

NANDHA ENGINEERING COLLEGE



(AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Perundurai, Erode - 638012, Tamil Nadu, India. Email: principal@nandhaengg.org

Website: www.nandhaengg.org Phone: 04294-225595

Institution Distinctiveness

Acceleration in the technological advancement in recent times urges the students to be industry-primed by acquiring eclectic skills while graduating from the institutes of higher education. The advancements will encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities. In consistent with the above, the technical institutions started to establish forums to enable students to employ their novel and creative ideas originating from fundamental concepts learnt in the classroom and to perpetuate the hands-on knowledge gained in the laboratory into a new product.

To ensure Innovation as a prime kingpin, Nandha Engineering College has introduced the following platforms to build the culture of innovation and to transform dream ideas into reality.

- Institution's Innovation Council (IIC)
- Centre for Innovation and Product Development (CiPD)
- Business Incubator (BI)

The afore mentioned wings at Nandha Engineering College aim to develop new products that will have a societal impact by leveraging exhaustive technology.

Institution's Innovation Council (IIC)



Nandha Engineering College, as per the guidelines of Ministry of Human Resource Development Innovation Cell (MIC), has constituted Institution's Innovation Council in the year 2018. IIC mainly focuses in encouraging, inspiring and nurturing young students by exposing them to new ideas and

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processes resulting in innovative activities in their formative years.

The major focus of IIC is

- To encourage the creative energy of student population to work on new ideas and innovation and promote them to develop products.
- To develop better cognitive ability for Engineering/technology students and to create complete ecosystem which will inculcate the culture of Innovation.
- To conduct various innovative and entrepreneurship-related activities prescribed by MIC in time bound fashion.
- To identify and reward innovations and share success stories.
- To organize periodic workshops/ seminars/ interactions with innovators / startups / entrepreneurs, professionals and create a mentor pool for students' innovations.
- To network with peers and national entrepreneurship development organizations.

Centre for Innovation and Product Development (CiPD)



CiPD was promoted in Nandha Engineering College in 2015 with the aim of creating spark of innovation in the students' mind and to expose them to the existing problems that need to be solved. It encourages the students to come up with ideas which have innovation, Intellectual Property Right (IPR) component and potential commercial value. It connects the students with experts for mentoring. Project making, project exhibition &

presentation, hackathon and participation in competitions are part of our yearly event (Innovation

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Day) schedule. The CiPD plays a vital role in inviting innovators, researchers, successful startups/entrepreneurs from varied fields to share their experience for problem solving and success scenarios which may benefit students/faculty members of the Institution. Further, the centre aims to build an interdisciplinary networks and teams for students and facilitate understanding of subtle aspects of innovation, IPR, startups and entrepreneurship.



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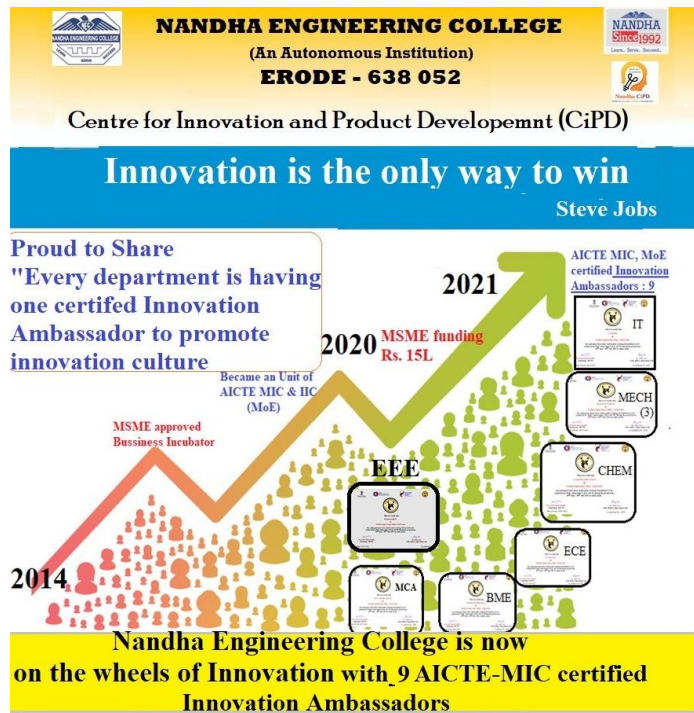
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PROGRESS OF CiPD



NEC - Business Incubator (BI)
(Approved by MSME)



Objectives

- Motivating the students to think laterally and out-of-the-box to generate innovative ideas
- Transforming innovative ideas into products of societal needs
- Providing required technical guidance by mentoring the students to carry out the project effectively.
- Filing patents and commercialization of the products in the long run Work Flow of CiPD.

Business Incubator (BI)

NEC Business Incubator (BI) is an institutional mechanism providing a conducive ecosystem to promote the innovation, product development, startups and entrepreneurship. Nandha Engineering College was officially approved by MSME (Govt. of India, Delhi) as a Host Institution (HI) for idea incubation from 2018.

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It aims to encourage students with innovative ideas & entrepreneurial spirit to become entrepreneurs by imparting skills via training Programmes. Besides students, general public with inclination for novel idea-based business ventures and existing companies interested in incubating unique spin of ideas towards commercialization can also avail the BI platform. MSME is providing funding support up to INR 15 Lakh per approved idea through the business incubators.

