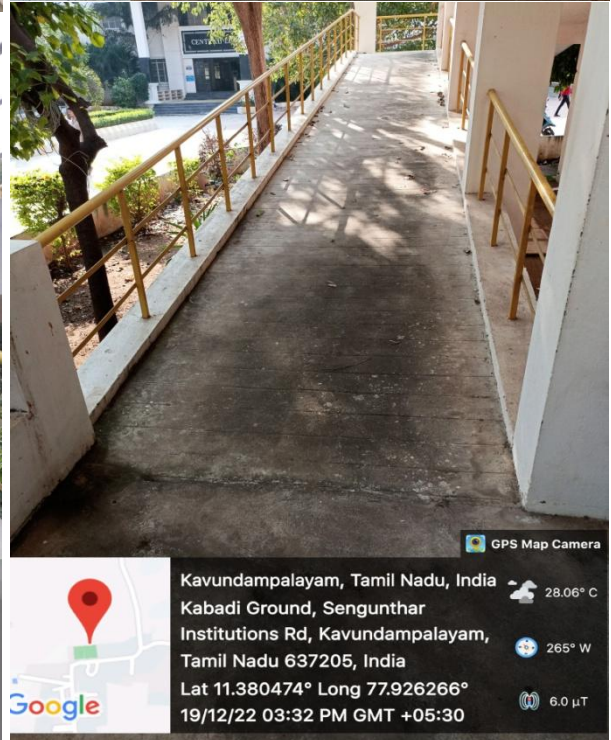
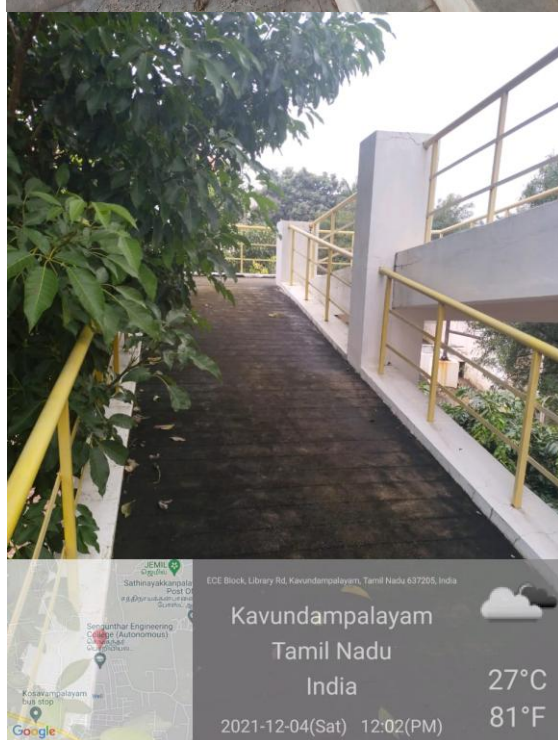


### 7.1.7 - The Institution has a disabled-friendly and barrier-free environment:

- Ramps/lifts for easy access to classrooms and centres

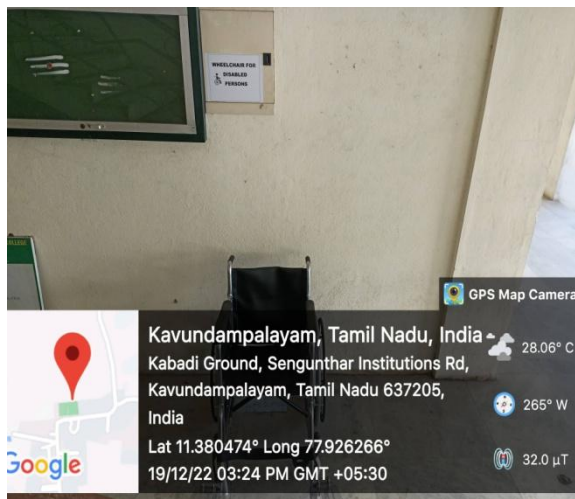
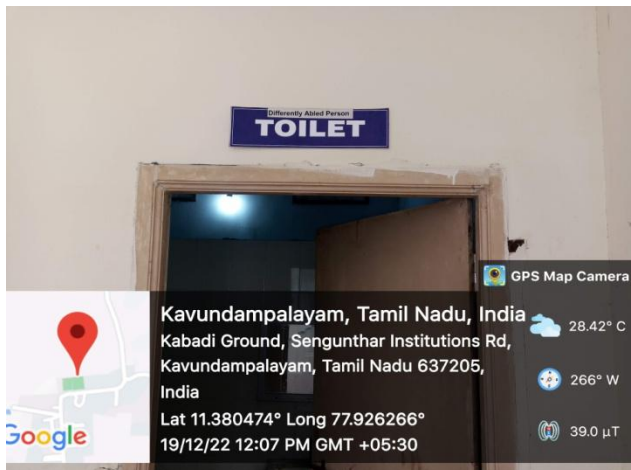
Ramp leading to Classrooms and Laboratories



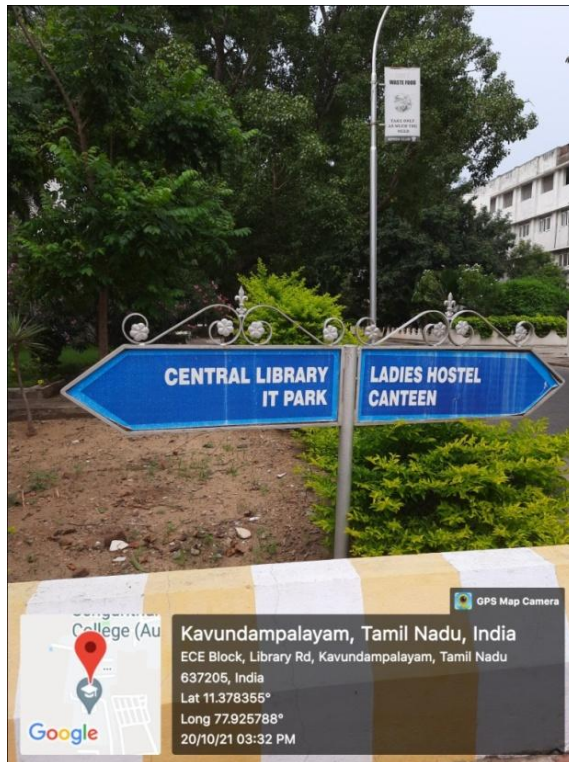


- **Disabled-friendly washrooms**

Disabled-friendly washrooms are available in the ground floor.



