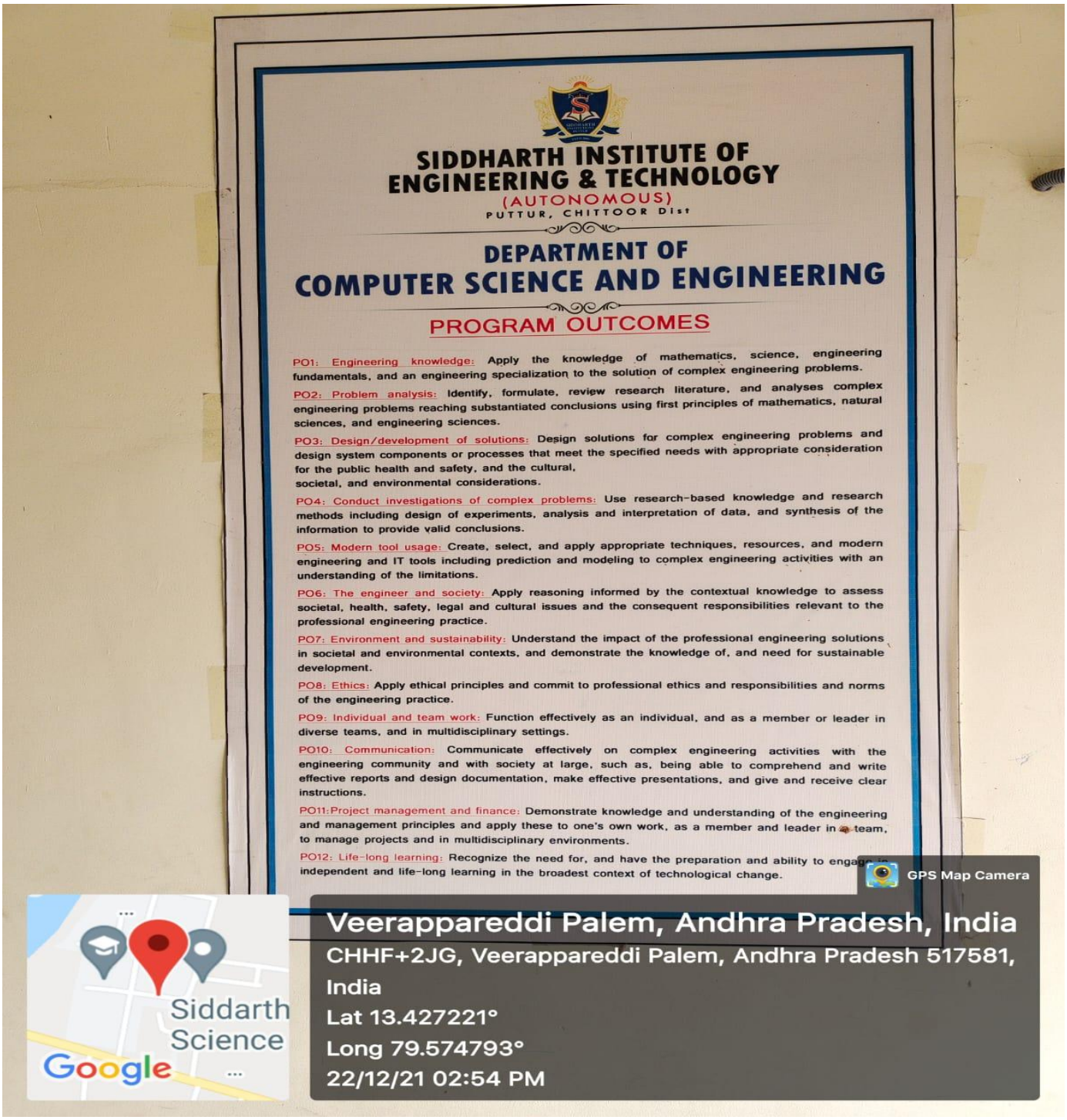
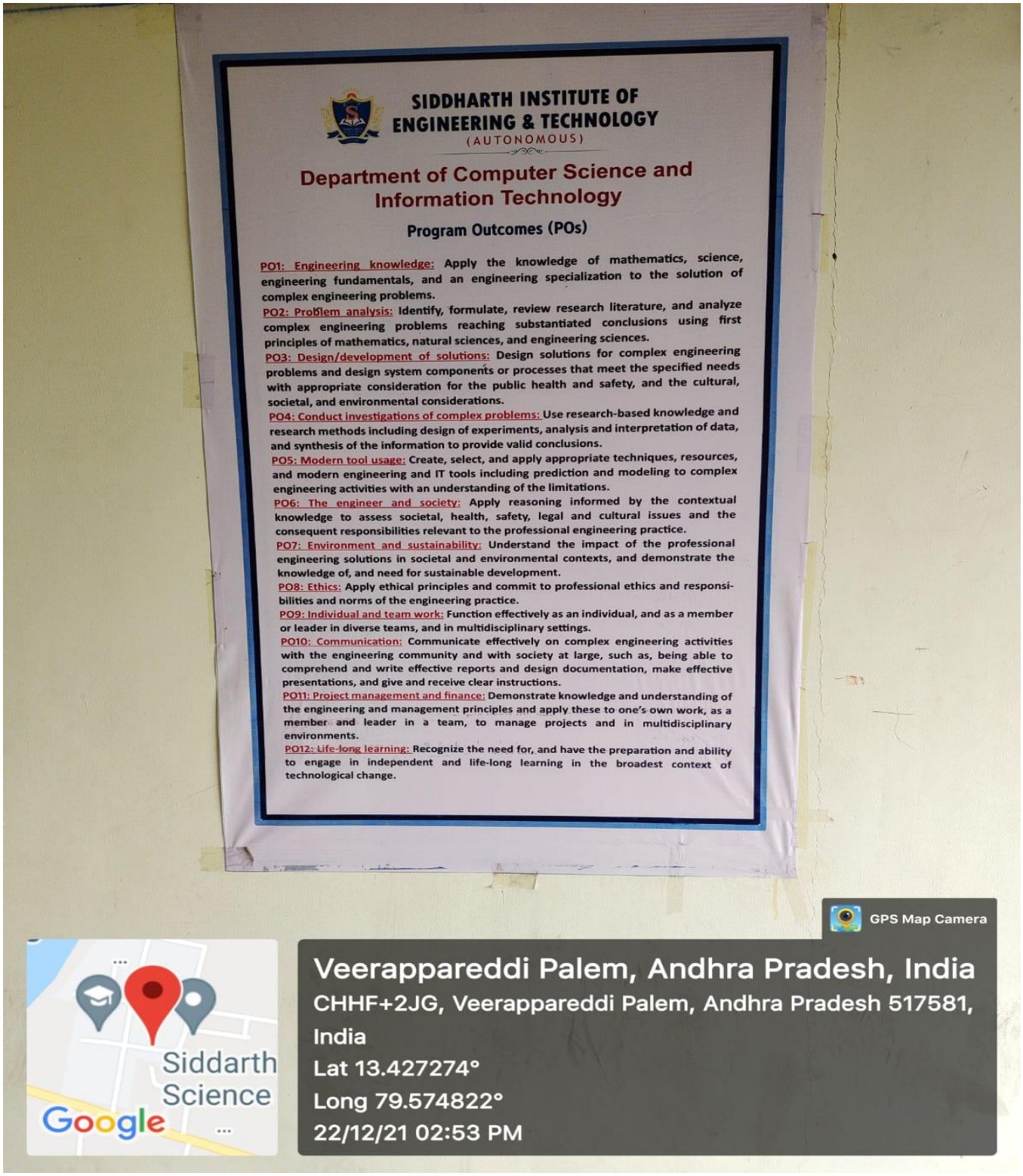
Disseminating of Programme Outcomes (POs) at prominent locations in the campus

