Nandha Engineering College (Autonomous), Erode -638052

Approved by AICTE, Affiliated to Anna University, Chennai

Accreditated by NAAC with A+ Grade

Nurturing young minds to engineer the future

ANNUAL REPORT   2023-2024

- NEC, established in 2001, with 3 branches, completing **23 years of service** to the students' community
- Presently the college offers **12 B.E/B.Tech, 4 M.E/M.Tech, MBA, MCA & 5 (CSE, ECE, EEE,MECH & Physics) Research Programmes**

Academics: UG Courses:

- ❖ B.E. Agricultural Engineering
- ❖ B.Tech. Artificial Intelligence and Data Science
- ❖ B.E. Biomedical Engineering
- ❖ B.Tech. Chemical Engineering
- ❖ B.E.Civil Engineering
- ❖ B.E. Computer Science & Engineering
- ❖ B.E. Computer Science & Engineering (Cyber Security)
- ❖ B.E. Computer Science & Engineering (Internet of Things)
- ❖ B.E. Electrical & Electronics Engineering
- ❖ B.E. Electronics & Communication Engineering
- ❖ B.E. Mechanical Engineering
- ❖ B.Tech. Information Technology

PG Courses:

- ❖ M.E. Computer Science &Engineering
- ❖ M.E. VLSI Design
- ❖ M.E. Structural Engineering
- ❖ M.E. Engineering Design
- ❖ MCA
- ❖ MBA
- Permanent Affiliation: MBA, ECE, EEE, Mech , CSE & IT
- **Accredited by NBA (CSE, IT, ECE, EEE & Mech)** with **High score of 727**.
- **NAAC accreditation (Cycle I : 2015, Cycle II :2022),** with **A$^+$ grade [Score: 3.38/4.00]**
- Accorded Autonomous in the year 2013 & Renewed in 2018 & Autonomous Extension from 2023 to 2033
- UGC granted 12B and 2f status.

Human Resources:

- ✓ Undergraduate: **3033**
- ✓ Postgraduate: **213**
- ✓ Total (UG & PG): **3246**
- ✓ Alumni: **11805**
- ✓ Faculty strength : **198**
- ✓ Non teaching staff : **97**

Achievements

College Ranking:

Chronicle

- ❖ Ranked 37th (A) among All - India Top Engineering College

Highlights(Awards and Recognition of Department /Institution)

- ➢ Curriculum and syllabi are revised in R22 to accommodate AICTE model curriculum, credit exemption for internship, online courses and features of National Educational Policy (NEP 2020).

- ➢ Civil Engineering department received **Outstanding University Award** from American Concrete Institute for Student Chapter Activities.

- ➢ III Year IT Student P.Vasanth received I St Prize In workshop held at M.A.M Cet (Pals Tinkathon).

- ➢ Academic Initiatives
    - ❖ Add-On Course: **16**
    - ❖ One Credit Course: **24**
    - ❖ Internship: **330** students
    - ❖ No. of Industrial Projects: **156**
    - ❖ Course Exemption: Odd sem : **372** students

        Even sem: **618** students
    - ❖ Open Elective: Odd sem : **332** students

        Even sem: **86** students

- ➢ Conducted / Organized
    - ❖ National Unity Day
    - ❖ International Yoga Day
    - ❖ National Science Day
    - ❖ Innovation Day
    - ❖ Cultural Fest (Rhythm)
    - ❖ Flag Day
    - ❖ Technical Fest (Synectics)
    - ❖ Sports Day & Annual Day
    - ❖ Women's Day Celebration
    - ❖ Freshers Day
    - ❖ TED Talk
    - ❖ G20-Campus Connect
    - ❖ Anti-Drug Awareness Programme, Fire Safety Programme

STUDENTS ACHIEVEMENTS

- **478** Students have participated and **194** won prizes in various co-curricular events.

- **153** Students have participated and **32** won prizes in various extra-curricular events

- **NPTEL Course completed** – Odd sem **- 259** Students & 83 Faculty members

  Even Sem – **280** Students & 98 Faculty members

- **Shreeram B.M of third year ECE student have cleared GATE 2024 examination**

- **A.Maheswari of MCA students received MSME women**

- Mathumtha.G secured the third place in a Paper Presentation event titled "Paper Glitz-Mountain Climber Kit Using IoT" at SNS College of Technology, Coimbatore.

- K.Bhanuja and V.Arrshan, second-year students, achieved Elite Certification in NPTEL courses from IIT Kharagpur.

- Siby Raj R received the Best Performer Award in a Hackathon event organized by KGISL Institute of Technology.

- Hariharan AV, a student from Park College of Engineering And Technology, was awarded the Best Coder title in a Coding event.

- Arulmurugan. T and Nivetha V received the Best Student Award at IEI Engineers Day organized by IEI.

- Ashok Sri S secured the Second Prize in a Mr. Mechanic event held at Kongu Engineering College.

- G Deepika, from CSE, secured the first place in a TED Talk event at NEC.

