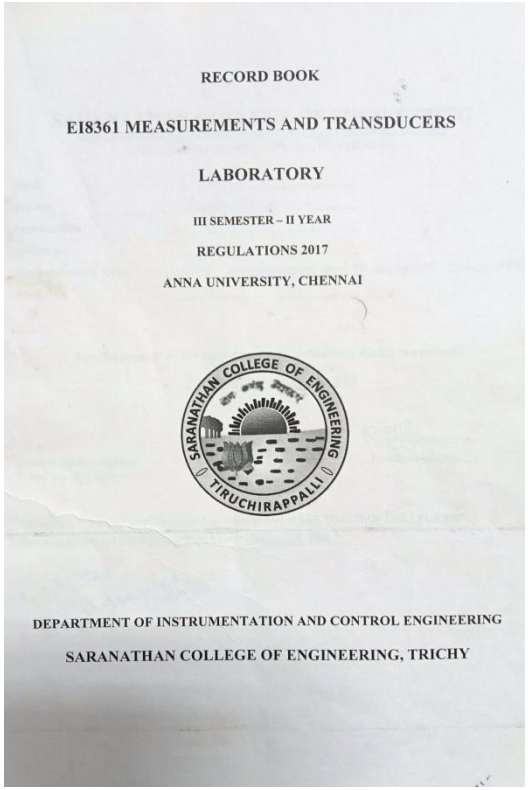
SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirapalli - 620 012, Tamil Nadu, India