- **Signage including tactile path lights, display boards and signposts**  
 Direction signposts and floor details are displayed in the appropriate places in the campus.





- **Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.**

The Facility of scribe/reader and other assistance is provided to the persons with disabilities as per the Guidelines from Anna University and Government of India.



# 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



## Policy Statements for Disabled-Friendly, Barrier Free Environment

SEC's policy recognizes that persons with disabilities are valuable human resource for the institution and seeks to create an environment that provides equal opportunities, protection of their rights and full participation in the academic environment.

SEC will ensure that provide all technical support in the endeavour of every Person with Disability in the campus achieve full emancipation and self esteem by equalization of opportunities through creation of enabling environment, so that the students getting admitted in our institution with disability is benefitted from their untapped talent and contribution.

SEC will ensure the promotion of innovative and adaptive technology in order to create and facilitate access to social and economic rehabilitation for students with disabilities.

All the stakeholders of the college should consider the opportunity to serve the differently abled students as a privilege.

Scribes should be allowed to the differently abled students on request.

At the time of admission, a Helpdesk should be set apart for the differently abled students seeking admission.

It is the duty of all the staff and students to offer help to differently abled students without waiting to be requested to.

A barrier free environment should be provided so that the differently abled students can move about without obstacles anywhere in the campus.

### **Disabilities (Divyangjan) accessible website:**

Screen Reader Website: (Free Access)

[http://imaic.nic.in/screen\\_reader](http://imaic.nic.in/screen_reader)

### 7.1.7 Details of Software for Providing Assistance to disabled person

Free Screen Reader can be downloaded from the following website.

**Disabilities (Divyangjan) accessible website:**

Screen Reader Website: (Free Access)

[http://imaic.nic.in/screen\\_reader](http://imaic.nic.in/screen_reader)

| SCREEN READER                    | WEBSITE   | FREE / COMMERCIAL |
|----------------------------------|---|-------------------|
| Non Visual Desktop Access (NVDA) | <a href="http://www.nvda-project.org/">http://www.nvda-project.org/</a>           | Free              |
| System Access To Go              | <a href="http://www.satogo.com/">http://www.satogo.com/</a>                       | Free              |
| Thunder                          | <a href="http://www.webbie.org.uk/thunder/">http://www.webbie.org.uk/thunder/</a> | Free              |

The screen-reading software (NVDA) is installed in the library and all the departments for blind students.



**Screen Shot showing the NVDA is installed in the Library**

# ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

ACADEMIC YEAR: 2021 - 2022

Academic and Administrative Audit (AAA) of Sengunthar Engineering College (Autonomous) for academic year 2021 - 2022 was conducted on 24.02.2023.

A comprehensive audit related to academics and administrative offices, units & facilities was conducted by an external team comprise of following experts to ensure that the processes are in place

1. **Chairman (Academic and Administrative Audit)** : **Dr.P.S.Mayurappriyan**
2. **Member 1(Academic Audit)** : **Dr.K.lakshmi**
3. **Member 2 (Administrative Audit)** : **Mr.S.Sree Harrish**

## INSTITUTIONAL DETAILS

|   |  |
|---|--|
| <b>Name of Institution</b>                    | Sengunthar Engineering College                               |
| <b>Address</b>                                | Kosavmpalayam, Kumaramangalam Post,<br>Tiruchengode - 637205 |
| <b>Year of inception</b>                      | 2004   |
| <b>AISHE Code</b>                             | C - 36966  |
| <b>Autonomous/affiliated</b>                  | Autonomous   |
| <b>If autonomous, Year of conferment</b>      | 24.06.2019   |
| <b>Autonomous status valid up to</b>          | 07.04.2024   |
| <b>Financial Status</b>                       | UGC 2f and 12 (B) / Self-financing                           |
| <b>Type of Institution</b>                    | Co-education   |
| <b>Name of the Head of the Institution</b>    | Dr.R.Satish Kumar  |
| <b>Name of the IQAC Co-ordinator/Director</b> | Mr.A.B.Madhan  |
| <b>Website Address</b>                        | scteng.co.in   |

## ACCREDITATION DETAILS

### NAAC

| <b>CYCLE</b> | <b>GRADE</b> | <b>CGPA</b> | <b>YEAR</b> | <b>VALID UPTO</b> |
|--------------|--------------|-------------|-------------|-------------------|
| Cycle 1      | A            | 3.06        | 2015        | 14/11/2020        |
| Cycle 2      | A            | 3.06        | 2020        | 31/12/2024        |

**NBA**

| NAME OF PROGRAM | NO. OF CYCLES | MARKS SCORED<br>IN RECENT<br>ACCREDITATION | NO. OF YEARS &<br>VALID UPTO |
|-----------------|---------------|--|------------------------------|
| Nil             |               |  |                              |

**GENERAL CHECK - LIST - I**

| DESCRIPTION                                    | YES/NO | REMARKS |
|--|--------|---------|
| Availability of Academic Calendar              | YES    | ✓       |
| Availability of IQAC meeting minutes           | YES    | ✓       |
| Was the AQAR placed before the statutory body? | YES    | ✓       |
| Was the institutional data submitted to AISHE? | YES    | ✓       |
| Institutional Preparedness for NEP 2020        | YES    | ✓       |

**GENERAL CHECK - LIST - II**

| DESCRIPTION                              | RESPONSE   | REMARKS |
|--|------------|---------|
| No. of Programmes offered                | 09         | ✓       |
| No. of students on Roll                  | 726        | ✓       |
| Number of outgoing / final year students | 198        | ✓       |
| Number of full-time teachers             | 140        | ✓       |
| Number of sanctioned posts               | 140        | ✓       |
| Total number of classrooms               | 40         | ✓       |
| Total number of seminar halls            | 13         | ✓       |
| Total number of computers on campus      | 804        | ✓       |
| Total expenditure, excluding salary      | 31,05,3546 | ✓       |



## OVERALL ASSESSMENT AND COMMENTS

### ACCOLADES

#### 1. CURRICULAR ASPECTS (TEACHING AND LEARNING)

##### Strengths

- Supportive management, committed faculty & staff with creative and innovative ideas, motivated students.
- Implementation of Outcome based Educational process.
- Strong focus on Excellence in Education, Research and Promotion of Innovation & Entrepreneurship.
- Periodic Project Review meetings to encourage the students to work on real-life solutions/applications.
- Periodical meetings of the departments to examine the past and plan for the future activities regarding the student developments to meet the new and emerging challenges of the ever-changing society.
- Motivation to do NPTEL or SWAYAM courses which upgrade their knowledge and provide a platform for lifelong learning.
- Excellent Industry-Institution Interaction which in turn very much useful for upgrading the curriculum and syllabus based on current industry needs.
- Value added courses; Life Skills and Employability Enhancement courses are included as a part of the curriculum for improving the Employability, Entrepreneurship, and Skill development activities.
- Well established Library with adequate books and Journals based on curriculum requirement. , Digital Library with subscription to E-Journals, E-learning resources like NPTEL and E-books.
- Cordial and harmonious relationship with all stake-holders which provides valuable feedback for updating the curriculum based on current trends.

