

Institute's Strategic Committee Members

SLNo.	Members	Representation
1	Dr. N. Rengarajan, Principal, Nandha Engineering College.	Chairperson
2	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions.	Member
3	Dr. M. Easwaramoorthi, Professor & Head, Department of Mechanical, Nandha Engineering College.	Member
4	Dr.S.Kavitha, Professor & Head, Department of ECE, Nandha Engineering College.	Member
5	Dr. E.K. Mohanraj, Professor & Head, Department of Civil Engineering, Nandha Engineering College.	Member
6	Dr. C.N. Marimuthu, Professor, Research & Development, Nandha Engineering College.	Member
7	Dr. D.V anathi, Professor & Head, Department of Computer Science Engineering, Nandha Engineering College.	Member
8	Dr. G. Ramani, Professor & Head, Department of Electrical & Electronics Engineering, Nandha Engineering College	Member
9	Mr. Venkateswaran Doraisamy Partner – Venbro Polymers, Bhavani Main Rd., Erode, Tamil Nadu 638004	Member – Industry
10	Dr S. Syath Abuthakeer, Associate Professor, Dept. of Mechanical Engineering, PSG College of Technology, Coimbatore.	External Member
11	Mr. S. Muruganandham	Member – Representing Alumni

Outcome of Strategic Plan 2016-2021

S.No.	Plan	Outcome
1.	Strengthening of research publications	Progress of research publications year wise 2017-18: 15 2018-19: 30 2019-20: 39 2020-21: 17 2021-22: 35
2.	Establishing Centre of Excellence (CoE)	Established Centre of Excellence MECH, ECE, CSE & IT
3.	Improving research activities by leveraging the grant-in-aid of external funding agencies	Progress of grant received year wise 2017-18: 4542526 2018-19: 3485875 2019-20: 2172254 2020-21: Nil 2021-22: 1562500
4.	Improving industrial consultancy works	Progress of industrial consultancy works year wise 2018-19 : 564937 2019-20 : 326780 2020-21 : 299000 2021-22: 608000
5.	Introducing new programs	Two new programs namely B.E Computer Science Engineering (Internet of Things) and B.E Computer Science Engineering (Cyber Security) have been approved by AICTE from the academic year 2022-2023.
6.	Active involvement of faculty in industry interaction: FINE (Faculty Industry Education)	To provide training to faculty through FINE
7.	Creating awareness about IPR for faculty and student members Encouraging filing of IPRs(Patent & Copyright)	To organizing IPR and copyrights related workshops Copyright:37 Patent: 46
8.	Quality improvement through Accreditation	CSE, ECE and IT Programs were accredited by NBA from June 2021.



NANDHA ENGINEERING COLLEGE
(Autonomous)
ERODE- 638 052

STRATEGIC PLAN: 2021-2026

S.NO	DETAILS OF MEETING	DATE
1	Meeting -1	08.07.2021
2	Meeting -2	07.07.2022
3	Meeting -3	07.07.2023
4	Meeting -4	09.07.2024
5	Meeting - 5	08.07.2025
6	Meeting - 6	10.02.2026

NANDHA ENGINEERING COLLEGE, ERODE – 638 052
 (An Autonomous Institution, Affiliated to Anna University Chennai and approved
 by AICTE, New Delhi)
Minutes of the Meeting (MoM)

1st meeting of Strategic Planning Committee held on 08th July 2021

The first meeting of the Strategic Plan committee of Nandha Engineering College was held on 08.07.2021, 9.00 AM at Board room. The list of members attended the meeting is enclosed in **Annexure I**. The Committee considered various items in the agenda and the deliberations are detailed below:


