# **RESEARCH AND DEVELOPMENT CELL**

# **RESEARCH POLICY-SEC**

#### Vision:

The institutions envision is to become a leading centre for collobrative and innovative research.

#### Mission:

- Nurturing the research in inter deciplinary that enhances researchers to romote grands
- Promote shared responsibility ,infrastructure and ethical conduct of research and compliance.
- Promote research community to create a culture of high achievement in IPR.

## Aim and Objective of Sengunthar Engineering College Research& Development Centre

- Encourage Faculty and students to take up research
- Monitor activities of centre of excellence /Innovative Labs /Incubation centres
- Collaboration with foreign universities &Incentive for promote research
- Conducting research conclave

To promote the Research and Development in our institution a well drafted policy is scripted and followed .The research policy includes the promotion of research activity among the faculty members and involving the students to enhance the knowledge of recent developments and future hopes.

The broad objective of the research policy is to provide guide lines for undertaking high impact and context specific applied research and to promote innovation and consultancy activities through development of Research centre and centre of excellence and also to motivate the students to take up the extension activities.

- To implement this policy the Institution has to make efforts to promote research activities in the department level, Staff member level and Student level.
- To increase the facility to do consultancy works by department and staff members.
- To insist the students to take up extension activities by enriching their knowledge on serving the community and enhancing the social awareness.
- To establish Advisory Committee and Research Ethics committee in the institution to enhance research activities.
- To create the platform for the faculty members and students to promote research activities.
- To encourage the faculty members for R&D activities in the area of their specialization in a group.
- To motivate staff members and students to publish technical papers for publishing in Nationa/I International Conferences/Journals.
- To initiate, develop and coordinate research in newly emerging areas of science and engineering including all multi-disciplinary fields

- To assist faculty members of all the disciplines in engineering/science &Humanities in R&D activities for their professional growth
- To assist and motivate the faculty members in getting research grant from National and International agencies by submitting research projects.
- To inculcate relationships with reputed industries and agencies to know the requirement and expectation of industries.
- To provide seed money for the faculty members with the approval of Governing body or the Management peer team.
- To introduce new value added courses, training programs, workshops that promotes students towards innovation and entrepreneurship activities.
- To activate Incubation centres and see that the products so emanate march ahead towards commercialization.
- To create an ecosystem for innovations, foster & encourage entrepreneurship including incubation center, and other initiatives for creation and transfer of knowledge
- To motivate the faculty members to share their knowledge and expertise for betterment of society and promote consultancy and project works in industry and other sectors
- To facilitate community-oriented research initiatives and transfer the research findings for the social innovation and economic development of the community/society
- To award the faculty members and students and concerned departments who are all actively pursuing research works and consultancy works
- To arouse social consciousness of the students by providing them opportunities to work with and among the people.
- To develop an awareness and knowledge of social realities to have concern for the well being of the community and engage in creative and constructive social action.
- To identify the needs and problems of in and around community through student's extension activities.
- To identify and establish Industry-Institute Interaction through MOUs for longrelationships with the national and international academic institutions of higher learning and research institutions for widening the scope of research options and funding opportunities for the faculties and students

#### **Research Promotion Policy**

The institute provides necessary facilities and a promising environment to promote research, consultancy, innovation and intellectual capital

- All the faculty members are encouraged to conduct research in the focused as well as interdisciplinary areas of research
- Full administrative support is provided to all faculty members students for filling of patents/other IPR related activities
- The SEED money for internal projects is provided by the institution to encourage initial research related activities for all potential faculties

- Faculty members with Masters Degree qualification shall register for Ph.D. and are permitted to pursue Ph.D. under part time mode in the Anna University or any other reputed University
- Faculty member with Ph.D. qualification shall publish minimum one SCI paper per year and Faculty with Masters Degree qualification shall publish a minimum of two Scopus indexed paper's per year
- The UG and PG projects are research focused and could be published either in the SCI/SCIE/SSCI or Scopus indexed journals
- The Institution supports for organizing of high-level topical conferences/workshops/seminars
- Annual awards to the faculty members for the excellence in research grants, publications, outside world interaction is provided by the Institution
- Support for any other activity that can be justified by the faculty member to be of significance to carry out their research work will be provided

## Policy for Research and Consultancy Project

The Institute gives reward to faculty members for the Research and Consultancy Project works carried out in the respective year. This practice is introduced by the Management to impart research culture and to motivate faculty towards identifying new innovations.

### Terms & Conditions:

- The consultancy work will be carried out under the guidance of Head of the institution and Research and development cell.
- Faculty should motivate the students towards participation in industrial consultancy projects.

#### **Research Advisory Board Members**

SI.No	Name	Position	Designation
1	Dr.K.UMADEVI	Chairman	Principal
2	Dr.R.VIJAYA RANGAN	Secretary	Director Reseach
3	Dr.P.RAMESH KUMAR	Coordinator	Dean (R&D)
4	Mr.R.RAGUPATHY	Member	Joint Director DRDO
5	Dr.THIYAGARAJA GUPTA	Member	Deputy Controller of Patents &Designs
6	Dr.A.ATHIFSHAH	Member	CEO-ABE Semiconductors
7	Dr.S.ATHEENA MILAGI PANDIAN	Member	Founder&CEO Atheena Pandian Pvt.Ltd

# CODE OF ETHICS IN ACADEMIC RESEARCH

#### OBJECTIVE

- To provide Good Practice in Academic Research
- To give Academic Freedom, Integrity and Responsibility
- To authenticate Institutional Responsibilities
- To provide Training
- To illustrate Publication Practice and Authorship
- To explore Research Misconduct and Identifying Levels