##### WEAKNESSES

- The industry – institution interface can be enhanced further.
- Establishment of Laboratories in collaboration with industry must be enhanced.
- Implementing the Innovative Teaching Strategies and Outcome based education as per bloom's Taxonomy
- Need to work towards development of more international collaborations.

- Developing strong alumni base for improving employability, Entrepreneurship and Skill development activities.
- Lack of communication skills. So more number of Skill based Practical training courses must be incorporated in the curriculum.

### **OPPORTUNITIES**

- Good Industry-Institution Interaction provides Knowledge updation in current trends through MOU's, Practical Trainings and Internships.
- The curriculum is developed to promote global competencies via communication skills, soft skills, computer skills and latest technologies which will enhance the employability opportunity to the students.
- The Curriculum helps the students to focus towards research by carrying out real time innovative projects, technical paper writings and publications in journals and conferences.
- Strengthening interaction with Alumni to facilitate better connectivity with the industry.
- Periodical Revision of Curriculum and Syllabi based on the feedback from Stakeholders and current industry needs for the betterment of students.
- Considering the socio – economic background of the students there is a scope to focus on pedagogy for seamless transfer of knowledge from the faculty to the students.
- Entrepreneurship Cell to incubate and encourage students with innovative ideas to develop the entrepreneurship skills among the students.

### **CHALLENGES**

- Lack of basic skills on some domains among the students creates a problem in the progress of additional improvements in the curriculum.
- Enhancing the communication and employability skills of the students has become a major challenge in the present day industry requirements.
- Necessary measures are needed to review the course content in order to make them relevant to the present day industry requirements.
- Innovations in curriculum and teaching pedagogy to place students at par with global competitions.
- Lack of interest among the students to pursue research as career.

### **TEACHING LEARNING**

#### **Strengths**

- Providing extra classes for slow learners
- Well-planned academic execution

- Regular monitoring on every faculty member to enhance the teaching.
- CIA and Model Examinations were conducted to improve the quality of learning
- Frequent guest lectures, webinars conducted
- Mentor-Mentee (1:15) system followed to motivate the students in all aspects
- Encourage the students to study advancement courses

#### **Weaknesses**

- Extra coaching for competitive exams
- Due to economic position, students are not willing to pursue higher studies
- Improving ICT technology for teaching learning methodology.
- High Dropout rates

#### **Opportunities**

- Chances are there to learn more new courses through NPTEL and MOOC.
- Students can earn more credits
- Employment Opportunities

#### **Challenges**

- Academia Industry Collaboration

#### **Suggestions for improvements (if any)**

- Value added course I & II which are included as a part of the curriculum, may be taken as a separate, additional course for curriculum enrichment
- Internship may be included as a part of the curriculum
- Core Courses may be listed additionally along with the employability, entrepreneurship, skill development categories of courses offered
- Need improvement in student enrollment
- Laboratory courses to be included under experiential learning category
- Rubric based assessment to be followed for each and every experiment
- Individual faculty profile to be added in consolidated faculty details

## **2. EXAMINATIONS AND EVALUATION SYSTEM**

#### **Strengths**

- A special vigilance squad for frisking the students before entering into the examination hall has deputed to curtail malpractice.
- As dummy number is used instead of register number, the evaluators remained unaware of the identity of the candidate whose answer papers they were evaluating.

- The provision of Pre evaluation meeting and an answer key ensured a uniform marking pattern.
- Continuous Internal Assessment Examinations and End Semester Question Papers were framed as per the revised Blooms Taxonomy to ensure the quality of the examination.
- Publishing the results immediately after the Result passing board meeting.
- The Third Continuous Internal Assessment for Non-credit courses were conducted and evaluated by External and Internal Examiner(s).

#### **Weaknesses**

- We are yet to give feedback to the evaluators on their evaluation.

#### **Opportunities**

- Evaluation of Project works need to be done by Industrial Experts to commercialize the ideas of the students.
- Examinations may be conducted as Activity Based Evaluation towards the improvement of the divergent skills of the students, if the course demands.
- Installation of CCTV system for all the examination halls.

#### **Challenges**

- As the university implies new terms and conditions for the conduction of the Examination, Assessment procedures, Allocation of Internal Marks, etc. we the autonomous college could not execute the innovative evaluation system.

#### **Suggestions for improvements (if any)**

- Answer scripts may be made available for students verification before publishing the results

### **3. RESEARCH PROMOTION & DEVELOPMENT**

#### **Strengths**

- Strong focus on Excellence in Education, Research and Promotion of Innovation & Entrepreneurship
- Approved MSME Host Institution Business Incubation (HI/BI) centre present.
- Book publication by faculty members.
- Journal & Conference publication by faculty and students.
- Extension activities carried out by our college.
- Innovation cell activities
- AICTE,UGC fund applied by Faculty members

- International conference conducted by our college
- Student's participation in various project contests in other organizations
- Dr.A.P.J. Abdul Kalam Innovative Project contest was organized every year

#### **Weaknesses**

- Research centre establishment for individual department
- MOU activities can be increased
- PG student's publication can be enhanced
- PG programs do not attract highly talented students

#### **Opportunities**

- Improvement in the quality of research by increasing interactions with industry and R&D organizations
- Strengthening interaction with Alumni to facilitate better connectivity with the industry.
- Creation of training facilities to improve research capabilities of faculty.
- Accreditation of the eligible UG & PG Programs

#### **Challenges**

- Anna university policy regarding research centre establishment for individual departments and supervisor restrictions for guiding only affiliated institutions.
- Lack of interest among bright Engineers to pursue research/teaching as career
- Enhancing the communication and employability skills of the students has become a major challenge in the present day industry requirements.
- Balancing teaching quality with research

#### **Suggestions for improvements (if any)**

- Seed money per project may be increased
- Consultancy activities to be improved
- No of Quality publications to be increased

## **4. INFRASTRUCTURE**

### **Strengths**

- Its infrastructure comprising separate blocks for each department along with central library, seminar halls, Alumni building, Sports ,Gym, Separate boys and Ladies hostel, Dinning area ,UPS and genset, IT park, Transport, Cafeteria, separate dining area for teaching and nonteaching staff members as well as students. Eco-friendly campus with in-house canteen facilities.