1.3. Indicate where and how the Vision, Mission and PEOs are published and disseminated among stakeholders



RECORD BOOK

EI8361 MEASUREMENTS AND TRANSDUCERS

LABORATORY

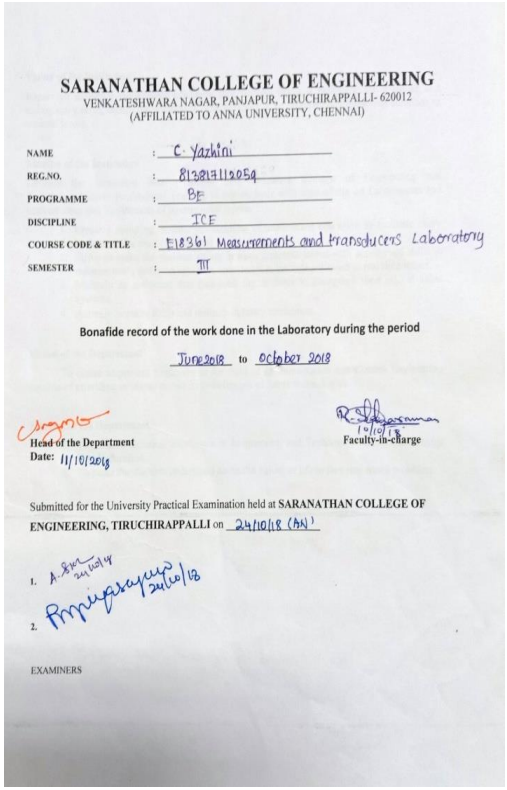
III SEMESTER – II YEAR

REGULATIONS 2017

ANNA UNIVERSITY, CHENNAI

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

SARANATHAN COLLEGE OF ENGINEERING, TRICHY



SARANATHAN COLLEGE OF ENGINEERING

VENKATESHWARA NAGAR, PANJAPUR, TIRUCHIRAPPALLI- 620012

(AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

NAME : C. Yazhini

REG.NO. : 813817112054

PROGRAMME : BE

DISCIPLINE : ICE

COURSE CODE & TITLE : EI8361 Measurements and transducers Laboratory

SEMESTER : III

Bonafide record of the work done in the Laboratory during the period

June2018 to October 2018

Head of the Department

Date: 11/10/2018

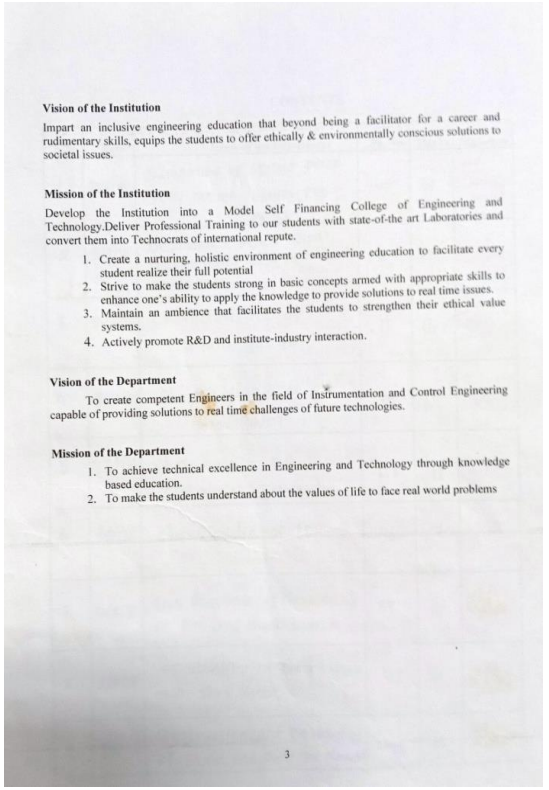
Faculty-in-charge

Submitted for the University Practical Examination held at SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI on 24/10/18 (AN)

1.

2.

EXAMINERS



Vision of the Institution

Impart an inclusive engineering education that beyond being a facilitator for a career and rudimentary skills, equips the students to offer ethically & environmentally conscious solutions to societal issues.

Mission of the Institution

Develop the Institution into a Model Self Financing College of Engineering and Technology.Deliver Professional Training to our students with state-of-the art Laboratories and convert them into Technocrats of international repute.

1. Create a nurturing, holistic environment of engineering education to facilitate every student realize their full potential
2. Strive to make the students strong in basic concepts armed with appropriate skills to enhance one's ability to apply the knowledge to provide solutions to real time issues.
3. Maintain an ambience that facilitates the students to strengthen their ethical value systems.
4. Actively promote R&D and institute-industry interaction.

Vision of the Department

To create competent Engineers in the field of Instrumentation and Control Engineering capable of providing solutions to real time challenges of future technologies.

Mission of the Department

1. To achieve technical excellence in Engineering and Technology through knowledge based education.
2. To make the students understand about the values of life to face real world problems

3

RECORD BOOK

IC6711 ADVANCED CONTROL SYSTEM LABORATORY

VII SEMESTER – IV YEAR

REGULATION 2013

ANNA UNIVERSITY, CHENNAI

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

SARANATHAN COLLEGE OF ENGINEERING, TRICHY

SARANATHAN COLLEGE OF ENGINEERING

VENKATESHWARA NAGAR, PANJAPUR, TIRUCHIRAPPALLI- 620012
(AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

NAME : T Harsha Govind Bangale

REG.NO : 813815112026

PROGRAMME : B.E

DISCIPLINE : Instrumentation and Control Engineering

COURSE CODE & TITLE : IC-6711 - Advanced control system lab

SEMESTER : VII

Bonafide record of the work done in the Laboratory during the period

July 2018 to November 2018

Head of the Department **Faculty-in-charge**

Date: 12-10-18

Submitted for the University Practical Examination held at **SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI** on 22-10-18