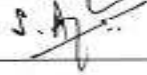


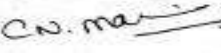



ITEM 1.01	Dr. N. Rengarajan, Principal gave the welcome note and introduced the members
ITEM 1.02	Review of Goals and objectives of five year Strategic Plan (2016-2021) Dr. N. Rengarajan, Principal reviewed the target level attained during the five year plan 2016-2021 and appreciated the achievements of faculty members and students who succeeded beyond the target.
ITEM 1.02	Goals and objectives of five year Strategic Plan (2021-2026) Dr. N. Rengarajan, Principal from the review of five year strategic plan (2016-2021) presented the Goals and objectives of five-year strategic plan (2016-2021) <ul style="list-style-type: none"> ✓ Strengthening of research publications ✓ Establishing Centre of Excellence (CoE) ✓ Revenue generation through consultancy works ✓ Improving research activities by leveraging the grant-in-aid of external funding agencies ✓ Quality improvement through accreditation ✓ Introducing new program ✓ Active involvement of faculty in industry interaction: FINE (Faculty Industry Education) ✓ Active progress of business incubator ✓ Creating awareness about IPR for faculty and student members. Encouraging filing of IPR (Patent & Copyright) <ul style="list-style-type: none"> • Members suggested making use of final year project works for publications. • Members emphasized the need for having Centre of Excellence (CoE) in the emerging areas of different discipline and suggested to form CoE based on the industry requirement. • After deliberations, it was decided to make use of the facilities available in the laboratories for consultancy works and generate revenue. • Members expressed the challenges in getting the funding from government agencies and suggested to motivate the faculties to apply for funding based on the faculty members area of interest. • Deliberated advantages of accreditation and suggested to go for accreditation for eligible Programmes. • Members opined to introduce new specific programs like Internet of Things Cyber Security etc. • Suggested to increase the number of faculty members undergoing industrial training through Faculty Industry Education (FINE). • Members appreciated the initiatives taken by the college towards student's project through innovation club/CiPD. Members suggested the following to take the projects to next level. <ul style="list-style-type: none"> ✓ Awareness about IPR, patent and copyright filing
ITEM 1.03	Any other matter - Nil
ITEM 1.04	Vote of Thanks: Finally Dr. N. Rengarajan, Principal delivered the vote of thanks

Date: 08.07.2021


Dr. N. Rengarajan
 Principal

ANNEXURE - I
LIST OF MEMBERS - STRATEGIC PLANNING COMMITTEE

Meeting No.	Venue	Date & Time
1	Board Room, NEC	08.07.2021, 9.00 AM

Sl.No.	Members	Representation	Signature
1	Dr. N. Rengarajan, Principal, Nandha Engineering College.	Chairperson	
2	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions.	Member	
3	Dr. M. Easwaramoorthi, Professor & Head, Department of Mechanical, Nandha Engineering College.	Member	
4	Dr.S.Kavitha, Professor & Head, Department of ECE, Nandha Engineering College.	Member	
5	Dr. E.K. Mohanraj, Professor & Head, Department of CIVIL Engineering, Nandha Engineering College.	Member	
6	Dr. C.N. Marimuthu, Professor, Research & Development, Nandha Engineering College.	Member	
7	Dr. D. Vanathi, Professor & Head, Department of Computer Science Engineering, Nandha Engineering College.	Member	
8	Dr. G. Ramani, Professor & Head, Department of Electrical & Electronics Engineering, Nandha Engineering College	Member	
9	Mr. Venkateswari Doraisamy Partner - Venbro Polymers, Bhavani Main Rd, Erode, Tamil Nadu 638004	Member - Industry	
10	Dr S. Syath Abudakker, Associate Professor, Dept. of Mechanical Engineering, PSG College of Technology,Coimbatore.	External Member	
11	Mr. S. Muruganandham	Member - Representing Alumni	

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Minutes of the Meeting (MoM)

2nd meeting of Strategic Planning Committee held on 7th July 2021

The second meeting of the Strategic planning committee was held on 07.07.2021, 09.00 AM at board room. The list of members attended the meeting is enclosed in **Annexure I**

The Committee considered various items in the agenda and the deliberations are detailed below:

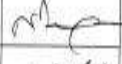



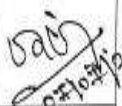
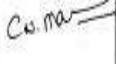

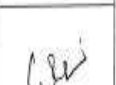
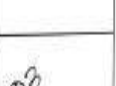


ITEM 2.01	Dr. N. Rengarajan, Principal gave a welcome note.
ITEM 2.02	Goals and objectives of Strategic Plan (2016-2021) and progress
Discussion	<ul style="list-style-type: none"> Number of publications in reputed journals is 165 of which 35 is published in SCI journals during 2021-2022. A grant of Rs. 15.625 Lakhs has been received from various funding agencies for organizing various technical programs. Following two new engineering programs have been approved by AICTE from the academic year 2022-2023 <ol style="list-style-type: none"> B.E Computer Science Engineering (Internet of Things) B.E Computer Science Engineering (Cyber Security) Revenue of Rs. 6.08 Lakhs is generated through consultancy works during the academic year 2021 - 2022. <p>Members appreciated the progress and suggested to follow the same approach in the forth coming years to achieve the five year plan.</p>
ITEM 2.03	Any other matter - Nil
ITEM 2.04	Vote of Thanks
	Finally, Dr. N. Rengarajan, Principal delivered the vote of thanks