- S Siva Harine, a second-year student of CSE, secured the second place in a Declamation event organized by Nehru Yuva Kendra.

- N Karthikeyan and M V Kishore, both third-year students of CSE, secured the first place in a Coding Bat event at SNS Institutions.

- T R Nagajothi, a second-year student of IT, secured the first prize in a Paper Presentation event at Kongu Engineering College.

- Vasanth P, a third-year student of IT, secured the first prize in M.A.M CET (PALS Tinkathon) at a workshop.

- Anu Harshini V A, a second-year student of IT, secured the first prize in a Project Presentation event at IIT Madras.

- C.Eneya Sri, a third-year student of EEE, secured the second prize in Essay Writing at Sona College of Technology.

- C.Eneya Sri, a third-year student of EEE, secured the second prize in Story Telling at Sona College of Technology.

- V.Gokulan secured the First Prize in a Quiz Contest at Sengunthar Engineering College, Tiruchengode.

SPORTS ACHIEVEMENTS:

INTERZONE

- T.Vinuprasanth, a first-year student, won a Bronze Medal in Silambam organized by the All India Silambam Federation.

- Vigneshwaran.A received the Fourth Prize in a District Level Marathon and also participated in a State Level Marathon, both organized by Tamil Nadu State Aids Control Society (TANSACS).

- V R Bharath, a student of CSE, won a Gold Medal in Erattai Kambu Veechu organized by the All India Silambam Federation.

- Sanjay R, a third-year student of IT, secured the first prize in Sports-Volley Ball at YSAA National Level Championship India.

- A.Jagapriyan, a second-year student of EEE, secured the first prize and championship in National Level-Volley Ball at Youth Sports and Activities Association Of India.

- S Aravinth, a student, won Gold Medals in Long Jump at a National Level Event held in Goa on 5th November 2023.

- S Aravinth, K Gowshigan, S Jagadeesh, and M Mohamed Riyaz collectively won a Gold Medal in Volleyball at a National Level Event held in Goa on 5th November 2023.

ZONAL LEVEL TOURNAMENT

In Anna University Zone 12 NEC won

- Chinmaya S secured the third place in Roller Skating at a State Level Anna University Match.

- S Dharshini, a second-year student of EEE, secured the second prize in Zonal Level-Running at Anna University Sports Board, Chennai.

- S. Anbarasan & T. Dhilip secured the Second Place in an Anna University, Zonal Kabbadi Match at KSR College Of Engineering, Tiruchengode, Namakkal.

Faculty Achievements:

- Mr.G.Prabhakaran ,Assistant Professor /ECE utility patent granted for the invention of "Modified Two Stroke Gasoline Engine With Transfer Chamber"

- Dr. V. Manimegalai and Dr. K. Parthiban from the MBA department received the AGAR Research Excellence Award 2023 from the Association of Global Academician and Researcher (AGAR) in Tripattur, Tamil Nadu.

- Dr. C. N. Marimuthu, the Dean of R&D in the ECE department, received the Best Achievement Award from IETE Erode Local Center for outstanding academic and research contributions.

- T. Jayachandran, an AP in the ECE department, authored a book titled "The Mysterious Guide" focusing on living a happy, healthy, successful, and balanced life.

- Dr. S. Kavitha, the Dean of ECE, received a copyright for the software "Smart Screen Reader for Visually Impaired People" developed by her.

- Dr. D. Arulanantham, an ASP in the ECE department, published a book on Networks and Security in January 2024.

- Ms. V. Parameshwari, an AP in the ECE department, developed an app for the subject Electronic Devices and Circuits during July 2023.

- Ms. V. Parameshwari and Mr. M. Srinevasan, both APs in the ECE department, jointly developed products including a Digital Power Supply and a Spirit Level Meter in January and February 2024, respectively.

- Dr. M. Easwaramoorthi, Dr. N. Senniangiri, Mr. T. Venkateshan, and Dr. M. Manikandan from the Mechanical Engineering department received awards for Leadership, Professional Volunteerism, Best Faculty, and Recognition of Review, respectively.

- Several faculty members from the CSE department, including Dr. P. Thirumoorthy, Dr. D. Vanathi, and Dr. P. Sukumar, were recognized for their contributions by various organizations and journals.

- Ms. Suguna Angamuthu from IT department achieved dotNET Full Stack Certification from Wipro.

- Mr. P. Krishnagandhi from the EEE department received awards and recognition for his contributions to incubation development, IEEE ethics, pre-university champion, and coordinatorship for India Book of Records.

- Dr. E. K. Mohanraj from the Civil Engineering department received awards for Best Engineer, Best Engineer in Academics, and an Active SPOC Award. The Civil Engineering department also received the Excellent University 2022 Award for the third time from the American Concrete Institute.