1. 22-10-18

2. 22/10/18

EXAMINERS

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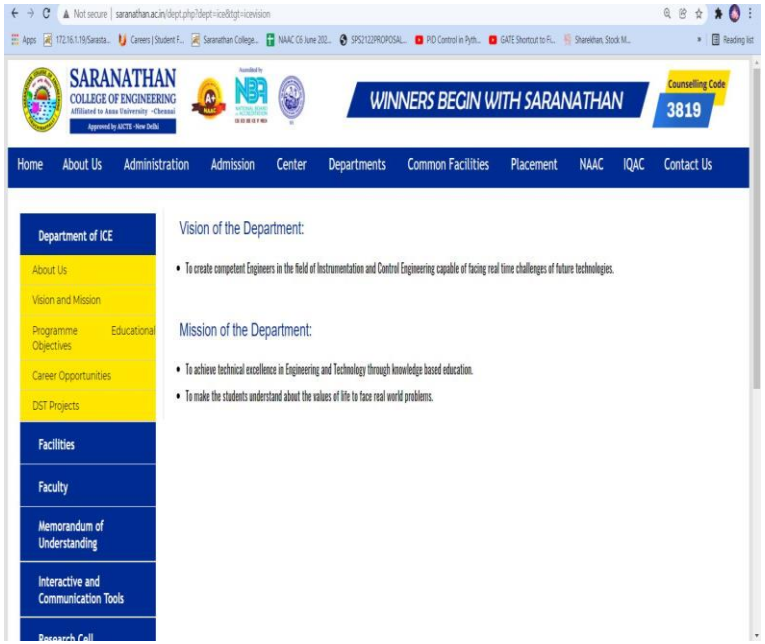
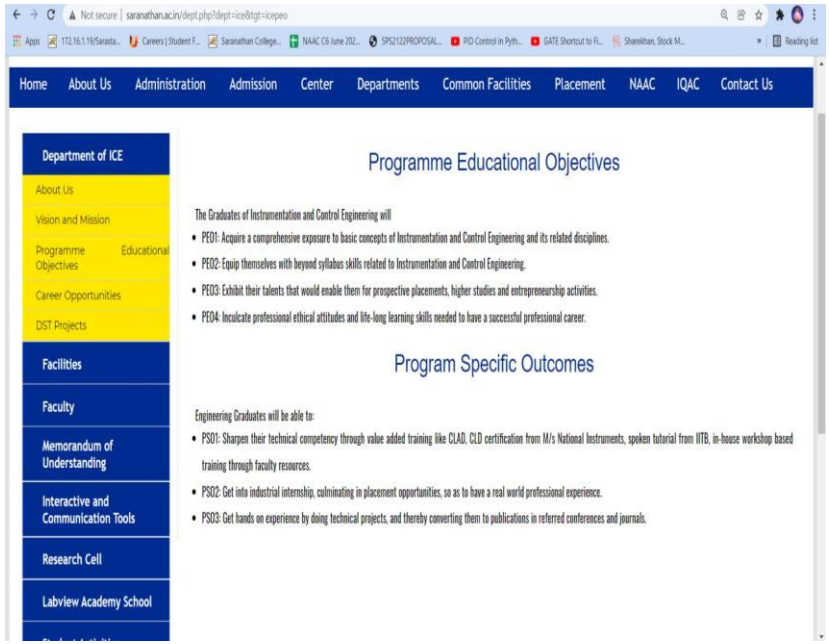
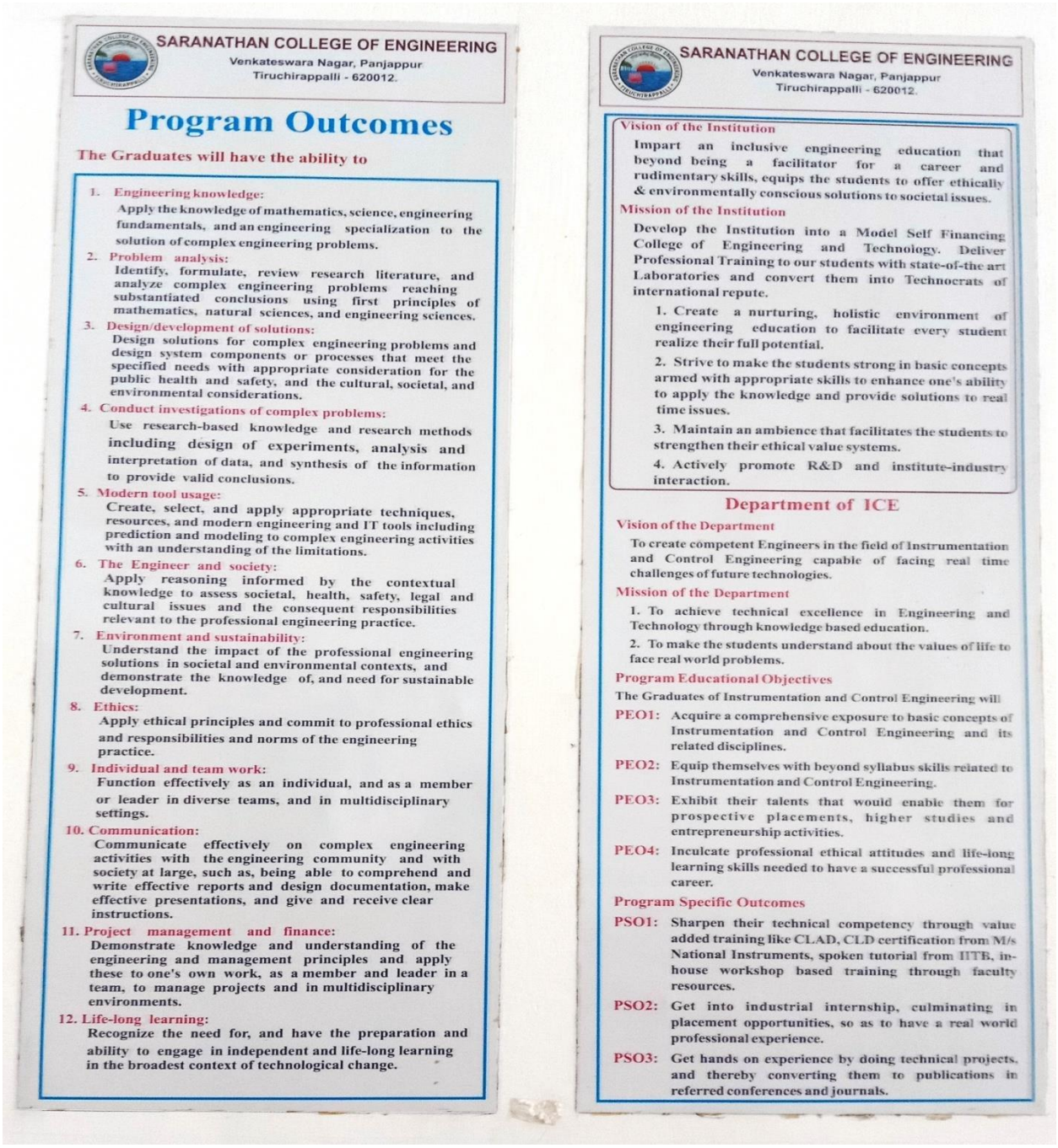
Department website