# **RESEARCH COMMITTEE**

S.NO	Category	Name	Designation
1	Chairperson	Dr . K. Umadevi	Principal
2	Director Research	Dr.R.Vijaya Rangan	Director Research
		Dr. B. Sujatha	Dean (Academics)
			Dean (Research &
3	Deans	Dr. P. Rameshkumar	Development)
		Dr . K.L. Palanisamy	Dean ( Student Affairs)
		Dr.M.Seeni Rajan	Asst.Prof-Civil
		Dr. M.Sakthivel	Assoc. Prof. & HOD /CSE
4	Internal Members /HoDs	Dr C. Aarthi	Assoc. Prof. & HOD /ECE
		Mr.N.Thiru Senthil Adhiban	Assoc.Prof.&HOD/Mech

# **ETHICS COMMITTEE**

#### Tasks of the Ethics Committee

The ethical committee is responsible for creating and promoting transparent academic environment conducive to the application of research works

S.NO	Category	Name	Designation
1	Chairperson	DrK.Uma Devi	Principal
2	Director Research	Dr.R.Vijaya Rangan	Director Research
3	Dean	Dr.P.Ramesh Kumar	Dean(Research&
			Development)
	Internal Members	Mr.M.Soundar Rajan	Asst.Prof /Civil
		Dr.G.Jayamurugan	Assoc.Prof/CSE
		Mr.A.Rahul	Asst.Prof/ECE
4		Mrs.T.Gohila	Assoc.Prof./EEE
		Mr.N.Thiru Senthil	Asst.Prof./MECH
		Adhiban	
		Dr.K.Vignesh	Asst.Prof./PHY

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai – 600 025

# SCIENCE AND TECHNOLOGY PROJECT SCHEME (2021- 2022)

# AN EXPERIMENTAL INVESTIGATION AND IMPLEMENTATION OF DC POWER TO THE RESIDENCE OF INACCESSIBLE REGION

SUBMITTED BY Dr.K.UMADEVI Prof.P.JAGADEESWARAN



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS) (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956 NAAC Accredited with 'A' Grade TRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



# TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai – 600 025

# SCIENCE AND TECHNOLOGY PROJECT SCHEME (2021-2022)

1	Title of the Project	-	An experimental investigation and implementation of DC power to the residence of inaccessible region
2	Discipline under which the project is to be considered	:	Engineering & Technology
3	Name & Designation of the Principal Investigator	:	Dr.K.Umadevi Professor & Principal Department of Electrical and Electronics Engineering, Sengunthar Engineering College, Tiruchengode -637205
4	Postal Address of the Principal Investigator	:	Sengunthar Engineering College, Kumaramangalam Post, Tiruchengode, Namakkal Dist., Tamilnadu – 637205.
5	Name, Designation and address of Co-investigator if any	:	Mr.P.Jagadeeswaran Assistant Professor Department of Mechanical Engineering, Sengunthar Engineering College, Kumaramangalam Post, Tiruchengode, Namakkal Dist., Tamilnadu – 637205.
6	Contact Phone numbers (Office and residence) of PI & Co-PI along with, email id		Principal Investigator Office: 04288-255716 Residence: 86674-84320 email id: kumadevi.eee@scteng.co.in Co- Principal Investigator Office: 04288-255716. Residence:99420-47775 Email id:pjagadeeswaran.mech@scteng.co.in
7	Name of the Institution/Organization inwhich the project will be carried out		Sengunthar Engineering College, Kumaramangalam Post, Tiruchengode, Namakkal Dist., Tamilnadu –637205.
8	Name of other Institution(s) Organization(s) involved in the Project	:	No
9	Duration of the Project (Maximum 2 years)	:	2 Years
0	Total Cost of the Project Proposal (details to be furnished in the prescribed format)	:	5,00.000.00
1	An abstract, not exceeding one page describing the background, objectives, methodology & year wise budget	:	Annexure – I
2	Details of the project proposal including the State-of-the art of the subject, the work already done in this area in India or elsewhere, and defining clearly the objectives and methodology and year wisephasing of the project.	•	It is a newly innovative. This project is most useful in rural development areas. This system will help in reducing the cost of transmission and will also reduce the toxic waste produced power plants.

13	Brief bio-data of the Investigator(s)		Annexure – II
14	Facilities available at the Institution/organization to carry out the project		Annexure – III
5	Social relevance and usefulness of the project	•••	Annexure – IV
16	Whether the same Investigator(s) is / are receiving funds from any other agencies If yes, Title of the Project Agency Amount Details of projects already carried out, if there is any		Yes & Annexure – V

1. Shark good allow 2. Derever oglog 2007 Signature of the Investigator(s)

Place : Tiruchengode

Date: 09.03.2022

Signature of the Head of the Department

Signature of the Head of the Institution

#### Annexure - I

#### ckground

In today's society, energy has become an essential component in our daily lives. People consume vast ounts of energy every day, and unfortunately, Earth's limited resources are depleting because of this careless ergy consumption. Consumers waste these resources without thinking of the consequences 'because they y look 'at the present moment and not the future. The burning of fossil fuels is also affecting the environment a to the pollution it creates. If this continues, the environment's resources will eventually be fully depleted. iectives

Information on average electricity consumption in a developing country. The electricity consumption must be as low as possible.

To answer the question of efficiency in correspondence with different loads, DC household appliances should be studied. An inventory is required of all available DC appliances that may be ineeded in a rural environment

The power demand in houses-from household-appliances must be approximated in advance in order to design a low-voltage DC supply system.