- Well embedded in regional industry and corporations. Close relationships with local companies. Well stocked library with NPTEL facilities and various e-journals.
- Infrastructure meets the academic research and student support needs. The college is second to none with the state-of-the-art laboratories, well equipped library and universal access to Wi-Fi facility.
- The students are involved to carry out industry specific IoT and robotics related projects in laboratories. In house faculty members will act as mentors along with the experts from the respective organizations stationed on the campus. Well established credit based curriculum and examination system. ATM facilities inside the campus.

#### **Weaknesses**

- Under utilization of the infrastructure, ICT Classrooms repair.
- Official student webpage for college, club activities & events.

#### **Opportunities**

- Placement cell and Communication lab developed knowledge for students to make them competitive in the current job environment. Opportunities for improvement in centre of excellence for all department.
- Provide more challenging and innovative research opportunities.
- To establish Skill Development centre.

#### **Challenges**

- Change in demand for the programmes is being a challenge to budget the funds for infrastructure planning and effective utilization.

#### **Suggestions for improvements (if any)**

- Internet bandwidth has to be increased
- Maintenance policy has to be framed
- Centre of Excellence in Emerging area to be established

## **5. IQAC**

### **Strengths**

- University affiliation with 10 years of educational legacy along with NAAC "A" grade accreditation.
- IQAC Periodically audited by auditor from reputed institutions
- Supportive management, committed faculty & staff with creative and innovative ideas, motivated students.

- Sengunthar Charitable Trust Scholarship for 90 % of the students.
- Implementation of Outcome based educational process.
- Strong focus on Excellence in Education, Research and Promotion of Innovation & Entrepreneurship.
- Periodic Project Review meetings to encourage the students to work on real-life solutions/applications.
- Excellent Industry-Institution Interaction which in turn very much useful for upgrading the curriculum and syllabus based on current industry needs.
- Value added courses; Life Skills and Employability Enhancement courses are included as a part of the curriculum for improving the Employability, Entrepreneurship, and Skill development activities.
- Conversion of Bio-Degradable waste into Bio-Fertilizers by Vermi composting. Effective function of Rain Water Harvesting.
- Learning flexibility through extracurricular activities like sports, NCC and NSS.
- Celebration of National and International Commemorative Days

#### **Weaknesses**

- Collaborative laboratories with industry to enhance industry institute interaction.
- Strengthening Alumni Association and their Contribution to the institution through Entrepreneurship and Skill development activities.
- Advanced ICT tools for implementation of innovative teaching learning methodology.
- Students' awareness on GATE and other competitive examinations.
- Upgrading the curriculum and syllabus based on GATE.
- Implementation of waste water treatment and Biogas plant facility.

#### **Opportunities**

- Considering the socio - economic background of the students there is a scope to focus on pedagogy for seamless transfer of knowledge from the faculty to the students.
- Entrepreneurship Cell to incubate and encourage students with innovative ideas to develop the entrepreneurship skills among the students.
- Motivating students to upgrade their knowledge through MOOC courses like NPTEL or SWAYAM which facilitates lifelong learning.
- Upgrade the laboratories with sophisticated equipment and software tools to train students, support research and consultancy.

- Enhancing Energy Conservation by new policies and mythologies
- More facility for Disabled person
- Better policy and innovative methods for Waste Management

### **Challenges**

- Limited resource funding from national and international funding agencies to pursue cutting edge research and consultancy.
- Enhancing the communication and employability skills of the students has become a major challenge in the present-day industry demand.
- Measures to review the course content in order to make them relevant to the present - day industry requirements.
- Innovations in curriculum and teaching pedagogy to place students at par with global competitions.
- Lack of interest among the students to pursue research as career.

### **Suggestions for improvements (if any)**

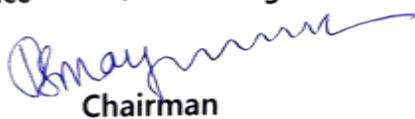
- IQAC Quality policy shall be displayed in IQAC
- IQAC initiatives to be improved

## **6. OVERALL RECCOMENDATIONS FOR IMPROVEMENT**

- Overall ambitious is good
- Maintenance of Documents and records are in place
- Examination reforms can be modified
- R&D activities shall be improved
- Awareness about OBE among faculty members to be inculcated
- Best practices and Institutional Distinctiveness to be identified
- ICT based teaching and Learning to be enhanced

**Date** : 24.02.2023

**Place** : Sengunthar Engineering College

  
Chairman

**Dr.P.S.Mayurappriyan**

  
Member

**Dr.K.Lakshmi**

**Professor / E&I and Head Accreditation**

**Kumaraguru College of Technology**

**Coimbatore**

**Professor /EEE and IQAC Dy.Coordinator**

**KSR College of Engineering**

**Tiruchengode**



# ACADEMIC AUDIT REPORT OF DEPARTMENTS

## DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering had completed and submitted the audit proforma prepared by IQAC. Head of the Department Dr.T.Ayyappan comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### Brief description of the department

The Department of Civil Engineering was started in the academic year 2004-2005 and Master of Structural Engineering was started in the academic year 2011-2013 . The Department offers separate block with spacious class rooms, Conference and seminar hall for guest lectures. The department has well qualified faculty members and specialized in various areas of Civil Engineering. The department is established with well equipped laboratories. The students have access to state of the all laboratories and workshops, which enable them to face the challenging needs of the industries and research institutions. Civil Engineering Department has two Doctorates and One faculty going to complete Ph.D. The department offers value added courses apart from the regular subjects which enable the students acquire marketable skills. The department Library is well equipped and consists of 243 numbers of books in various disciplines of Civil Engineering. We offer high quality teaching and practical training, which is best among the institutions offering Civil Engineering.