Date: 07.07.2022


Dr. N. Rengarajan
(Principal)

ANNEXURE - I
LIST OF MEMBERS - STRATEGIC PLANNING COMMITTEE

Meeting No.	Venue	Date & Time
2	Board Room, NEC	07.07.2022, 09.00 AM

Sl.No.	Members	Representation	Signature
1	Dr. N. Rengarajan, Principal, Nandha Engineering College	Chairperson	
2	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions	Member	
3	Dr. M. Enswaramoorthi, Professor & Head, Department of Mechanical, Nandha Engineering College	Member	
4	Dr.S.Kavitha, Professor & Head, Department of ECE, Nandha Engineering College	Member	
5	Dr. E.K. Mohanraj, Professor & Head, Department of Civil Engineering, Nandha Engineering College	Member	
6	Dr. C.N. Marimuthu, Professor Research & Development, Nandha Engineering College	Member	
7	Dr. D. Vanathi, Professor & Head, Department of Computer Science Engineering, Nandha Engineering College.	Member	
8	Dr. G. Ramani, Professor & Head, Department of Electrical & Electronics Engineering, Nandha Engineering College	Member	
9	Mr.Venkateswaran Doraisamy Partner - VenbroPolymers Bhavani Main Rd, Erode, Tamil Nadu 638004	Member - Industry	
10	Dr. S. Syath Abuthakeer, Associate Professor, Dept. of Mechanical Engineering, PSG College of Technology, Coimbatore	External Member	
11	Mr. S. Muruganandham	Member - Representing Alumni	

2021-2026 Strategy with expected outcome

Teaching Learning Process

S.No.	Goal	2021-2026 Strategy	Expected Outcome
1.	Introducing Innovative Teaching Methods	Design thinking/case study, Flipped Classroom, Practical oriented learning.	At least one activity per course
2.	Developing e-content to encourage self-learning aspects	Developing lecture videos and course materials	Lecture videos for one complete course per department per semester must be uploaded in the Google Classroom
3.	Enhancing inter-disciplinary approach in teaching	Promoting interdisciplinary projects.	Minimum 25% interdisciplinary projects are expected
4.	Providing personal and career mentoring to students	Effective implementation and monitoring system to enhance mentoring.	<ul style="list-style-type: none"> • Organizing two meetings per semester • Coaching Weak students in each semester • Exhibiting at least 40% of improvement in effectiveness
5.	Promoting Technology Assisted self-learning	Encouraging students to register for more online courses through self study mode in NPTEL, Infosys springboard and IBM digital learning.	At least 3 course per year.
6.	Converting Projects into Papers/ products/ patents	Encouraging students to convert projects to papers / products/ patents	In each department aiming to convert: 60% - academic projects to papers 10% - projects to products 5% - projects to patents

Resources – Infrastructure:

S.No	Goal	2021-2026 Strategy	Expected Outcome
1.	Laboratory up-gradation	<ul style="list-style-type: none"> • Purchase of new equipment to meet out the curricular aspects. • Setting up of cutting edge research labs 	Budget allocation for purchasing new equipment as per the need of department every year and audit the utilization of the same
2.	Improvement in Computing facility	Implementing Bring Your Own Device (BYOD) concept by motivating students through arranging loans and subsidiary.	Each student should possess a laptop.