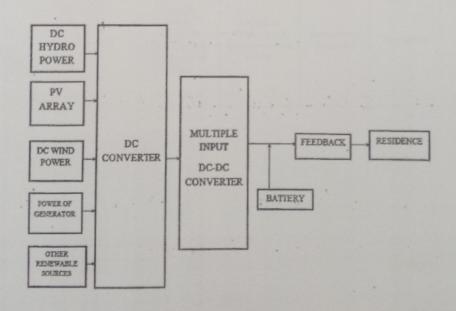
Using the approximated data. of the power demand, a low-voltage DC distribution system must be designed that is able to supply all DC appliances with sufficient quality. The distribution system must be designed to have minimal energy losses.

The DC low-voltage grid must fulfil some technical and safety requirements of the NEC codes for low-voltage installations.

#### thodology

The objective is to assess the energy efficiency of a -small-scale DC distribution system and to provide a neral framework -for the implementation. The main goal is to determine the main bus system, voltage that will nerate the highest system efficiency when accounting for: wire size, different loads, maximum of 1000 W power ut, and different distribution system implementation (ring or radial).

Our project, the DC Swing and solar powered umbrella, is only a small part of the DC House. The mate goal of the DC house is to function purely on DC energy.



#### echnical Details

The project involves attaching solar cells to an umbrella, and subsequently, it requires protecting the agile solar cells from even slight impacts which would otherwise damage them. The use of an umbrella as the ase for the solar panels has several advantages: it is readily available for purchase; it provides ample surface rea for mounting the panels, its design (and indeed its intended use) allows for easy exposure to sunlight, and it conveniently portable. The solar powered umbrella has the ancillary benefit of providing shade for the user, aking the outdoor experience more enjoyable while saving batteries. Additional solar collection capacity may be ided as the 'need arises and supplies w.e available. Extra capacity could be used to power more devices from e same umbrella or to make a panel to feed into a battery. The latter choice would more closely resemble a additional use of solar panels.

The DC house mainly targets audiences who do not have access to electricity such as people in eveloping countries. The DC house is equipped with many other DC sources such as solar panels, smart wall ug, air ventilation, Merry Go Round, and more. These all serve the main purpose of converting renewable hergy into electrical energy (DC). Like the DC swing, they all provide a clean source of energy with no emissions use of diminishing resources. The DC swing generates energy through anyone swinging on it, thus making it uman powered and very similar to that of a bicycle powered generator. 'Other components of the DC House also se wind, solar, and hydro powered machines. The DC House tries to be versatile by providing many different ays to generate electricity, which allows it to be useful anywhere as we can find sunlight; water, wind and umans anywhere on Earth.

#### ork plan

	1 <sup>st</sup> year			2 <sup>nd</sup> year				
Activity/ Milestone	PRODUCT DEVELOPMENT AND FINALIZED PERIOD							
	1- 4 M	5- 8 M	9- 12 M	13- 16 M	17- 20 M	21- 24 M		
An experimental investigation and implementation of DC Power to the residence of inaccessible region	Research Work related to Renewable Energy Sources including Literature Survey	Analyzing Various Renewable Energy Sources With practical values	Research Work about the standalone model	Selection of convertor	Simulation	Project Implementation		

# **Details of Budget Estimate**

(Amount in Rs.)

SI. No	Details	l Year		II	Year	Total
A	Salaries & WagesResearch fellow (@ Rs.10000/pm)		1,20,000.00	1	,20,000.00	2,40,000.00
В	i. Equipment (only project specific minor	Swing Set Equipment	20,000.00	Battery	20,000.00	
	equipment)	Pulley System Equipent	5,000.00	Solar panel	50,000.00	
		DC Generator	25,000.00	Boost Converter Components	20,000.00	
	Total		50,000.00		90,000.00	1,40,000.00
	ii. Details of major equipment / facilities expected to be available with institution			Annexure- III		
С	Consumables					
	Screws and Bolts		5,000.00			
	Chain and Swing	10,000.00				
	Compartment Box	15,000.00				
	Pulley System	15,000.00			10.000.00	
	Wood	15,000.00			10,000.00	
	Other Consumable		5,000.00		5,000.00	00.000.00
	Total	65,000.00			15,000.00	80,000.00
D	Travel		5,000.00		5,000.00	10,000.00
E	Total of A+B+C+D		2,40,000.00		2,30,000.00	4,70,000.00
F	Institutional overhead (Maximum of Rs.15000/per year)		15,0000.00		15,0000.00	30,000.00
	( YCGI )					

1. Model address 2. P. Sterning 12027 Signature of the Investigator(s)

Signature of the Head of the Institution



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#### List of the Members of the Governing Body

SI. No.	Members as per UGC Norms	Name of the Members
1	Chairperson	Thiru Jansons T.S. Natarajan President, Sengunthar Charitable Trust Tiruchengode – 637 205.
2	Management Member	<b>Prof. A. Baladhandapani</b> Secretary and Correspondent Sengunthar Charitable Trust Tiruchengode – 637 205.
3	Management Member	Mr. M.K. Dhanasekaran Treasurer, Sengunthar Charitable Trust Tiruchengode – 637 205.
4	Management Member	Mr. T. Shanmugasundaram Joint Secretary, Sengunthar Charitable Trust Tiruchengode – 637 205.
5	Management Member	Er. A.B. Madhan CEO, Sengunthar Institutions Tiruchengode – 637 205.
6	Management Member	Mr. T. Aravind Thirunavukkarasu Director Corporate Relations and Training Sengunthar Institutions Tiruchengode – 637 205.
7	UGC Nominee	Prof. M. R. Bhagwan Singh Professor of Mech. Engg. (Retd.) B.M.S College of Engineering Bull Temple Road, Basavangudi Benguluru – 560 041.
8	State Government Nominee	<b>Prof. M. Deepak Kumar</b> Assistant Professor Department of Metallurgical Engineering Government College of Engineering Salem – 636 011.