### Academic Laboratories:

- Strength of Materials Laboratory
- Survey Laboratory
- Fluid Mechanics Laboratory
- Structural Laboratory
- Soil Mechanics Laboratory
- Environmental Engineering Laboratory
- CADD Laboratory
- Concrete and Highway Engineering Laboratory

Academic Year: 2021-2022

| S.No | Name of the Student | Company Name   | Designation                                  | Salary/Annum |
|------|---------------------|--|--|--------------|
| 1    | Sandhiya A          | Eagle Rebar Engineering Services India Private Limited | Junior Trainee Detailer                      | 1,44,000     |
| 2.   | Kondappan.A         | Eagle Rebar Engineering Services India Private Limited | Junior Trainee Detailer                      | 1,44,000     |
| 3    | Deepika J           | Sakthivel and Associates                               | Structural Designer                          | 1,20,000     |
| 4.   | Jothika. B          | Adept Knowledge Technologies Pvt Ltd                   | Data Technician                              | 2,40,000     |
| 5.   | Ramya.R             | IDFC First Bharat Limited                              | Assistant - Relationship Officer-Group Loans | 1,75,000     |
| 6    | Sathyamoorthi S     | VNV Builders (P) Ltd.                                  | Assistant Engineer                           | 1,38,000     |
| 7    | Sabarisan J         | VNV Builders (P) Ltd.                                  | Assistant Engineer                           | 1,38,000     |

#### Observations

- Laboratories are maintained in neat and good manner.

#### Suggestion for improvements

- Layout and safety precautions shall be included in laboratories.

Date: 24.02.2023

Place: Tiruchengode



Chairman

Dr. P. S. MAJURAPPRIYAN  
PROFESSOR/E&I AND HEAD OF ACCREDITATION  
KUMARAGURU COLLEGE OF TECHNOLOGY  
COIMBATORE



Member

• Dr. K. LAKSHMI  
PROFESSOR/EEE & IQAC D,  
COORDINATOR  
KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENTS

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Department of **COMPUTER SCIENCE AND ENGINEERING** had completed and submitted the audit proforma prepared by IQAC. Head of the Department Dr.M.SAKTHIVEL comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### **Brief description of the department**

The Department of Computer Science and Engineering was established in the year 2001. The Department has got permanent affiliation of Anna University, Chennai. The department has well experienced and highly qualified Professors with four Ph.D. holders. The Department is equipped with excellent laboratory infrastructure and state-of-the-art equipment to explore the technological challenges that meet the industry needs. The department conducts various education and skill development programs periodically to enhance technical knowledge of students to make them industry ready. The Department offers the value added courses in emerging technologies to meet out the needs of the Industry.

The main objective of the department is to create the most conducive environment for quality academic and research oriented undergraduate and postgraduate education in computer science and engineering and prepare the students with professional skills for a globalised technological society and orient them towards serving the society and nation.

## Observations

- Documents and files are maintained as per the format.
- Laboratory Equipment and experiment details are displayed

## Suggestions for improvements

- Students /Faculty achievements shall be displayed in notice board.
- Computer Systems shall be upgraded by latest configuration.
- Centre of Excellence may be established based on recent domain.

Date: 24.02.2023

Place: Tiruchengode



Chairman

D. P. S. MAYURAPPRIYAN  
PROFESSOR / EBI AND HEAD OF ACCREDITATION  
KUMARAGURU COLLEGE OF TECHNOLOGY  
COIMBATORE



Member

Dy. K. LAKSHMI  
PROFESSOR / EEE & IQAC Dy. CO-ORDINATOR  
KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENT ( 2021-2022)

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department of **ELECTRONICS AND COMMUNICATION ENGINEERING** had completed and submitted the audit proforma prepared by IQAC. Head of the Department **Dr.C.AARTHI** comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### **Brief description of the department**

The ECE department was started in the year 2001. The Department has qualified and experienced faculty members, well-equipped laboratories and library. The undergraduate and post graduate programmes of the department of Electronics and Communication impart solid technical background and research capabilities among the students which help them to excel in their respective fields. The department has adequate infrastructure with spacious class rooms. The courses offered are updated regularly to keep pace with the growing demands of the industry and the research community. The laboratories consist of all the latest equipments to meet the dynamic changes in the curriculum. The laboratory courses give students considerable experience in working closely with others in real world situations and solving open ended design problems. The core members of faculty have rich academic experience and wide Industrial R&D exposure tie-up with Texas instruments laboratories which is established for minimizing the gap between academy and industry.

### **Observations:**

- Documents and records are maintained as per the given list.
- Lab records and utilization records are properly maintained.

### **Suggestions for improvements:**

- Faculty Journal and text book publications may be displayed in the department.
- Student's projects may be displayed in the centre of excellence.

Date: 24.02.2023

Place: Tiruchengode



**Chairman**

Dr. P. S. MAJURAPPRIYAN  
PROFESSOR / E&I AND HEAD OF ACCREDITATION  
KUMARAGURU COLLEGE OF TECHNOLOGY  
COIMBATORE



**Member**  
Dr. K. LAKSHMI  
PROFESSOR / EEE AND  
IQAC Dy. COORDINATOR  
KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENTS

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Department of Electrical and Electronics Engineering had completed and submitted the audit proforma prepared by IQAC. Head of the Department Dr.K.Umadevi comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### **Brief description of the department**

The Department of Electrical and Electronics Engineering was started in the year 2001. The Department offers Under-Graduate program in Electrical and Electronics Engineering with an intake of 90 students in the year 2003. The Department has got permanent affiliation of Anna University, Chennai from the academic year 2015 - 2016. The department has well experienced Professors along with it has excellent infrastructural facilities. The department has recognized Research Center of Anna University. There are about 20 Faculty members in the department. Among them 2 are Ph.D. holders and 3 of them are pursuing Ph.D. The department conducts various education and skill up program periodically to enhance technical knowledge of students to make them industry ready. The main objective of the department is to create employable and entrepreneurial engineers with equipped academic excellence, positive attitude, interpersonal skills and leadership qualities which are useful to the profession, society and nation. Totally 872 students were graduated from the department, the students are working in reputed companies like TNEB, Voltech, Robert Bosch, L&T Constructions, Vedanta Ltd, Indian Railways, Foxconn, CTS, TCS, Infosys, Microsoft, Wipro, Axis Bank etc.,.

## Observations

## Suggestions for improvements

Faculty members publications to be increased.