The below poster is provided in class rooms and Laboratories:



SARANATHAN COLLEGE OF ENGINEERING
Venkateswara Nagar, Panjappur
Tiruchirappalli - 620012.

Program Outcomes

The Graduates will have the ability to

1. **Engineering knowledge:**
   Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:**
   Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:**
   Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:**
   Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:**
   Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The Engineer and society:**
   Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:**
   Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:**
   Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:**
   Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:**
    Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:**
    Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:**
    Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Department of ICE

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Mission of the Department

1. To achieve technical excellence in Engineering and Technology through knowledge based education.
2. To make the students understand about the values of life to face real world problems.

Program Educational Objectives

The Graduates of Instrumentation and Control Engineering will

- **PEO1:** Acquire a comprehensive exposure to basic concepts of Instrumentation and Control Engineering and its related disciplines.
- **PEO2:** Equip themselves with beyond syllabus skills related to Instrumentation and Control Engineering.
- **PEO3:** Exhibit their talents that would enable them for prospective placements, higher studies and entrepreneurship activities.
- **PEO4:** Inculcate professional ethical attitudes and life-long learning skills needed to have a successful professional career.

Program Specific Outcomes

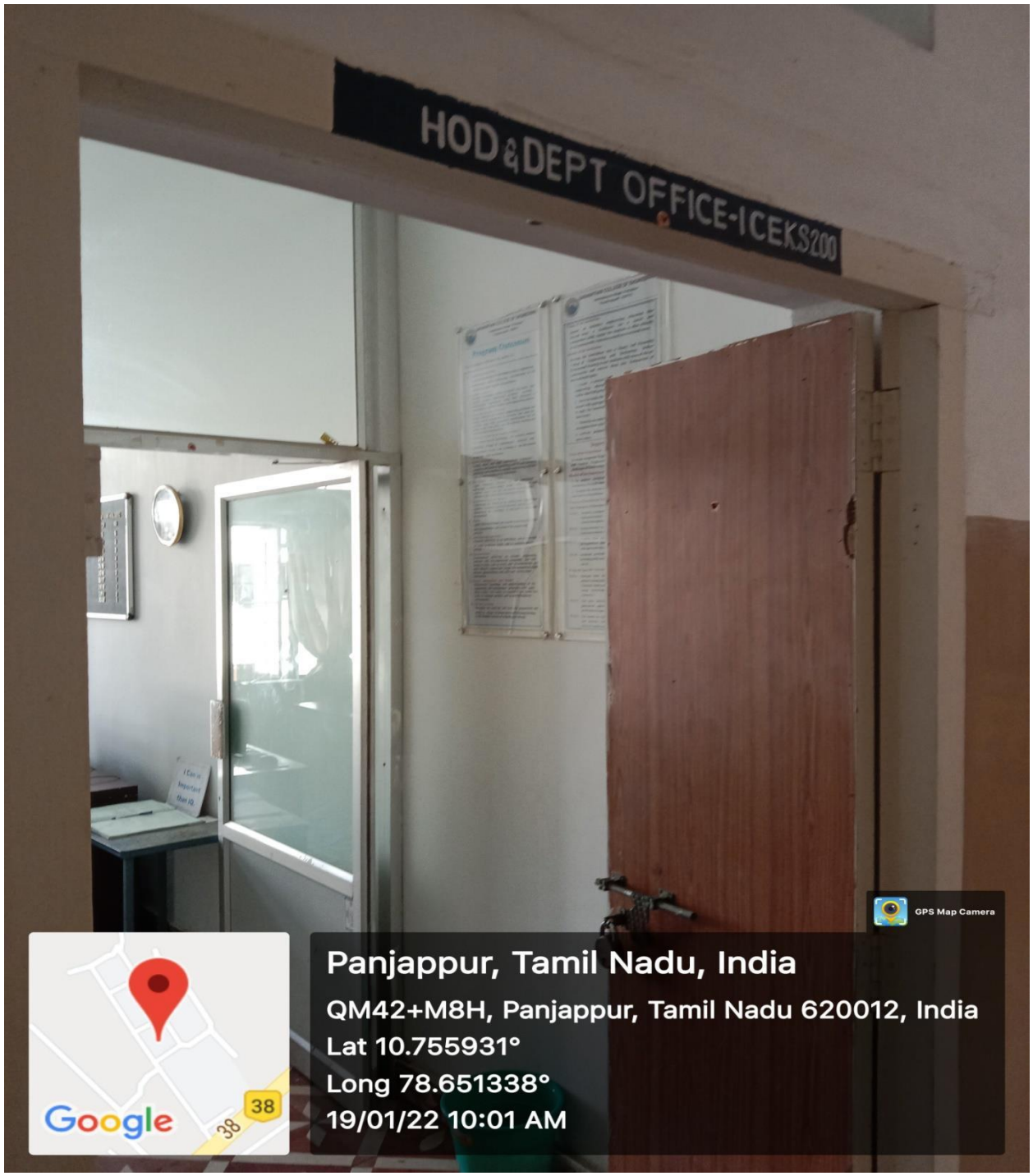
- **PSO1:** Sharpen their technical competency through value added training like CLAD, CLD certification from M/s National Instruments, spoken tutorial from IITB, in-house workshop based training through faculty resources.
- **PSO2:** Get into industrial internship, culminating in placement opportunities, so as to have a real world professional experience.
- **PSO3:** Get hands on experience by doing technical projects, and thereby converting them to publications in referred conferences and journals.