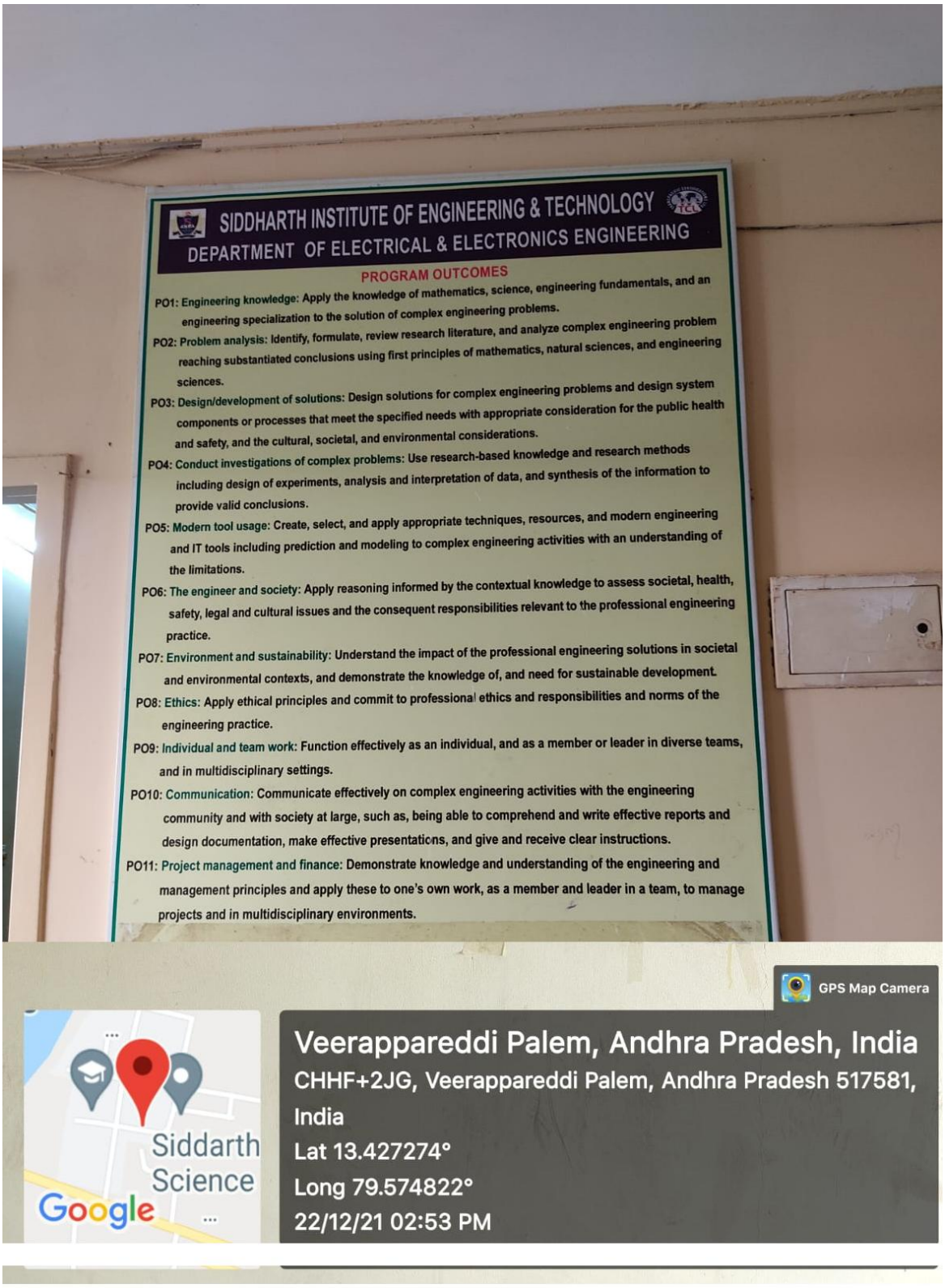


Displayed at auditorium block 2nd floor near CSE Labs