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9	University Nominee	Dr. S. Kalaiselvam Professor Department of Applied Science and Technology AC Tech Campus Anna University Chennai – 600 025.
10	Industrialist	Dr. R. Venkatesan Group Head & Scientist G Ocean Observation Systems National Institute of Ocean Technology Chennai – 600 100.
11	Academician	Dr. M. Umapathy Professor Department of Instrumentation and Control Engineering National Institute of Technology Tiruchirapalli – 620 015.
12	Teachers of the College	Dr. K.L. Palanisamy Dean (Student Affairs) cum Professor and Head Department of Science and Humanities Sengunthar Engineering College Tiruchengode – 637 205.
13	Teachers of the College	<b>Dr. B. Sujatha</b> Dean (Academics) & Professor Department of Computer Science and Engineering Sengunthar Engineering College Tiruchengode – 637 205.
14	Principal of the College (Ex – Officio)	Dr. K. Umadevi Principal Sengunthar Engineering College Tiruchengode – 637 205.

SEC - GBM-2





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27<sup>th</sup> May, 2022

### The Second Governing Body Meeting

#### AGENDA

#### Item No.

#### Points to be discussed

- Item 2.1 To Confirm the Minutes and Action taken report of 1<sup>st</sup> Governing Body Meeting held on 21.11.2020.
- Item 2.2 To review the academic and other important activities & events of the college for the academic year 2020 2021.
- Item 2.3 To review the academic and other important activities & events of the college for the academic year 2021- 2022.

### Item 2.4 Ratification of the following items:

- Item 2.4 (a) To ratify the minutes of the Third Board of Studies Meeting of all the departments held between 08.01.2021 and 09.01.2021.
- Item 2.4 (b) To ratify the minutes of the Third Academic Council Meeting held on 27.03.2021.
- Item 2.4 (c) To ratify the minutes of the Interim Board of Studies Meeting of the department of CSE held on 16.04.2021.
- Item 2.4 (d) To ratify the minutes of the Interim Academic Council Meeting held on 17.04.2021.
- Item 2.4 (e) To ratify the minutes of the Third Board of Studies Meeting of the department of MBA held on 11.09.2021.
- Item 2.4 (f) To ratify the minutes of the Fourth Board of Studies Meeting of Civil, CSE and ECE departments held on 18.09.2021, 20.09.2021 and 21.09.2021 respectively.
- Item 2.4 (g) To ratify the minutes of the Fourth Academic Council Meeting held on 12.10.2021.

SEC - GBM-2

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- Item 2.4 (h) To ratify the minutes of the Third Board of Studies Meeting of the Department of Science and Humanities held on 06.05.2022.
- Item 2.4 (i) To ratify the minutes of the Fourth Board of Studies Meeting of the Departments of EEE and MECH held between 06.05.2022 and 07.05.2022.
- Item 2.4 (j) To ratify the minutes of the Fifth Board of Studies Meeting of the Departments of Civil, CSE and ECE held between 05.05.2022 and 07.05.2022.
- Item 2.4 (k) To ratify the minutes of the Fifth Academic Council Meeting held on 13.05.2022.
- Item 2.4 (I) To ratify the minutes of Academic Steering Committee Meeting and IQAC Meeting.
- Item 2.4 (m) To ratify the minutes of the Second and the Third Finance Committee Meetings held on 28.06. 2021 and 18.02.2022 respectively.
- Item 2.5 Approval of the following items:
- Item 2.5 (a) To consider and approve the submission of application to AICTE and Anna University for reduction in intake of B.E. Electronics and Communications Engineering from 120 to 60 and to start a new course in UG Program B.E. Computer Science and Engineering (Cyber Security).
- Item 2.5 (b) To consider and approve the submission of application to AICTE and Anna University for Introduction of new course in UG Program B.E. Computer Science and Engineering (Cyber Security) with effect from 2022-2023 with an intake of 60.
- Item 2.5 (c) To consider and approve the Proposal for merging of Sengunthar College of Engineering (2629) with Sengunthar Engineering College (2617) which is functioning in the same campus as per the Guidelines prescribed in the AICTE Approval Process Handbook 2022 - 2023.

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- Item 2.5 (d) To present the End semester results published since the last meeting of
  - the Governing Body.
- Item 2.5 (e) To present the audited statement of accounts for the year 2019 2020.
- Item 2.5 (f) To present the audited statement of accounts for the year 2020 2021.
- Item 2.5 (g) To consider and approve the metrics for honouring / providing awards to the Outstanding Performance of the students and the faculty members.
- Item 2.5 (h) To present and discuss the strategic plan for the admissions.
- Item 2.5 (i) To present and discuss the activities carried out by the Placement and Training Cell.
- Item 2.5 (j) To present the funding proposal applied to various agencies.
- Item 2.5 (k) To consider and approve the scholarship offered to the students.
- Item 2.5 (I) To consider and approve the promotions, appointments and resignations made since the last meeting of the Governing Body.
- Item 2.6 Any other item with the permission of the Chairperson.

#### I. LIST OF MEMBERS PRESENT

The Second Governing Body Meeting of **SENGUNTHAR ENGINEERING COLLEGE** was held on 27.05.2022 (Friday) at 11.00 a.m. through blended (Online/Offline) mode for the convenience of the Governing Body Members. The following Members were attended the meeting.