3.	Creating smart class rooms/studios	<ul style="list-style-type: none"> Improving the utilization of Smart Class Room and Studio. Each department should a studio hall 	At least for one course, entire e-lecture video is to be developed per semester in each department.
4.	Creating Teaching & Learning resource repository	Developing e-learning resource repository consisting of lecture PPTs, Videos, short summary, formula, Q-bank by faculty members and to be kept for free access to students	Repository for every subject should be created in each department in the respective Google class room
5.	Creation of Continuing Education cell	<ul style="list-style-type: none"> Organizing brainstorming lectures to motivate faculty and students towards continuous learning. Creating platform for offering online courses in NPTEL, Coursera, Udemy etc by our faculty 	<ul style="list-style-type: none"> At least four programmes in a department per year At least one online course per department to be offered in a year
6.	Up gradation of Sports infrastructure facilities	<ul style="list-style-type: none"> Encouraging the students to compete in zonal, state and national level matches Increasing the competitions conducting in regard of Institution's sports day Conducting more number of activities in Sports club. Establishing new play facilities in hostels Upgrading the gym facilities, organize fitness camp and seminar Increasing the number of Sports quota admissions 	<ul style="list-style-type: none"> Minimum 10% increase in overall participation in sports by the students every year Budget allocation for sports requirements Special concession for students with sports competency

Human Resources – Faculty and Supporting Staff

S.No	Goal	Strategy	Expected Outcome
1.	Faculty retention	<p>Retaining eminent professors after retirement as Emeritus Professors</p> <p>Appointing experts from industry & other institutions/ organizations as Adjunct faculty</p>	<p>Minimum 1 Emeritus Professor per department</p> <p>Minimum 2 Adjunct Faculty and two visiting faculty from Industry per department</p>

2.	Faculty qualification and cadre ratio	Recruiting more faculty members to meet the ratio	AICTE and NBA norms to be met.
3.	Faculty Professional Skill Development	<p>Encouraging faculty to</p> <ul style="list-style-type: none"> • Participate in FDP/ conferences/ workshops/ seminars • Register more number of online courses. • Act as resource person- expert lecture, Chief Guest, Chairperson, BOS member, etc • Organize FDPs/ Seminars/ Conferences 	<ul style="list-style-type: none"> • One online course per semester • Attend minimum one FDP/conferences/ workshops/ seminars per semester • As resource person, in each department minimum one faculty per year • Organize minimum four FDPs/ Seminars/ Conferences per department in a year
4.	Faculty Induction and Pedagogical programme	<ul style="list-style-type: none"> • Training faculty with less than two years of experience. • Organizing Refresher Workshops for faculty between two and five years of experience 	Minimum one programme at institutional level per year
5.	Staff Qualification and up gradation for Supporting Staff	Encouraging staff to pursue higher education	Minimum one faculty per department

Human Resources - Students

S.No	Goal	Strategy	Expected Outcome
1.	Student diversity	Conducting National level competitions and creating promotion in other states.	10% from other states
2.	Quality Placements	<ul style="list-style-type: none"> • Conducting core/ software training programmes • Introducing regular one credit courses for professional and soft skill development • Conducting value added / one credit courses • More number of assessment through online portal like Examly. • Identifying and inviting more number of reputed companies for placement 	<ul style="list-style-type: none"> • Minimum 4 programmes per department • One value added / one credit course per year • 85% of placement at institutional level/ and departmental level • Increase in average salary by 5% every year
3.	Student Participation in Innovation programmes	<ul style="list-style-type: none"> • Encouraging students to develop innovative projects • Providing fund to support project development • Organizing events like Exhibitions, Hackathons, etc. 	<ul style="list-style-type: none"> • Minimum 1 project per intake in each department • Minimum one project per student to be exhibited

4.	Competitive examination and Higher education	Organizing awareness/ training programmes to attend competitive exams	Minimum 20% of students should be enrolled in higher education in each department.
5.	Entrepreneurship development/ Promoting Start ups	Organizing awareness programmes and motivating students to participate in IIC and CiPD/BI activities	At least two per year

Research and Development

S.No	Goal	2021-2026 Strategy	Expected Outcome
1.	Grants in aid	<ul style="list-style-type: none"> • Focusing more on inter-disciplinary research. • Aiming to obtain funds from different funding agencies. • Faculty with Ph.D. qualification shall apply for a minimum of one funded research project per year. 	Minimum 15 Lakh grant per year from external funding agencies.
2.	Sponsored Research Programme	<ul style="list-style-type: none"> • Searching new and viable funding agencies to provide financial support for organizing FDP/Workshop and Conferences 	Minimum 25 FDP /workshop and 3 international conferences per year supported by external funding agency
3.	Publication (Journals and Books)	<ul style="list-style-type: none"> • Publishing research work in SCI/Scopus/UGC Care Journals. • Appreciating faculty with appropriate incentives for their journal publications. • Motivating faculty to publish books in renowned publications. 	<ul style="list-style-type: none"> • Average of one paper per faculty in SCI/ Scopus/ UGC Care Journals • Expected to reach 1000 publications. • Faculty with Ph.D. qualification shall publish minimum one SCI paper per year.
4.	Improvement of Citation Index	<ul style="list-style-type: none"> • Encouraging Quality publications to increase citation index. 	Average Scopus indexed citation should cross 2 per paper for last 3 year publications.
5.	Patent/IPR/ Copyright	<ul style="list-style-type: none"> • Providing Administrative support 	Based on the review of

