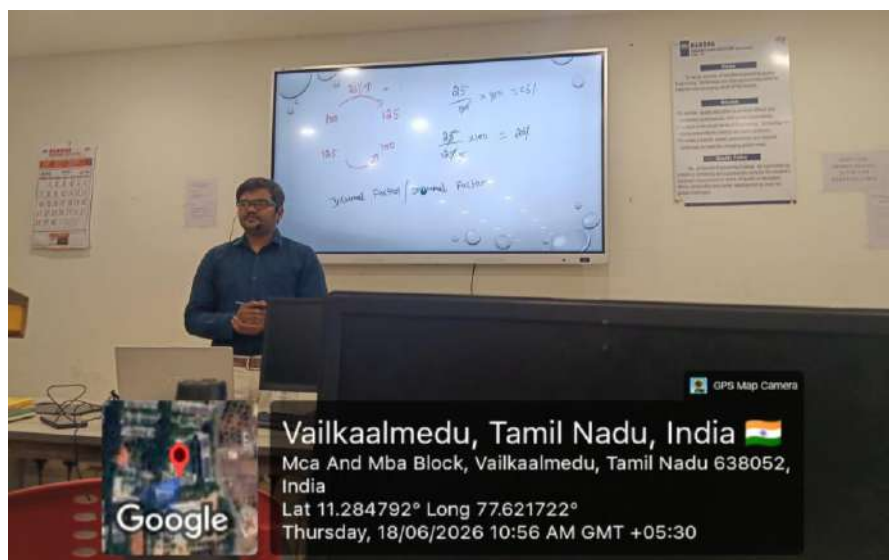
The sessions were handled by **Mr. R. Sakthikumar, Assistant Professor cum Aptitude Trainer, Sri Eshwar College of Engineering, Coimbatore**, and **Mr. R. Shankar, Assistant Professor cum Aptitude Trainer, Nandha Engineering College, Erode**.

Day 1: Quantitative Foundations

The first day focused on fundamental aptitude concepts and their applications. The resource persons explained various shortcut techniques and systematic approaches for solving:

- Clock Problems
- Calendar Problems
- Age-based Problems
- Percentage Problems

Participants actively engaged in solving practice questions and learned efficient methods to improve accuracy and speed.



Mr. R. Sakthikumar delivered an engaging aptitude training session, equipping faculty members with effective problem-solving strategies and quantitative reasoning techniques.

Day 2: Logical and Advanced Problem Solving

The second day concentrated on enhancing analytical and logical thinking abilities. The following topics were covered:

- Puzzles and Logical Reasoning
- Permutations and Combinations
- Pythagoras Theorem-Based Problems

Interactive problem-solving sessions enabled participants to explore multiple solution strategies and develop structured approaches to complex aptitude questions.



Mr. R. Shankar enhanced logical thinking through engaging puzzles and reasoning.

Day 3: Time, Speed and Distance

The final day focused on one of the most important quantitative aptitude topics:

- Time, Speed and Distance

The session covered fundamental concepts, shortcut methods, relative speed, trains, boats and streams, and practical applications. Participants solved a variety of problems to strengthen their conceptual understanding and computational efficiency.



Through practical examples and shortcut techniques, Mr. R. Sakthikumar and Mr. R. Shankar strengthened the aptitude and analytical skills of participating faculty members.

Faculty Feedback



The FDP was highly informative and provided practical approaches to solving aptitude problems efficiently. The resource persons explained complex concepts in a simple and engaging manner, making the sessions easy to follow. –**Mr.A.ANANDHARAJ,AP/Mathematics**



The FDP was highly beneficial for my competitive exam preparation. Earlier, I used conventional methods to solve problems, but now I have learned several shortcut techniques that will help me solve questions faster and improve my accuracy. – **Mr.C.SAJU, Lecturer/Mathematics**



As a Chemistry faculty member, I always felt that Mathematics was difficult and far beyond my comfort zone. While preparing for competitive examinations, I often skipped quantitative aptitude questions. However, this FDP changed my perspective. The concepts were explained in a simple and easy-to-understand manner, and the shortcut techniques made problem-solving much easier. Now, I feel more confident in Mathematics and can solve problems with greater ease. **Ms.P.MEENA, Lecturer/Chemistry**



The programme has enhanced my confidence in guiding students on aptitude-related topics and assessments. The shortcut techniques and strategies shared during the sessions will be valuable in both teaching and practice.

–**MS.R.POONGODI, AP/Mathematics**

Event Poster:



NANDHA ENGINEERING COLLEGE

(Autonomous)
(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi,
Accredited by NBA & NAAC with A+ Grade)
Erode, Tamil Nadu



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



NEC
RISING HIGHER
EVERYDAY

GUEST SPEAKERS



Mr. R. SAKTHIKUMAR
Assistant Professor cum
Aptitude Trainer
Sri Eshwar College of
Engineering,
Coimbatore.



Mr. R. SHANKAR
Assistant Professor cum
Aptitude Trainer
Nandha Engineering
College,
Erode.

DEPARTMENT OF MATHEMATICS
organized

FACULTY DEVELOPMENT PROGRAMME

AptiGenius: Faculty Empowerment on Quantitative Excellence

📅 18 - 20 June 2026 | ⌚ 09:30 AM - 04:00 PM | 📍 Block - 5, CC - 14 Lab

TOPICS COVERED		
DAY 1 QUANTITATIVE FOUNDATIONS  • Problems related to Clock • Problems related to Calendar • Problems related to Age • Problems related to Percentage	DAY 2 LOGICAL & ADVANCED PROBLEM SOLVING  • Puzzles • Permutation • Combination • Pythagoras Theorem based problems	DAY 3 APPLICATIONS IN MOTION  • Problems related to Speed, Time and Distance

SDG ALIGNMENT

4 QUALITY EDUCATION



SDG 4 – Quality Education

This FDP contributes to SDG 4 by enhancing the competencies of educators through continuous professional development, strengthening the quality of teaching and learning and promoting inclusive and equitable quality education.





Objective: To enhance the quantitative aptitude, logical reasoning and problem-solving skills of faculty members for effective teaching, mentoring and preparing students for competitive exams and placements.



STAFF COORDINATORS
Mrs. M. Priyadharsini AP/ Mathematics
Mrs. P. Devi AP/ Mathematics

CONVENER
Dr. G. S. Murugapandian
Head / Mathematics

PATRONS
Dr. U. S. Ragupathy, Principal
Mr. R. Thiruneelakandan, HoD/FED

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