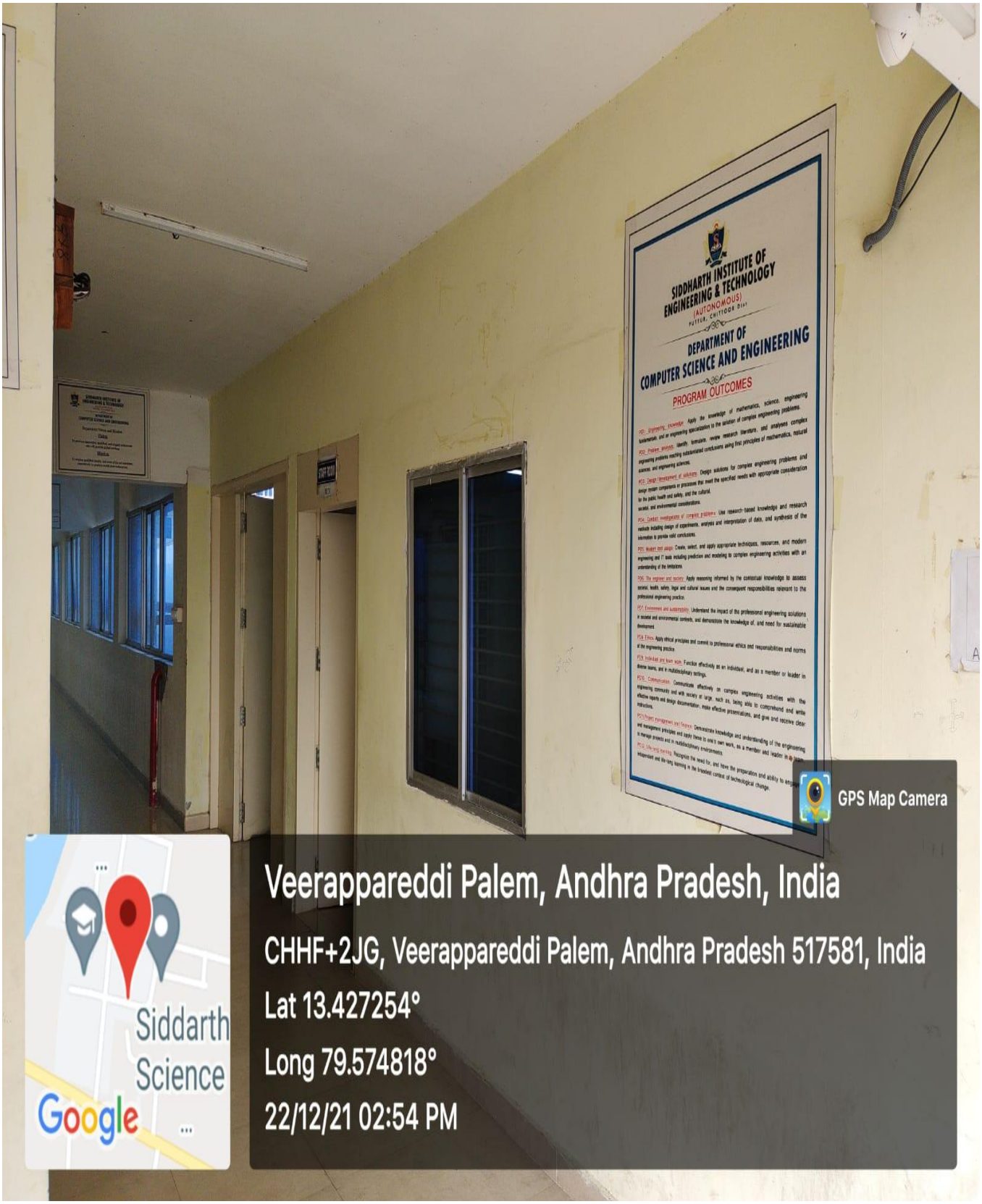
Displayed at auditorium block 1st floor near Civil staff room