		to all faculty/ staff/ students for filling of patents/ other IPR related activities <ul style="list-style-type: none"> • Innovative projects to be incubated by TBI with funding support from NEC/TBI and other TBI Schemes 	previous strategic plan achievements, it is planned to achieve 25 patents and 35 copyrights in this 5 years (2021- 2026)
6.	Centre of Excellence	<ul style="list-style-type: none"> • Planning and Establishing one centre of Excellence based on the core strength and expertise available in each department 	At least one Center of Excellence in each department.
7.	Research Centre	<ul style="list-style-type: none"> • Providing administrative support to eligible faculty members with PhD qualification based on their research performance. 	Minimum 3 scholar should register per year in each centre and at least 3 should get graduated every year.

Collaboration at National and International level

S.No	Goal	2021-2026 Strategy	Expected Outcome
1.	Promoting MoUs	Identifying more number of Industries/Higher Education Institutions at national and international level for collaborative works	<ul style="list-style-type: none"> • At least 2 new MoUs per year in every department • At least three activities (Expert lecture/ Industrial Training, Internship, Industrial Visit, Industrial project) from each MoU in every academic year
2.	Industrial Training for Faculty	Encouraging Faculty members to get industrial exposure for minimum 5 days	25% of faculty are expected to undergo industrial training per department per year
3.	Industrial Training for Students	Creating list of core industries and encouraging students for Industrial visit, In-Plant Training and Internship.	<ul style="list-style-type: none"> • At least 1 industrial visit per academic year. • At least 2 In plant training per student in four years. • 30% of students are expected to enroll for Industry internship.
4.	Student exchange programme	Sponsoring students to pursue education in reputed Institutions in India and abroad under student exchange programme	At least 1% of total students at institutional level in an academic year for minimum six months
5.	Faculty Exchange programme	Providing points in appraisal for faculty acting as resource persons.	Few faculty members at institutional level in an academic year
6.	Promoting Consultancy Activities	Identifying possible industrial consultancies and communicating with suitable industries	At least two consultancy activities per department in a year.

7.	Development of Sponsored Laboratories	Identifying the possible areas for developing sponsored laboratories.	At least one sponsored lab to be developed at institutional level in a year.
8.	Collaboration with Alumni	<ul style="list-style-type: none"> • Creating master list of alumni contact details for every batch in each department • Creating alumni chapters in major places in India and abroad. • Creating a master list of renowned alumni in various categories such as Industrial expert, Academic expert, renowned entrepreneur. • Conducting Alumni lectures 	<ul style="list-style-type: none"> • Master list of alumni contact details for every batch in each department should be available • Atleast two activity should be initiated • Minimum four alumni lectures per department in a year.

Community Engagement

S.No	Goal	2021-2026 Strategy	Expected Outcome
1.	Technology based projects for societal issues	Identification of societal issues to be solved using technology. Effective utilization of resources of TBI and departments	One project per department per year
2.	Educating the public	<ul style="list-style-type: none"> • More programmes useful for the community like healthcare, agriculture, technology issues, etc. to be conducted. • Short-term Courses/ Workshops/ Skill based programmes for Women, senior citizens, unemployed youth, etc. • The events may include: Rallies, fund raising programmes, programmes over the community radio 	About 5 programmes or events/year.
3.	Programmes for less privileged children/orphans	Motivation of faculty and students for fund generation for good cause. May be included in the association plan of all departments	2 events/ programmes/ contributions.

4.	Social Service (Blood donation, eye camp, health camp, environmental camp etc.)	Creating Awareness about Green Clean campus	Two health camp per year and Two environmental camp per year.
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