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S. No.	Name of the Members	Position	Signature with Date
1	<b>Thiru Jansons T.S. Natarajan</b> President, Sengunthar Charitable Trust Tiruchengode – 637 205.	Chairperson	Kunst
2	<b>Prof. A. Baladhandapani</b> Secretary and Correspondent Sengunthar Charitable Trust Tiruchengode – 637 205.	Management Member	Jos ar w
3	<b>Mr. M.K. Dhanasekaran</b> Treasurer Sengunthar Charitable Trust Tiruchengode– 637 205.	Management Member	n Am
4	<b>Mr. T. Shanmugasundaram</b> Joint Secretary Sengunthar Charitable Trust Tiruchengode – 637 205.	Management Member	7. 2/1/3 distre meet
5	<b>Er. A.B. Madhan</b> CEO, Sengunthar Institutions Tiruchengode– 637 205.	Management Member	Judash 27/1/22
6	<b>Mr. T. Aravind Thirunavukkarasu</b> Director Corporate Relations and Training Sengunthar Institutions Tiruchengode– 637 205.	Management Member	J. Amp



ESTD	SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS) (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956 NAAC Accredited with 'A' Grade TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU							
7	Prof. M. R. Bhagwan Singh Professor of Mech. Engg. (Retd.) B.M.S College of Engineering Bull Temple Road, Basavangudi Benguluru – 560 041.	UGC Nominee	TR: 13/54. 27/05/22					
8	<b>Prof. M. Deepak Kumar</b> Assistant Professor Department of Metallurgical Engineering Government College of Engineering Salem – 636 011.	State Government Nominee	Attended through Google Heet					
9	<b>Dr. S. Kalaiselvam</b> Professor Department of Applied Science and Technology AC Tech Campus Anna University Chennai – 600 025.	University Nominee	Bartston					
10	<b>Dr. R. Venkatesan</b> Group Head & Scientist G Ocean Observation Systems National Institute of Ocean Technology Chennai - 600 100.	Industrialist	Attended through Gwogle Heet					
11	<b>Dr. M. Umapathy</b> Professor Department of Instrumentation and Control Engineering National Institute of Technology Tiruchirapalli – 620 015.	Academician	Attended through Google Meet					

SENGUA I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS) (Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai) Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956 NAAC Accredited with 'A' Grade TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU							
12	Dr. K.L. Palanisamy Dean (Student Affairs) cum Professor and Head Department of Science and Humanities Sengunthar Engineering College Tiruchengode – 637 205.	Teacher of the College	C 5000 29 15 722					
13	<b>Dr. B. Sujatha</b> Dean (Academics) & Professor Department of Computer Science and Engineering Sengunthar Engineering College Tiruchengode – 637 205.	Teacher of the College	1). 19 attorner					
14	<b>Dr. K. Umadevi</b> Principal Sengunthar Engineering College Tiruchengode – 637 205.	Principal of the College (Ex – Officio)	Atmets 7 Hos Kozz					

## II. MINUTES OF THE MEETING

The Second Governing Body Meeting of SENGUNTHAR ENGINEERING COLLEGE TIRUCHENGODE was held on 27<sup>th</sup> May, 2022, Friday at 11.00 a.m. through blended mode. Besides, the meeting was convened with all the members of the Governing Body. The Chairperson of the Governing Body **Thiru Jansons T.S. Natarajan welcomed** all the Members to the Governing Body and all the members introduced themselves.

Then, The Principal **Dr. K. Umadevi** briefed the agenda to be discussed in the Meeting. The items in the agenda were taken up for discussion one by one.

The following agenda items were discussed and resolutions were passed:

SEC - GBM-2

SENGUNTHAR Statue 2 Success



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Then, the Principal Dr. K. Umadevi briefed the agenda to be discussed in the Meeting.

The items in the agenda were taken up for discussion one by one.

The following agenda items were discussed and resolutions were passed:

Item 2.1 To Confirm the Minutes and Action taken report of 1<sup>st</sup> Governing Body Meeting held on 21.11.2020.

The Governing Body confirmed the Minutes and approved the Action Taken Report of first Governing Body Meeting held on 21.11.2020.

- Minutes of the 1<sup>st</sup> Governing Body Meeting held on 21.11.2020 as in Annexure - I a.
- Action taken report for the Minutes of the 1<sup>st</sup> Governing Body Meeting as in Annexure - I b.
- Item 2.2 To review the academic and other important activities & events of the college for the academic year 2020 – 2021.

The academic and other important activities & events activities of the College during the academic year 2020 – 2021 were presented through PowerPoint Presentation by the Principal and the same was approved by the Governing Body.

Item 2.3 To review the academic and other important activities & events of the college for the academic year 2021- 2022.

The academic and other important activities & events activities of the College during the academic year 2021 – 2022 were presented through Power Point Presentation by the Principal and the same was **approved by the Governing Body**.

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#### Item 2.4 Ratification of the following items.

Item 2.4(a) To ratify the minutes of the Third Board of Studies Meeting of all the departments held between 08.01.2021 and 09.01.2021.

The Governing Body reviewed the whole minutes of the Third Board of Studies Meeting of all the departments (Civil, CSE, ECE, EEE & MECH) held between 08.01.2021 and 09.01.2021 and Resolved to approve as in Annexure - II.

- Item 2.4(b) To ratify the minutes of the Third Academic Council Meeting held on 27.03.2021. The Governing Body reviewed the whole minutes of the Third Academic Council Meeting held on 27.03.2021 and Resolved to approve the same as in Annexure - III.
- Item 2.4(c) To ratify the minutes of the Interim Board of Studies Meeting of the department of CSE held on 16.04.2021.

The Governing Body reviewed the whole minutes of the Interim Board of Studies Meeting of the department of CSE held on 16.04.2021 and **Resolved to approve** the same as in Annexure - IV.