Centre of excellence is to be established

Date:24.02.2023

Place:Tiruchengode



**Chairman**

Dr. P. S. MAJURAPPRIYAN  
PROFESSOR/E&I AND HEAD OF ACCREDITATION  
KUMARAGURU COLLEGE OF TECHNOLOGY  
COIMBATORE



**Member**

Dr. K. LAKSHMI  
PROFESSOR/EEE AND Dy. CO-ORDINATOR  
KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENTS

## DEPARTMENT OF MECHANICAL ENGINEERING

Department of Mechanical Engineering had completed and submitted the audit proforma prepared by IQAC. Head of the Department N.Thiru Senthil Adhiban comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### **Brief description of the Department:**

The department of Mechanical Engineering has grown by leaps and bounds right from its inception with the primary objective of providing world-class education. From the very beginning, the Department has been offering excellent infrastructure facilities to meet the burgeoning demands of the industry. The department offers excellent academic environment with highly motivated faculty that inspires the students to develop their technical skills. The departments have consistently served as the genesis of engineers of excellent caliber in the field of mechanical engineering for five decades.

The Department is established in 2004. The Bachelor degree in Mechanical Engineering is a 4 year course. The Department offers separate block with spacious class rooms, Conference and seminar hall for guest lectures. The students have access to state of the all laboratories and workshops, which enable them to face the challenging needs of the industries and research institutions. The students are provided enough opportunities to specialize in the areas of CAD, CAM, and MECHATRONICS etc.

The department offers value added courses apart from the regular subjects which enable the students acquire marketable skills. The value added courses offered are Pro-E, ANSYS, IDEAS, CATIA, UNIGRAPHIX, HYPERWORKS, AUTOCAD, Mechanical Desktop (MDT), Master CAM, Edge CAM VR-TURN, and MAT LAB.

It has 9 Laboratories and a workshop for imparting practical training to the students. These Laboratories and Workshop will help students to undertake project works, design and build machines and equipments.

Academic Laboratories are:

- Dynamics Laboratory
- Heat Transfer Laboratory
- Thermal Engineering Laboratory
- Fluid Mechanics and Machinery Laboratory
- Manufacturing Technology I & II Laboratory
- Strength of Materials Laboratory
- Metrology and measurements Laboratory



- CAD Laboratory
- CAM Laboratory
- Mechatronics Laboratory
- Workshops

Graduates of Mechanical Engineering Programme will:

- To impart research and industry based quality education for developing innovative communication engineers.
- To Endeavour students with the necessary skills and practical experience to fulfill their professional duties and responsibilities in a teamwork.
- Practice Mechanical Engineering in the general stems of design, manufacture, and service and allied engineering sectors.

Maximum intake: 60 students

#### **INTERNET FACILITY**

- High – speed RF wireless tower with 2 mbps connectivity,
- 24 hours internet facility.

#### **DEPARTMENT LIBRARY**

The department Library has 750 titles and 2500 volumes of books apart from the main library. In addition, leading Technical journals and magazines are also available in the library.

#### **TEACHING AIDS**

Apart from the traditional teaching methods, the classes are conducted with multimedia projector, videos, animation images and OHPs.

#### **INDUSTRY - INSTITUTION INTERACTION**

The Department gives Regular In-plant Training (IPT) to students to improve their skills. Industrial Visits are conducted during winter and summer vacations. Seminars and classes by Guest lectures and workshops by experts from industries are arranged by the department to improve the student's industrial skills as well as practical knowledge.

#### **E-MAIL**

mechhod@scteng.co.in

#### **ASSOCIATION (2007-2008):**

Mechanical engineering association was started in the year of 2007 and ongoing till date.

The motto of organizing student centric activities such as expert lecturer, organizing talks for students opting for higher studies and preparing for competitive exams, quizzes, product and project demonstration, social as well as non technical activities.

Mechanical engineering student association with the title of "GEAR MECH".

Every year the association organizes the national level student's technical symposium, seminar, conference, guest lecturer, and workshop to enrich the students understanding in the concerning field.

## Placement Details

Academic Year: 2021-2022

| S.No | Name of the Student | Class    | Company Name             | Designation      | Salary/Annum |
|------|---------------------|----------|--------------------------|------------------|--------------|
| 1    | Aravindh.B          | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 2    | Karthick.S          | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 3    | Jeevanandham.V      | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 4    | Keerthivasan.A.M    | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 5    | Kishorekumar.R      | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 6    | Sukel Ahemed.M      | IV -Year | Team detailing Solutions | Trainee Detailer | 1,80,000     |
| 7    | Siva Sankari V      | IV -Year | Onward Technologies      | Trainee Engineer | 3,00,000     |
| 8    | Vaishnavi L         | IV -Year | Onward Technologies      | Trainee Engineer | 3,00,000     |

### Session 2015-16

- In the academic year 2015 - 2016 totally 49 Students were placed in various companies.10 Students in JBM Automotives,Hosur. 4 students in Team Detailing Solution, Chennai. 08 Students in Tenneco,Hosur.07 Students in NCR,Chennai.01 Student in Tech Mahendra,Chennai. 03 Students in Perfect Engineering, Coimbatore. 05 Students in Rajshriya Automotives, Hosur. 06 Students in Unique Shell Private Ltd,Coimbatore. 05 students in Zealous service, Chennai.

#### **Session 2014-15**

- In the academic year 2014 – 2015 totally 39 Students were placed in various companies. 5 students in Team Detailing Solution, Chennai. 6 Students in Rajshriya Automotives, Hosur. 24 students in Zealous service, Chennai.

#### **Session 2013-14**

- In the academic year 2013 – 2014 totally 41 Students were placed in various companies. Seven students in Team Detailing Solution, Chennai. Two students in Sysmac Engineering, Chennai. 19 students in JBM Group of Companies, Hosur. 11 students were selected by the following companies: Summits Hygronics Pvt. Ltd., Coimbatore, India Metal Works, Chennai, Aqua Sab, Coimbatore, Velumani Engineering Works, Coimbatore, Maruthi Suzuki, Kerala and Madurai, Bharat Benz, Chennai, Corefab Projects Pvt. Ltd., Chattisgarh, Vinayaga Electro Alloy, Perundurai, TVS, Chennai and Elite, Karur.