Ranking

IIC of Nandha Engineering College has been awarded five star and four star rating by the Ministry of Education (MoE) for innovation and startups for the year 2019-2020 & 2020-2021 respectively.



Grants

BI of NEC has been funded with Rs.15 lakh for the idea Roll and Pull Uprooting Machine which is helpful to the small and marginal farmers to harvest Tapioca with less manpower. The product development is in the verge of completion and is expected to be completed in July 2022.

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Patents and Copy rights

21 patents have been obtained by faculty and students for their invention and 30 copyrights have been granted for the creative work of faculty and students.



Product Launch - Automatic Sanitizer Dispenser and Automatic Hand Sanitizer developed by Mr.M.Seenivasan, AP/ ECE and Mr.R.K.Boopesh of second year ECE were launched.

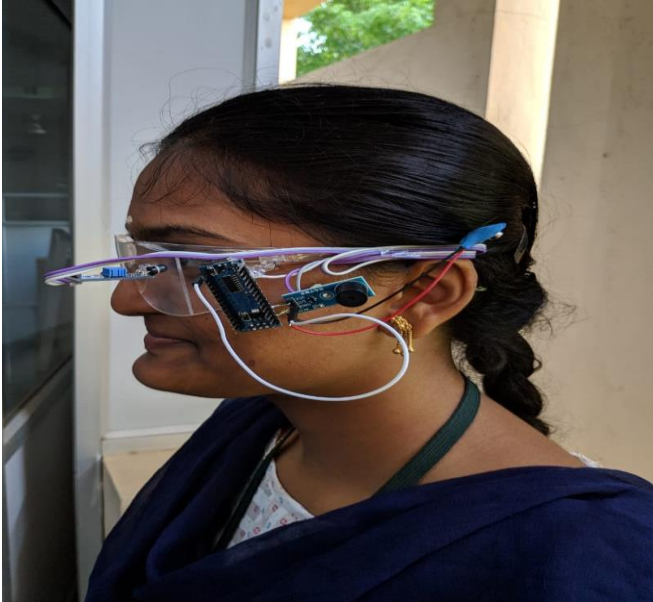
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- A project titled Automatic Alert for Sleepy Drivers was done by Mr.S.Premnath, Ms.R.Dhivyarani and Mr.L.Mohanasundar of Second year EEE through CiPD. It alerts the drowsy driver to avert accidents.
- Automatic Seed Sowing Farobot Using Arduino was developed by Jobin Joseph, A.J.Arsha, C.M. Drishya and P. Nayana of second year Agriculture Engineering students to overcome the problem of labour shortage.
- Solar Inverter developed by Mr. M.Arunprasath, Mr. P.S.Karthickh Raghunath, Mr. S.Kavin Kumar and Mr. K.C.Santhosh of III year EEE with the guidance of faculty members Mr.S.Prabhakaran, AP/EEE and Mr.P.Krishnagandhi,AP/EEE.



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Programmes Organized

In order to nurture innovation culture, entrepreneurship and Intellectual Property Rights among the students, CiPD of NEC organizes various awareness programmes, workshops and seminars by inviting experts and officials as resource persons.

Nandha Engineering College

Centre for Innovation and Product Development (CiPD)



The CiPD aims to create spark of innovation in the students' mind so that he or she can see the existing problems that need to be solved. The CiPD encourages students to come up with ideas which have innovation, Intellectual Property Right (IPR) component and potential commercial value. It connects them with experts for mentoring. Project making, project exhibit & presentation, hackathon and participation in competitions are part of our yearly event (Innovation Day) schedule. The CiPD plays vital role in inviting innovators, researchers,

successful startups/entrepreneurs from varied fields to share their experience for problem solving and success scenarios which may benefit students/faculty members of the Institution. Further, the centre aims to build an interdisciplinary networks and teams for student's and facilitate understanding of subtle aspects of innovation, IPR, startups and entrepreneurship.

Business Incubator

In the simplest term Innovation could be defined as converting an idea into new or improved products, processes and services. Undoubtedly, Innovation is about taking inventions to marketplace by translating scientific knowledge into products, services and offerings for economic growth and social development. Youth of our country, especially in higher education institutions (HEIs) need to play crucial role at every step to shape the innovation ecosystem. This ecosystem will encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities. To ensure that Innovation is primary fulcrum of our Institution, Nandha Engineering College has following platforms with the primary mandate to systematically build culture of innovation, transforming dream ideas into reality and necessary ecosystem among faculty and student members.

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Centre for Innovation and Product Development (CIPD) and Business Incubator

Business Incubator (BI)

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List of products developed

- Coconut Dehusker
- Roll and pull type uprooting machine
- Sprayer
- LED Display
- Cash chest
- Water Level Indicator
- Bio-Degradable Battery
- Integrated 2 & 3-Wheels Electric Cycle
- Jacquard m/c Operating Device
- Coconut Cutting Machine



Coconut Dehusker



Sprayer



3-Wheels Electric Cycle



Coconut Dehusker



Cash chest



Water Level Indicator