- Item 2.4(d) To ratify the minutes of the Interim Academic Council Meeting held on 17.04.2021. The Governing Body reviewed the whole minutes of the Interim Academic Council Meeting held on 17.04.2021 and Resolved to approve the same as in Annexure - V.
- Item 2.4(e) To ratify the minutes of the Third Board of Studies Meeting of the department of MBA held on 11.09.2021.

The Governing Body reviewed the whole minutes of the Third Board of Studies Meeting of the department of MBA held on 11.09.2021 and **Resolved to approve** the same as in Annexure - VI.

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Item 2.4 (f) To ratify the minutes of the Fourth Board of Studies Meeting of Civil, CSE and ECE departments held on 18.09.2021, 20.09.2021 and 21.09.2021 respectively.

The Governing Body reviewed the whole minutes of the Fourth Board of Studies Meeting of Civil, CSE and ECE departments held on 18.09.2021, 20.09.2021 and 21.09.2021 respectively and **Resolved to approve** the same as in Annexure - VII.

Item 2.4(g) To ratify the minutes of the Fourth Academic Council Meeting held on 12.10.2021.

The Governing Body reviewed the whole minutes of the Fourth Academic Council Meeting held on 12.10.2021 and **Resolved to approve** the same as in Annexure - VIII.

Item 2.4(h) To ratify the minutes of the Third Board of Studies Meeting of the Department of Science and Humanities held on 06.05.2022. The Governing Body reviewed the whole minutes of the Third Board of Studies Meeting of the Department of Science and Humanities held on 06.05.2022 and Resolved to approve the same as in Annexure - IX.

- Item 2.4(i) To ratify the minutes of the Fourth Board of Studies Meeting of the Departments of EEE and MECH held between 06.05.2022 and 07.05.2022. The Governing Body reviewed the whole minutes of the Fourth Board of Studies Meeting of the Departments of EEE and MECH held between 06.05.2022 and 07.05.2022 and Resolved to approve the same as in Annexure X.
- Item 2.4(j) To ratify the minutes of the Fifth Board of Studies Meeting of the departments of Civil, CSE and ECE held between 05.05.2022 and 07.05.2022.

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The Governing Body reviewed the whole minutes of the Fifth Board of Studies Meeting of the departments of Civil, CSE and ECE held between 05.05.2022 and 07.05.2022 and Resolved to approve the same as in Annexure - XI.

- Item 2.4(k) To ratify the minutes of the Fifth Academic Council Meeting held on 13.05.2022. The Governing Body reviewed the whole minutes of the Fifth Academic Council Meeting held on 13.05.2022 and Resolved to approve the same as in Annexure -XII.
- Item 2.4(I) To ratify the minutes of Academic Steering Committee Meeting and IQAC Meeting. The Governing Body reviewed the whole minutes of the Academic Steering Committee Meeting and the IQAC Meeting and Resolved to approve the same as in Annexure - XIII.
- Item 2.4(m) To ratify the minutes of the Second and the Third Finance Committee Meetings held on 28.06. 2021 and 18.02.2022 respectively.

The Governing Body reviewed the whole minutes of the Second and the Third Finance Committee Meetings held on 28.06. 2021 and 18.02.2022 respectively and **Resolved to approve** the same as in Annexure - XIV.

Item 2.5 Approval of the following items:

Item 2.5(a) To consider and approve the submission of application to AICTE and Anna University for reduction in intake of B.E. Electronics and Communication Engineering from 120 to 60 and to start a new course in UG Program B.E. Computer Science and Engineering (Cyber Security).

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After a thorough discussion, the **Governing Body unanimously approved** to submit an application to AICTE and Anna University for reduction in intake of B.E. Electronics and Communication Engineering from 120 to 60 as per the following table:

SI.No.	Name of the Course	Existing Intake	Applying for reduction in Intake
1.	B.E. Electronics and Communication Engineering	120	60

**Resolved to** approve to start a new course in UG Program B.E. Computer Science and Engineering (Cyber Security).

Item 2.5(b) To consider and approve the submission of application to AICTE and Anna University for Introduction of new course in UG Program B.E. Computer Science and Engineering (Cyber Security) with effect from 2022-2023 with an intake of 60. After a thorough discussion, the **Governing Body unanimously approved** to submit an application to AICTE and Anna University for Introduction of new course in UG Program B.E. Computer Science and Engineering (Cyber Security) with effect from 2022-2023 with an intake of 60.

This comes into effect from the students admitted from the academic year 2022- 2023 onwards.

Name of the Course			Intake	Off	ered	by	
B.E.	Computer	Science	and	60	Department	of	Computer
Engineering (Cyber Security)		60	Science and Engineering				





Item 2.5(c) To consider and approve the Proposal for merging of Sengunthar College of Engineering (2629) with Sengunthar Engineering College (2617) which is functioning in the same campus as per the Guidelines prescribed in the AICTE Approval Process Handbook 2022 - 2023.

After a thorough discussion, the **Governing Body unanimously approved** the merger of Sengunthar College of Engineering (2629) with Sengunthar Engineering College (2617) which is functioning in the same campus as per the Guidelines prescribed in the AICTE Approval Process Handbook 2022 - 2023.

Item 2.5(d) To present the End Semester Results published since the last meeting of the Governing Body.