#### **Session 2012-13**

- In the academic year 2012 – 2013 totally 31 Students were placed in various companies. Four students in Team detailing Solution, Chennai. Four students in Sakthi Auto Components Ltd., Pallagoundanpalayam, Perundurai, Two students in Voltech Pvt. Ltd., Chennai. Two students in L & T. Two students in Vee Technologies, Chennai. 15 students were selected by the following companies: Nano PV Voltech Solar Pvt. Ltd., Chennai, Ganesh Engineering, Coimbatore, Zephir-Aerospace, Bangalore, Jayam Engineering Works, Empire Cooling Solutions Pvt. Ltd., Bangalore, Adroit Die Casting, Hosur,
- Dhonadhi Hitech Innovations, Chennai, L & T Valves Ltd., Kanchipuram, Common Wealth Tile Factory, Puthiyara, Calicut, L.G. Balakrishnan & Bros Ltd., Maharastra, Ozone Engineering Solutions, Chennai, TVS Sundaram Clyton Ltd., Hosur, Amten Engineering Pvt. Ltd., Coimbatore, Shri Chamundi Baking Equipments, Kumbakonam and Baker Huges, Mumbai.

#### **Session 2011-12**

- In the academic year 2011 – 2012 totally 22 Students were placed in various companies. Three students in Team Detailing Solution, Chennai. 3 students in S & T Engineering Pvt. Ltd., Pune. Four students in Edac, Chennai. 2 students in Cooper Boscman, Pondicherry. Eight students were selected by the following companies: S & T Engineering Pvt. Ltd., Bangalore, Kone Elevators, Chennai, New Tech Rubber Pvt. Ltd., Hosur, Precision Equipments, Chennai, Texmo Precision Castings, Coimbatore and Aqua SUB, Coimbatore.

#### **Session 2010-11**

- In the academic year 2010 – 2011 totally 21 Students were placed in various companies. Five students in V.K.C India Pvt. Ltd., Mysore. Two students in Sakthi Auto Components Pvt. Ltd., Perundurai. Two students in Black Cat, Oman and 2 students in Karafi National, Dubai. Ten students were selected by the following companies: Daimler Constructions, Dubai, Ranganathar

Valves, Coimbatore, Redarc, Riyath, Oriental Cements Ltd., Sithappur, Andhra Cements Ltd., Revathi Equipment Pvt. Ltd., Coimbatore, Almaria, Oman, Mech Tech, Chennai, G.V. Technologies, Bangalore and TVS, Hosur.

#### Session 2009 – 10

- In the academic year 2009 – 2010 totally 27 Students were placed in various companies. Seven students in Sri Gowrish CNC Pvt. Ltd., Seven students in Unicorn Engineers, Edac, Chennai. Two students in Sutherland Global Services and 2 students in Chitram Engineering Pvt. Ltd., Three students were selected by the following companies: Venus Boilers Pvt. Ltd., Cooper Boscman and VAC Design Engineering Pvt. Ltd...

#### Observation

- Students are going for regular In-plant Training (IPT) to improve their skills.

#### Suggestions for improvement

- Guest lectures and workshops by experts from industries may be arranged by the department to improve the student's industrial skills.
- Faculty journal publications may be improved.

Date : 24.02.2023

Place: Tiruchengode



Chairman

Dr. P.S. MAYURAPPRIYAN

PROFESSOR / EBI AND HEAD OF ACCREDITATION

KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE



Member

Dr. K. LAKSHMI

PROFESSOR / EEE AND Dy. COORDINATOR

KSR COLLEGE OF ENGINEERING

TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENT ( 2021-2022)

## DEPARTMENT OF SCIENCE & HUMANITIES

Department of Science & Humanities had completed and submitted the audit proforma prepared by IQAC. Head of the Department Dr.K.L.Palanisamy comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### **Brief description of the department**

- The Department of Science and Humanities which comprises of English, Physics, chemistry and Mathematics was established in the year 2001.
- The Department is functioning with doctorates and highly qualified faculty members with vast experience.
- The Department is equipped with excellent infrastructure and state-of-the-art equipment to explore the technological challenges.
- The department is conducting several programmes to cater the needs of the budding engineers in the current scenario.
- The department celebrates every year National Science Day on Feb 28 and encourages our students to cater their talents.
- One of the programmes Science and Humanities Association (SAHAA), a National Level, Students, Technical Symposium was initiated in the year of 2008, and organize every year for the holistic development of the budding engineers to change their perceptions and broaden their horizons.
- Every year this forum paves way to the fresh blooming first year students of our college and other colleges to rediscover novel ideas with the new technical development.

### **Observations**


- The documents pertaining to the Academic activities have been maintained.
- A Few samples of records related to the criteria I & II have been verified.

### **Suggestions for improvements**

- Orientation Program may be conducted with more external experts.
- Mentor – Mentee Counseling period may be incorporated in Time Table

**Date: 24.02.2023**

**Place: Tiruchengode**



**Chairman**

Dr.P.S.MAJURAPPRIYAN  
PROFESSOR/EBI AND HEAD OF ACCREDITATION  
KUMARAGURE COLLEGE OF TECHNOLOGY  
COIMBATORE



**Member**

Dr.K.LAKSHMI  
PROFESSOR/EEE AND  
Dy CO ORDINATOR  
KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

# ACADEMIC AUDIT REPORT OF DEPARTMENTS

## DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Department of Master of Business Administration had completed and submitted the audit proforma prepared by IQAC. Head of the Department Mrs.S.Uma Maheswari comprehensively presented about academic credentials of the department followed by discussion with team of faculty members and verification and validation of relevant documents. Based on the audit process following observations are made along with suggestions for improvements are furnished.

### Brief description of the department

Department was established in 2005 – 2006 academic year with 60 intake. It is affiliated to Anna University and approved by AICTE, New Delhi. The department has qualified and experienced faculty members and well established library facilities. The department has adequate infrastructure facilities with spacious classrooms. Syllabus updated based on current requirements in industry. Offer specialization in emerging areas. Our students secured 2 Gold medals and 10 University ranks from Anna University. We signed MOU with EEDISSIA. We do consultancy work for external organizations. Programs organized in regular interval with academic and corporate experts. Motivate the students to participate in co-curricular activities.

### Observations

Academic documents maintained properly

Lab utilization are properly maintained

### Suggestions for improvements

Enhance the faculty publication

Student's internship shall be improved

Date: 24.02.2023

Place: Sengunthar Engineering College (Autonomous)



Chairman

Dr. P.S. MAJURAPPRIYAN

PROFESSOR /E & I AND HEAD OF ACCREDITATION

KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE



Member

Dr. K. LAKSHMI

PROFESSOR /E & I AND

DY. CO-ORDINATOR

KSR COLLEGE OF ENGINEERING  
TIRUCHENGODE

**ADMINISTRATIVE AUDIT REPORT**

Following facilities and processes were audited for continuous improvement and our observations and recommendations are included.