Displayed at auditorium block 2nd floor near CSIT staff room

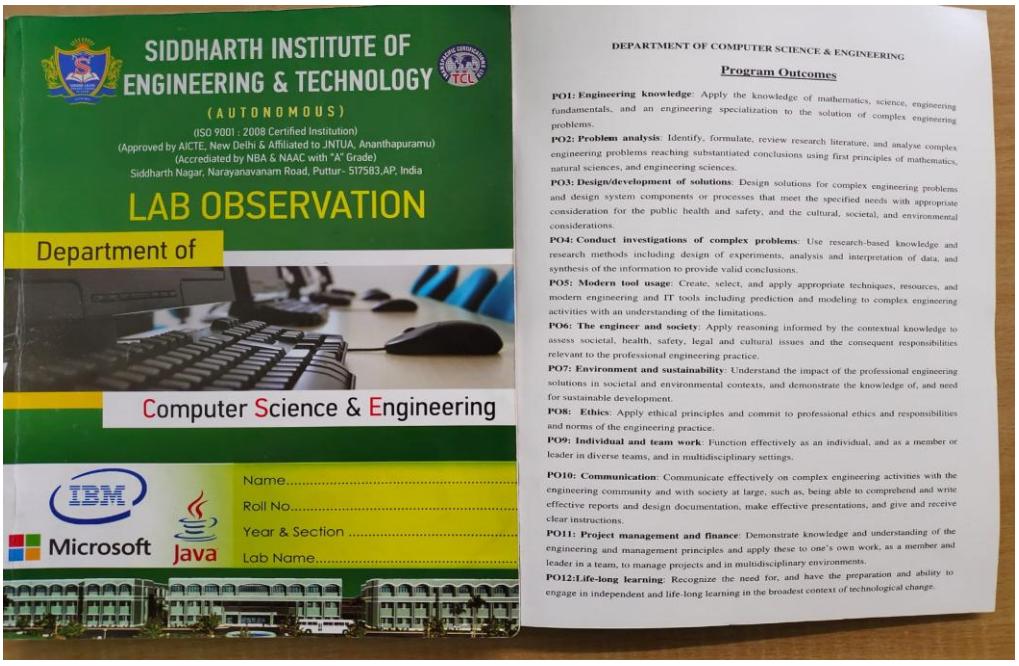


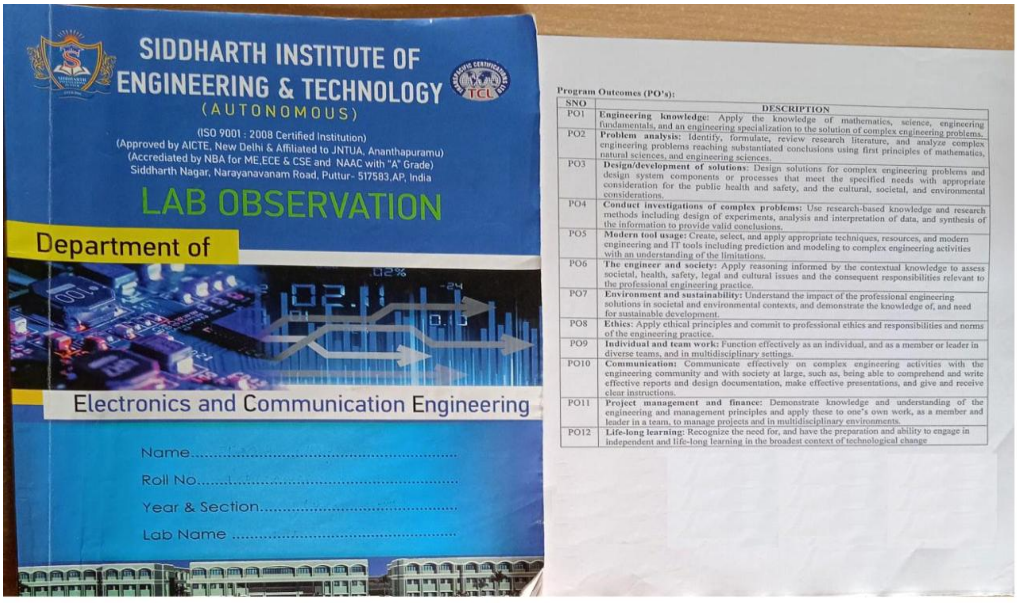
Displayed at A block ground floor near EEE HOD room



Displayed at auditorium block 3rd floor near CSE class rooms

Disseminating of Programme Outcomes in Lab Manuals





SNO	DESCRIPTION
PO1	**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**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.
PO3	**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.
PO4	**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.
PO5	**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.
PO6	**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.
PO7	**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.
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**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.
PO11	**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.
PO12	**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

PRINCIPAL

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.)

Disseminating of Course Outcomes in B.Tech Syllabus

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

L	T	P	C
3	-	-	3

IV B. Tech – I Sem.

(18CS0542) CYBER SECURITY
(Professional Elective Course-IV)

COURSE OBJECTIVES

The objectives of this course:

1. *To understand the fundamentals of cybercrime and the cyber offenses.*
2. *To learn the concepts of cyber threats and cyber security.*
3. *To familiarize various cyber threats, attacks, vulnerabilities, defensive mechanisms, security policies and practices.*

COURSE OUTCOMES (COs)

On successful completion of this course, student will be able to:

1. *Identify the fundamentals of cybercrimes.*
2. *Analyze the cyber offenses.*
3. *Infer the cyber threats, attacks, vulnerabilities and its defensive mechanism.*
4. *Understand the Tools and Methods Used in Cybercrime.*
5. *Design suitable security policies for the given requirements.*
6. *Survey the industry practices and tools to be on par with the recent trends.*

UNIT- I

Introduction to Cybercrime: Introduction, Cybercrime, and Information Security, Who are Cybercriminals, Classifications of Cybercrimes, And Cybercrime: The legal Perspectives and Indian Perspective, Cybercrime and the Indian ITA 2000, A Global Perspective on Cybercrimes.

UNIT - II

Cyber Offenses: How Criminals Plan Them: Introduction, How Criminals plan the Attacks, Social Engineering, Cyber stalking, Cyber cafe and Cybercrimes,
Botnets: The Fuel for Cybercrime, Attack Vector, Cloud Computing.