Resolved to approve the End Semester Results presented by the principal as per the following tables:

#### Result - NOV/ DEC - 2020 Examinations

SI. No.	Course	I SEM / I Yr	III SEM / II Yr	V SEM / III Yr	VII SEM / IV Yr	Total
1	B.E. (Civil)	33.33% (2/6)	0% (0/1)	55.56% (5/9)	31.25% (5/16)	37.50% (12/32)
2	B.E. (CSE)	72.88% (43/59)	81.48% (22/27)	43.18% (19/44)	54.35% (25/46)	61.93% (109/176)
3	B.E. (EEE)	75.00% (15/20)	80.0% (8/10)	50.0% (13/26)	63.83% (30/47)	64.08% (66/103)
4	B.E. (ECE)	78.26% (18/23)	85.71% (12/14)	51.52% (17/33)	42.86% (24/56)	56.35% (71/126)

Overall Pass Percentage for Regular Subjects - UG

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5	B.E. (Mech)	43.75% (7/16)	42.86% (6/14)	52.08% (25/48)	49.02% (25/51)	48.84% (63/129)
	Total	68.55% (85/124)	72.72% (48/66)	49.38% (79/160)	50.46% (109/216)	56.71% (321/566)

#### Result - NOV / DEC - 2020 Examinations

#### **Overall Pass Percentage for Regular Subjects - PG**

SI. No.	Course	I SEM / I Yr	III SEM / II Yr	Total
1	МВА	51.85% (14/27)	25.00% (1/4)	48.39% (15/31)
2	M.E. (CSE)	75.00% (6/8)	0.00% (0/1)	66.67% (6/9)
3	M.E. (Struct. Engg.)	77.78% (7/9)	87.50% (7/8)	82.35% (14/17)
4	M.E. (VLSI Design)	50.00% (2/4)	- ,	50.00% (2/4)
5	Ph.D. (Course Work)	100% (1/1)	1	100% (1/1)
	Total	60.42% (29/48)	64.29% (9/14)	61.29% (38/62)

### Result - APRIL / MAY - 2021 Examinations

#### **Overall Pass Percentage for Regular Subjects - UG**

SI. No.	Course	II SEM / I Yr	IV SEM / II Yr	VI SEM / III Yr	VIII SEM / IV Yr	Total
1	B.E. (Civil)	83.33% (5/6)	0% (0/1)	100% (9/9)	100 % (16 /16 )	93.75% (30/32)

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84.48% 92.86% 97.67% 100 % 93.10% 2 B.E. (CSE) (49/58)(45 / 45) (26/28)(42/43)(162/174)90.00% 80.0% 100 % 96.15% 95.14% 3 B.E. (EEE) (18/20)(8/10) (25/26)(47 /47) (98/103) 95.83% 100% 100% 100 % 99.21% 4 B.E. (ECE) (23/24)(56/56) (14/14)(33/33)(126/127)73.33% 76.92% 89.58% 98.03 % 89.76% 5 B.E. (Mech) (11/15)(43/48)(50/51)(114/127)(10/13)94.14% 86.18% 87.88% 95.60% 99.53% Total (106/123)(58/66)(152/159)(214/215)(530/563)

#### Result - APRIL / MAY - 2021 Examinations

#### **Overall Pass Percentage for Regular Subjects – PG**

SI.No.	Course	II SEM / I Yr	IV SEM/ II Yr	Total
1	МВА	84.61% (22/26)	100% (4/4)	86.66% (26/30)
2	M.E. (CSE)	87.50% (7/8)	100% (1/1)	88.88%(8/9)
3	M.E. (Struct. Engg.)	88.88% (8/9)	100% (8/8)	94.11% (16/17)
4	M.E. (VLSI Design)	100% (3/3)		100%(3/3)
5	Ph.D. (Course Work)	100% (1/1)		100%(1/1)
	Total	87.23% (41/47)	100% (13/13)	90% (54/60)

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#### Result - NOV / DEC - 2021 Examinations

#### **Overall Pass Percentage for Regular Subjects – UG**

SI. No.	Course	III SEM / II Yr	V SEM / III Yr	VII SEM / IV Yr	Total
1	B.E. (Civil)	46.15% (12/26)	NIL	100% (9/9)	60.00% (21/35)
2	B.E. (CSE)	77.94% (53/68)	89.28 % (25/28)	95.23 % (40/42)	85.50% (118/138)
3	B.E. (EEE)	50.00% (28/56)	81.81 % (9/11)	92.30 % (24/26)	65.59% (61/93)
4	B.E. (ECE)	76.92 % (30/39)	100% (14/14)	100% (33/33)	89.53% (77/86)
5	B.E. (Mech)	64.70 % (22/34)	83.33 % (10/12)	83.33 % (44/45)	83.51% (76/91)
	Total	65.02% (145/223)	89.23% (58/65)	96.77% (150/155)	79.68% (353/443)

Item 2.5(e) To present the audited statement of accounts for the year 2019 - 2020.

**Resolved to approve** the audited statement of accounts for the year 2019 – 2020 as in Annexure - XV.

- Item 2.5(f) To present the audited statement of accounts for the year 2020 2021.
   Resolved to approve the audited statement of accounts for the year 2020 2021 as in Annexure XVI.
- Item 2.5(g) To consider and approve the metrics for honoring / providing awards to the Outstanding Performance of the students and the faculty members.

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**Resolved to approve** the metrics for honoring / providing awards to the Outstanding Performance of the students and the faculty members as in Annexure -XVII.

Item 2.5(h) To present and discuss the strategic plan for the admissions.

Resolved to approve strategic plan for the admissions as in Annexure - XVIII.

Item 2.5(i) To present and discuss the activities carried out by the Placement and Training Cell. Resolved to approve the activities carried out by the Placement and Training Cell as in Annexure – XIX.

Item 2.5(j) To present the funding proposal applied to various agencies.

Governing Body appreciated the Chairperson, the Correspondent, the Principal and the Faculty Members for their sturdy efforts in the submission of funding proposals to various agencies as in Annexure – XX.

Item 2.5(k) To consider and approve the scholarship offered to the students.