Second Year Class Room

Third Year Class Room

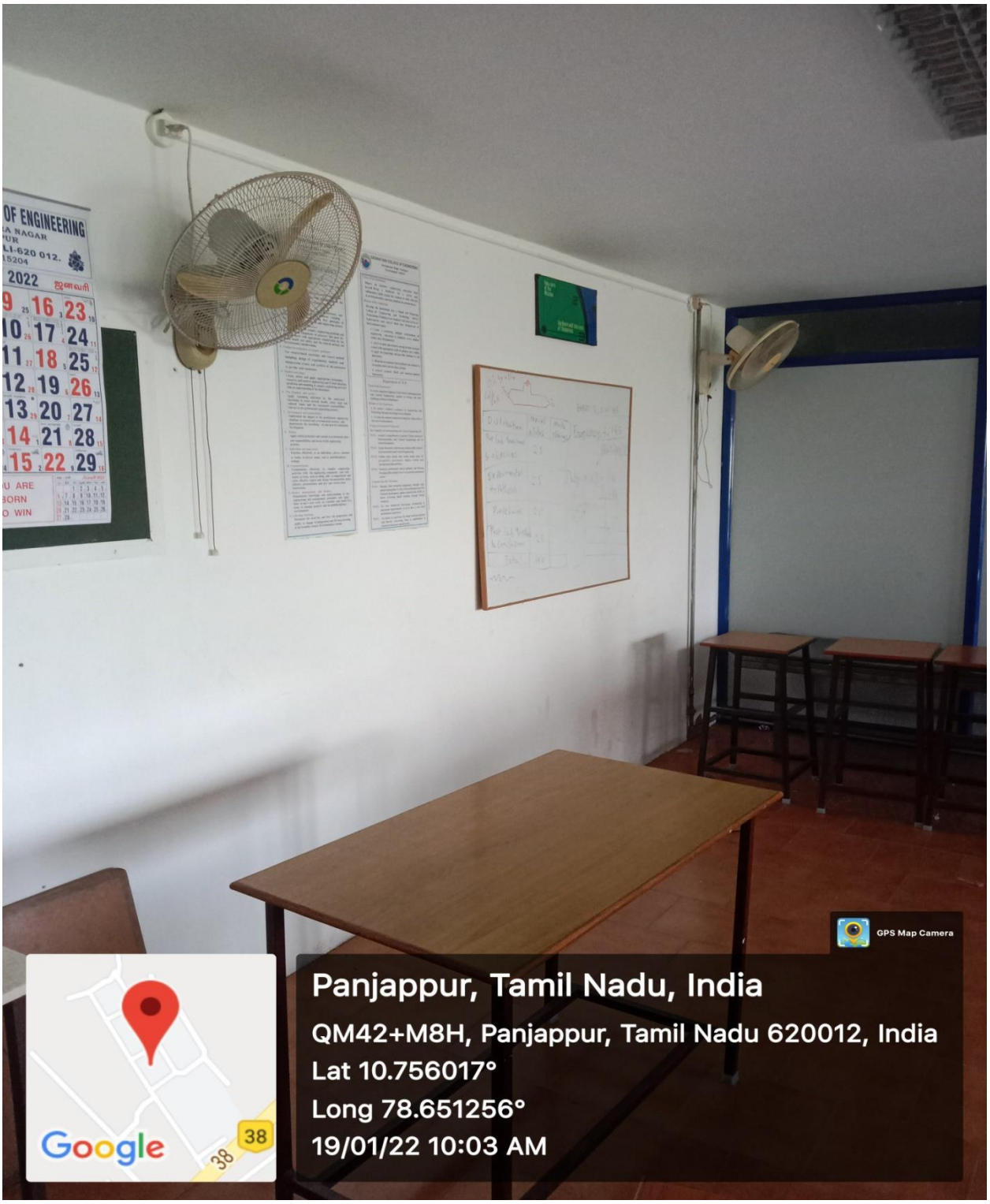
Final Year Class Room

HoD Cabin

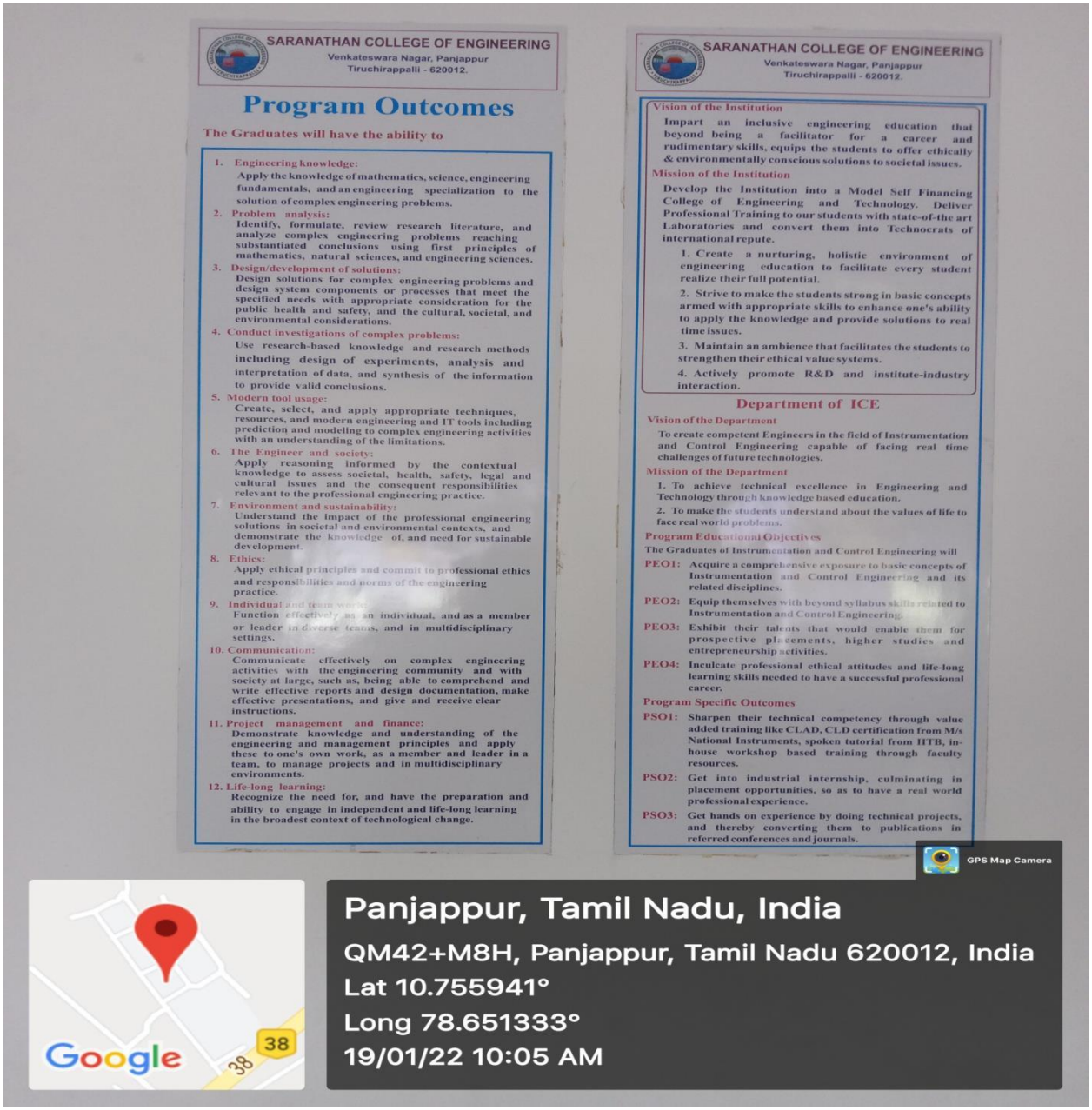

HOD & DEPT OFFICE-ICEKS200
GPS Map Camera
Panjappur, Tamil Nadu, India
QM42+M8H, Panjappur, Tamil Nadu 620012, India
Lat 10.755931°
Long 78.651338°
19/01/22 10:01 AM
Google
38