**(I) INFRASTRUCTURE****(a) Libraries****Observations:**

- The library has 38,095 text books and reference books. There are 7 department libraries from which students and faculty members can borrow and refer books.
- The library has introduced e-book/e-journal facility which is most welcomed by the students.
- Library provides printing and photocopying facilities.
- The available space and seat are adequate in the General library considering the students' strength.

**Recommendations:**

- RFID can be introduced in the library system for better management of library resources including collection of fees for late returning of books.
- Book depository can be introduced.

**(b) Canteen****Observations:**

- Canteen is spacious with adequate infrastructure. We observed that the canteen is maintained with good hygiene and follow certain green practices in reducing waste and avoiding single use plastic items.

**Recommendations:**

- Awareness program can be conducted for the students to separate the wastes between wet and dry and degradable and non-degradable which makes a huge impact on waste management and the recycling process becomes easier.



**(c) Sports Facilities**

**Observations:**

- Qualified students are provided education with concessional fees.
- All kind of expenses incurred for off campus matches are entirely borne by the management.
- If such students are unable to appear for exams while representing the college in sports events, they are permitted to write the exam as supplementary candidates.

**Recommendations:**

- Computerized system can be implemented to record stock.

**(d) ICT Facilities**

**Observations:**

- The entire college campus is covered with 24 surveillance cameras thereby ensuring the safety of the students.
- Classrooms and seminar halls are ICT enabled.

**Recommendations:**

- Media center and lecture capturing system can be strengthened in the college. Further E-Content development is encouraged.
- Internet facility with firewall system can be given to the students to access e-resources.

**(e) Medical Facilities**

**Observations:**

- A medical clinic is available inside the campus with necessary facilities.
- A doctor visits the clinic everyday to treat the ill students.
- First-aid facilities are available.





**(f) Clubs and societies****Observations:**

- The students actively participate in the Programs are organized by all the clubs such as SAE, Smart Manufacturing Club, Industrial Training Club, Road Safety Club, Electrical Clinic, Coin Club, Save Water Club, IQ Club, Coding Club, Cyber Club, SIM, CAP, SFM etc., The activities are planned to ensure and impart the societal values and community services.

**(II) IQAC**

- A proactive IQAC organized various development programs for the faculty and non-teaching staff, which include Faculty Development Programs, seminars, conferences and workshops for Senior, Middle aged and fresh entrants and program for Non- teaching staff.
- Induction program for the students is organized every year where, the fresher's to know about the existing system, policy of the institution, curriculum and working environment.
- Feedback is obtained from the participants of all Faculty Development Programs and suggestions are considered for improvement. Besides feedback is regularly collected from all stakeholders in every semester and the action taken appropriately.

**(III) SAFETY****(a) Electrical Safety****Observations:**

- All light fixtures, sockets, switches are in good condition and working.
- Earthing/grounding system is proper.

**Recommendations:**

- Wiring method needs to be reviewed to ensure it is up to date and suitable for current use.
- Extension cords can be reduced by adding permanent fittings if required.

**(b) Fire Safety****Observations:**

- Suitable fire detection and firefighting facilities are available.



**Recommendations:**

- Upkeep and testing of all fire safety equipment and precautions can be done periodically.
- Training, information and instruction to all students and staff about fire safety can be conducted periodically.

**(c) FSSI**

**Observation:**

- The institute has applied for FSSI license.

**(d) Structural Stability**

**Observation:**

- The buildings are stable and were certified by the respective authorities.

**(IV) ASSET VERIFICATION**

**(a) Equipment and Stock Verification**

**Observation:**

- Manual registers are maintained for equipment.

**Recommendations:**

- Computerized system can be implemented to record all the equipment moments.
- Chart register for plant and machinery can be introduced to ensure preventive and scheduled maintenance is done periodically.

**(b) Consumables Stock Verification**

**Observation:**

- Manual registers are maintained for consumables.

**Recommendations:**

- Computerized system can be implemented to record all stock.
- Periodical review of the stock register can be done to avoid scarce situation and place purchase orders in advance.

**(c) Stationery Verification**

**Observation:**

- Manual registers are maintained to record the stock.

**Recommendations:**

- Computerized system can be implemented to record all stock.



- Pin card system and storage racks can be brought in to organize and store the stationery items (such as notebooks and paper bundles) properly.
- Periodical review of the stock register can be done to avoid scarce situation and place purchase orders in advance.

**(d) Library Stock Verification****Observations:**

- The library has 38,095 text books and reference books.
- The institute has paid amounts to renew 115 journals for the year 2022-23.

**Recommendations:**

- Computerized system can be implemented to record all stock.

**(e) Sports Stock Verification****Observation:**

- Manual registers are maintained to record the stock.

**Recommendations:**

- Computerized system can be implemented.

**(V) SUSTAINABILITY AUDIT****(a) Green Audit**

Green audit committee lead by Dr.S.R.Sivarasu has conducted Green Audit and issued certificate on 17<sup>th</sup> December 2021. As per the certificate issued by the committee, everything is in order and no major observations found.

**(b) Energy Audit**

Energy audit committee lead by Dr.S.R.Sivarasu has conducted Energy Audit and issued certificate on 17<sup>th</sup> December 2021. As per the certificate issued by the committee, everything is in order and no major observations found.

**(VI) PROCESS AUDIT****(a) Administrative Office****Observations:**

- Office maintains register for inward and outward of the letter correspondence made related to all matters.



# SARAVANAN & SREE HARRISH

Chartered Accountants

19/5, Chinnammal Street, K K Pudur,  
Saibaba Colony, Coimbatore - 641038.

No.3, 2<sup>nd</sup> Floor, KPN Colony,  
3<sup>rd</sup> Street extn, Tirupur - 641601.

- Students admission, termination and graduation documents are maintained by the administration office.

## (b) Accounts Section (Internal & external audit)

### Observations:

- Accounts sections records all the receipts and payments and overviewed by experts.
- Accounts department also co-ordinates with administration department and internal and external audit committees to complete the audit.

### Recommendation:

- Day to day updation of books of accounts should be improved.

For Saravanan & Sree Harrish  
Chartered Accountants  
Firm Registration No: 022030S



S Sree Harrish

Partner

Membership No: 249684

Place: Coimbatore

Date: February 27<sup>th</sup>, 2023

UDIN: 23249684B4V6QV8274