Governing Body appreciated the Management for their moral support and magnanimous financial assistance to the meritorious and the economically backward students (Sports) and **Resolved to approve** the same as in Annexure – XXI.

Item 2.5(I) To consider and approve the promotions, appointments and resignations made since the last meeting of the Governing Body.

**Resolved to approve** the promotions, appointments and resignations made since the last meeting of the Governing Body as in Annexure – XXII.

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Item 2.6 Any other item with the permission of the Chairperson

The following suggestions were given by the Governing Body members:

The honourable UGC Nominee, **Prof. M. R. Bhagwan Singh**, Professor of Mechanical Engineering (Retd.), B.M.S College of Engineering, Benguluru, put forward the following suggestions:

- 2.6.1 He appreciated the introduction of Minor Degree/ Honours as per the new guidelines given by AICTE under 2019 Regulations to encourage the students for admission in core branches and also to improve placement.
- 2.6.2 That the faculty members be encouraged to complete Ph.D., within five years of registered time by utilizing the financial assistance.
- 2.6.3 That the admission be improved through proper advertisement regarding the introduction of Minor Degree/ Honours.
- 2.6.4 That the Research and Development activities be improved to encourage the students towards Industry Interaction.

The State Government Nominee, Prof. M. Deepak Kumar, Assistant Professor, Department of Metallurgical Engineering, Government College of Engineering, Salem advised

- 2.6.5 That the NCC & NSS activities be increased in the fourth coming years.
- 2.6.6 Appreciated the steps taken by the college for starting new

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The University Nominee, **Dr. S. Kalaiselvam**, Professor, Department of Applied Science and Technology, AC Tech Campus, Anna University, Chennai, suggested

- 2.6.7 That the Students Feedback be included in the Best Teacher Award beneath Faculty Appraisal form.
- 2.6.8 That the funding proposals be submitted to various agencies.
- 2.6.9 That the Patent be filed under Institution Address.

Dr. R. Venkatesan, Group Head & Scientist G, Ocean Observation Systems, National Institute of Ocean Technology, Chennai, suggested to enhance the following activities:

2.6.10 I. Actively involve with Professional society IEEE.
II. Conduction of SDG special programs.
III. Conduction of International Conference.
IV. Industry Institution Partnership Cell.

Dr. M. Umapathy, Professor, Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirapalli, suggested

2.6.11. That the placement activities be improved.

Dr. K. Umadevi, Principal thanked all the members for their active participation and valuable suggestions on various points discussed in the meeting.

The Meeting was concluded by 2.00 p.m.

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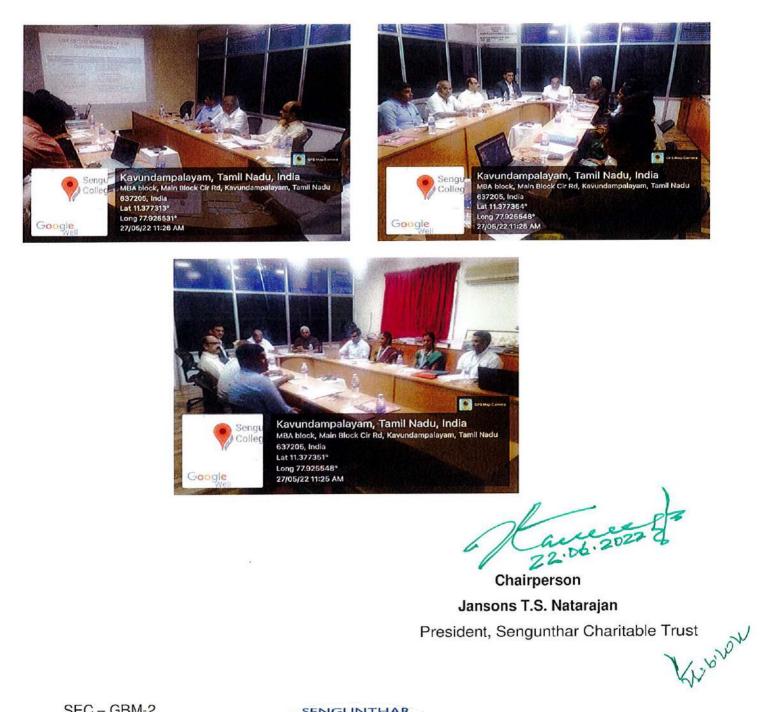


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The Audio and Video of the whole Meeting has been Recorded.

## **Glimpses of the Meeting**



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### **Action Taken**

# Report for the First Governing Body Minutes of the Meeting

S. No.	Description	Action Taken
1	That the faculty members be encouraged to pursue Ph.D., in part time and carry out research work by providing financial assistance and awards.	Implemented
2	That the Curriculum and syllabi (from first semester to final semester) pertaining to Regulations 2019 for all the Programmes be framed in the next Board of Studies Meeting.	Implemented
3	That more Open / Common Elective Subjects are to be offered for selection from the emerging fields to enhance the employability for the students.	Implemented
4	The ECE and ECE with Specialization of the new emerging and industry demand course viz., IoT, Data Science, Artificial Intelligence, etc., in UG Programme shall be offered with effect from 2021-2022.	Being processed for implementation from the year 2022-23
5	That new emerging courses be introduced in the forthcoming years to attract the students' community in order to improve the admissions.	Being processed for implementation from the year 2022-23
6	That the students and the faculty members be motivated to foster the research and innovation by finding out solutions for local issues of their native places.	Implemented
7	That the revenue and expenditure details be included from the forth coming meeting.	Implemented

2.06.2022

Chairperson Jansons T.S. Natarajan, President, N. S. Sengunthar Charitable Trust.