Research & Development:

Publications:

NEC h- index of 23 Citation 617 as on 20.12.2023

The faculty members Published

- ➢ **91 papers** - Scopus / WoS and UGC journals
- ➢ **9 papers – SCI**
- ➢ **294 – UGC & Others**

Grants Received:

MSME – 87 Lakhs for 5 projects

Research guidance:

- ➢ Recognized supervisors : **22**
  - ▪ Internal Research scholars: **37**
  - ▪ External Research scholars: **32**

Research (Patent / Copyrights Applied):

- ✓ Patent: 5 patents granted/ 14
- ✓ Copyright: 6
- ✓ Book Chapter: 5

Pursuing higher studies (Ph.D):

- ➢ 69 faculty members are pursuing higher studies in various fields

FDP/Seminar/Conference attended:

- ➢ The faculty members has undergone **7** programs in various industries and institutions

FDP/Seminar/Conference Organized:

- ➢ **101** programs were organized in our campus

Consultancy: Generated **Rs.37, 53, 692, Lakhs** through Testing and Consultancy activities.

Industrial interaction

- ➢ Signed **MoU'S with 22** various industries and **30** Activities
- ➢ Students undergone **22 Industrial Visit** to various locations

Scholarship

- ➢ Our management awarded Nandha Scholarship (NST) to the tunes of **57.10Lakhs** and 297 students benefited for their course durations.
- ➢ **Rs. 45, 59, 060** was received from District Backward Welfare office for **907**students.
- ➢ **Rs. 1, 69, 97, 930** was received from District AdiDravida welfare office and Department of Minorities welfare office for **299** students.

CiPD:

- ✓ **29 Lakhs+58 Lakhs** fund received for product development from MSME.
- ✓ Innovation Day Celebration - **9,10,11 February 2024**

   Innovation Day Project Displayed: **313**
- ✓ Number of Activity conducted in IPR and Innovation through IIC is **50.**
- ✓ Our IIC is rated under **3 stars** category for the activities.
- ✓ Number of Product Developed: **28**

Professional chapters and Clubs

   To promote co-curricular activities, the following clubs and professional societies are actively functioning. Around 2000 students have registered in various clubs.

Professional Chapters: IETE, IICHE, ICACI, ISTE, CSI, ICT Academy, EEDISSIA, CII, NIP, ICI, IEEE, IEI, SAI, SSS, ISAE &BESI

Technical Clubs: Multimedia Club, Renewable Energy Club, Open Source Club, Consumer Club, ROBO Club &Bionics Club, Multimedia club, Literature Club,

Extra-Curricular Clubs: Cultural Club, NSS, Road Safety, Tree plantation Club, Fine Arts, Photography Club, Sports Club, Music Club, Trekking Club, YRC Club &Social Club.

Center of Excellence

In-house Companies

- ➢ iGEN– 207 students benefitted
- ➢ Pinnacle (Thullium) – 14 students benefitted

Industry Supported Laboratories

- ➢ Saran Solar Solutions
- ➢ SAN Engineering Solutions
- ➢ Vi Micro Systems Pvt,Ltd
- ➢ Kulothung Automotive Systems
- ➢ Virtusa
- ➢ Share Trading Lab

Social Activities

- ➢ World Environment Day
- ➢ Blood Donation camp
- ➢ Tree Plantation
- ➢ Vigilance Awareness Program
- ➢ Communal Harmony Week
- ➢ World AIDS day
- ➢ Energy Conservation Awareness

- ➢ Voters day Awareness Program
- ➢ Pledge Against Untouchability

Entrepreneur Development Cell

- ❖ Future Scope in AI for Entrepreneurs motivation program held on 10.10.2023, No. of students attended : 180
- ❖ Seminar on Business Ideation and Opportunities & Investment Opportunities, held on 12.10.2023, No. of students attended : 112 & 60
- ❖ Program on A Life Journey Towards Successful Entrepreneurship, held on 15.12.2023, Students attended : 160
- ❖ Entrepreneurship awareness program held on 10.01.2024, Students Participated : 100

Library Details

- ⌗ Periodical section possessing **Rs 6.42 lakhs** worth, **108** International journals, **108** National journals, **14** International and **64** National Magazines in printed form.

- ⌗ Digital Library possessing **Rs 8.17 lakhs** worth, **200** electronic journals for CSE,ECE, EEE, E&I from (IEEE) Institute of Electrical, Electronics Engineers, USA, **2952** electronic journals for Engineering & Technology, **31, 535** Audio &Visual course files, **8820** electronic books and **9,202** Conference Proceedings from leading publisher J – Gate

- ⌗ **130** Pro Quest electronic journals for Business Administration from DELNET.

- ⌗ **Totally 66,942 electronic sources are available for Research and Development**

  The above said all types of electronic sources i.e journals, magazines, audio & Visual files, books and Proceedings can be accessed and downloaded any part of our campus on 24 X 7 basis.

- ⌗ **6895** e-books **842** Journals and magazines are available in the storage medium as CDs and DVDs.

- ⌗ More than **10,304 NPTEL video courses** are available from IITs and IIMs.

- ⌗ Currently, our library has reached **20307 Titles** and **63703 volumes.**