NI Research Lab

Transducer, Measurements & II Lab



Circuits and Instrumentation Design Lab



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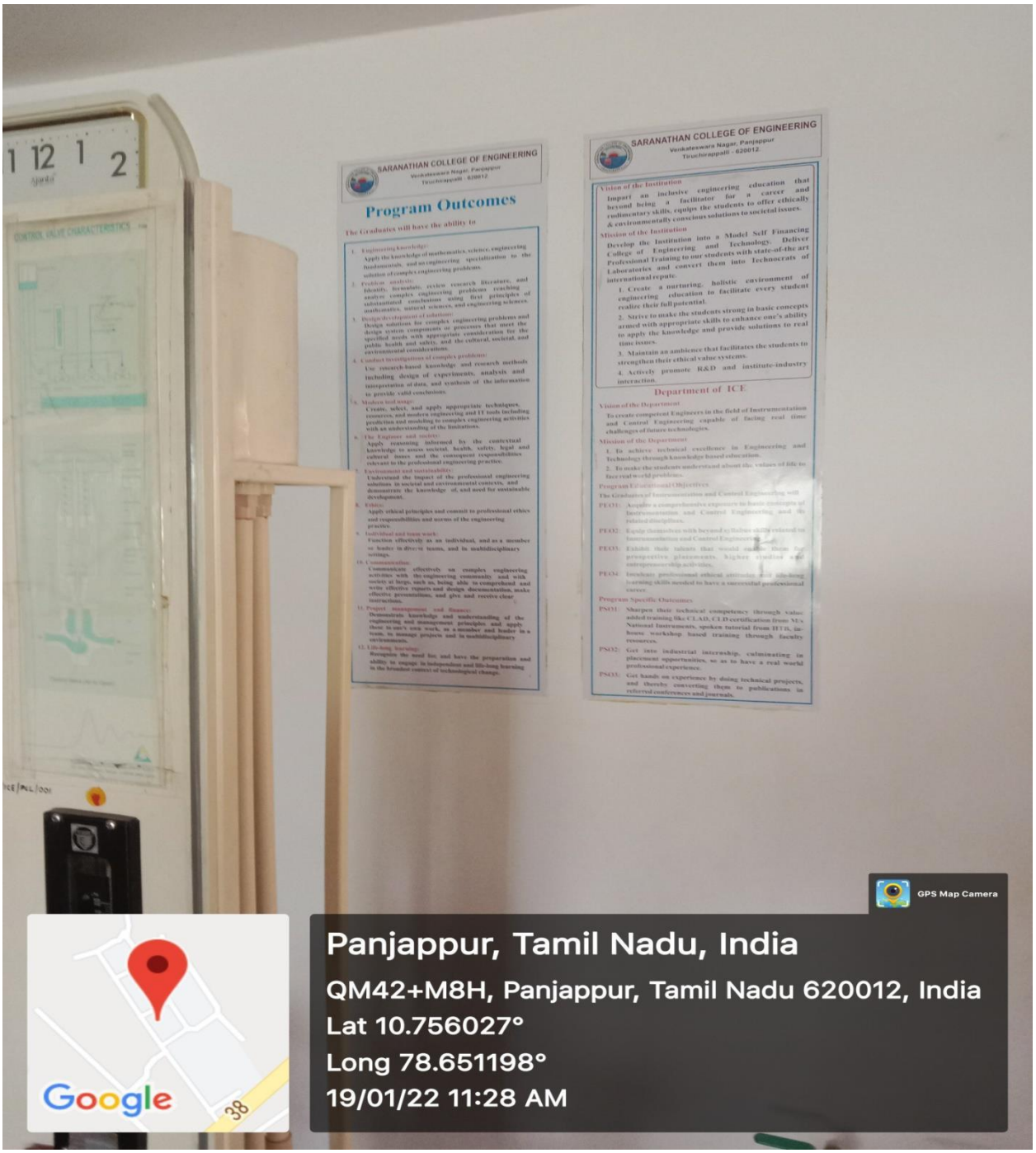
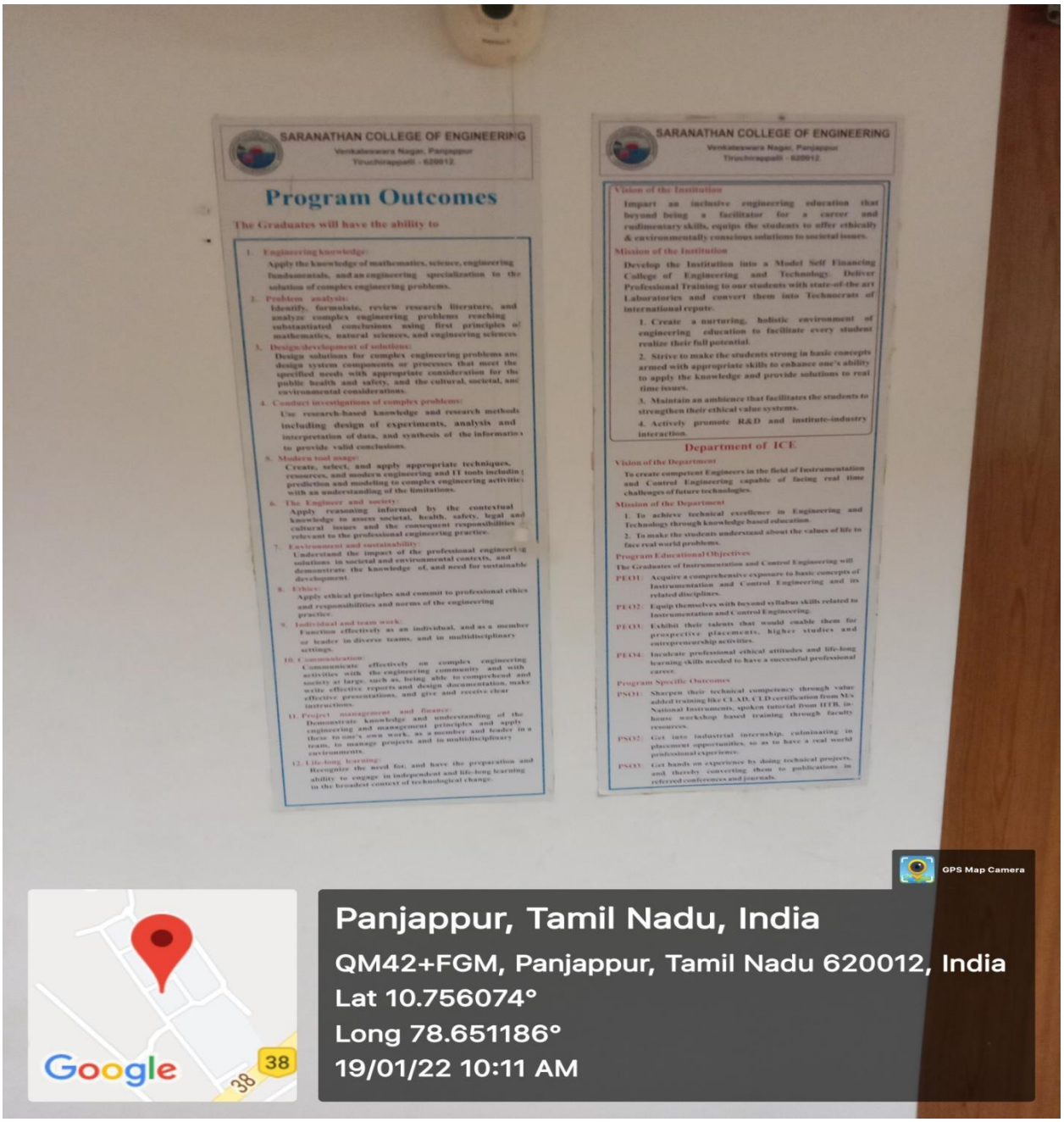
Process Control System Lab



Virtual Instrumentation Lab



Advanced Control Systems Lab