PRINCIPAL
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.)

Disseminating of Course Outcomes in MBA Syllabus

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
(AUTONOMOUS)

I MBA – I Sem

L	T	P	C
3	-	-	3

(20MB9006) MANAGEMENT INFORMATION SYSTEMS

COURSE OBJECTIVES

1. *Recognize contemporary MIS theory and how information systems support business strategy, business processes, and practical applications in an organization*
2. *Interrelate how various support systems can be used for business decisions and to sustain competitive advantage.*
3. *Describe how the Internet and World Wide Web provide a global platform for e-business, business mobility and communications, collaboration, and cloud computing.*

COURSE OUTCOMES

After the completion of course Students will be able to:

1. *Explain the importance of information system in decision making.*
2. *Determine information system requirements for all management levels by describing the differences between various types of information systems.*
3. *Apply probability theory in decision making situations.*
4. *Apply an ERP system to manage a company.*
5. *Implement and evaluate all aspects management information systems..*
6. *Critically and comparatively evaluate technical descriptions of computer hardware and software*

UNIT I

Introduction to MIS – Importance of information for management decisions – Systems Approach and Information – Information System Architecture – Quantitative Techniques and Management Information Systems interfacing

PRINCIPAL

PRINCIPAL

Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.)

Disseminating of Course Outcomes in M.Tech Syllabus

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR
(AUTONOMOUS)

I M.Tech – I Sem

L	T	P	C
3	-	-	3

(20ME3101) THERMODYNAMICS AND COMBUSTION

COURSE OBJECTIVES

Students undergoing this course are able to

1. *Understand the first and second law of thermodynamics*
2. *Recognize the Principles of combustion*
3. *Know about combustion and thermo chemistry.*
4. *Be aware of the Combustion Equipment used in the combustion*
5. *Understand the direct energy conversion*
6. *Identify the importance of burning capability of fuel in the combustion*

COURSE OUTCOMES

On successful Completion of this course the student will be able to

1. *Understand the concepts of transient flow analysis and real gas mixture*
2. *Describe the concepts of Chemical composition*
3. *Have a broad knowledge on chemical equilibrium*
4. *Have a broad knowledge on the concepts of Nerst heat theorem*
5. *Identify the applications of the fuel cells and magneto hydro dynamic generators.*
6. *Describe the concepts of PVC*

UNIT - I

Introduction: First law and State postulates, Second law and Entropy, Availability and Irreversibility, Transient flow analysis, Enthalpy of formation–Heating value of fuel - Adiabatic flame Temperature – Equilibrium composition of gaseous mixtures.

UNIT-II

Principles of Combustion: Chemical composition–Flue gas analysis–dew point of products –Combustion stoichiometry. Combustion of fuel, droplets and sprays – Combustion systems

PRINCIPAL

PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.)

Disseminating of Course Outcomes in Course Information Sheet

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

COMPUTER SCIENCE AND ENGINEERING

COURSE INFORMATION SHEET

Programme: B.Tech	**Academic year: 2021-22**	**Department: CSE**
Year/Sem: IV/I	**Regulations: R18**	**Credits**: 3
Course Name: Cyber Security	**Course Code: 18CS0542**	**Course Type: PEC**
Faculty Name: Mr. R. G. Kumar		**Faculty Qualification: M.Tech**
Corresponding Lab Course Code : -NA-		
Course Pre-Requisites: Students should already have knowledge on fundamentals of Computer Networks and basic Internet knowledge		

Course Objectives:

1	*To understand the fundamentals of cybercrime and the cyber offenses*
2	*To learn the concepts of cyber threats and cyber security*
3	*To familiarize various cyber threats, attacks, vulnerabilities, defensive mechanisms*
4	*To get familiarize with the laws, security policies and practices related to Cyber Crime*

Syllabus:

Unit	Details	Hours
I	**Introduction to Cybercrime:** Introduction, Cybercrime, and Information Security, Who are Cybercriminals, Classifications of Cybercrimes. **Cybercrime:** The legal Perspectives and Indian Perspective, Cybercrime and the Indian ITA 2000, A Global Perspective on Cybercrimes.	14
II	**Cyber Offenses:** How Criminals Plan Them: Introduction, How Criminals plan the Attacks, Social Engineering, Cyber stalking, Cyber cafe and Cybercrimes. **Botnets:** The Fuel for Cybercrime, Attack Vector, Cloud Computing.	12
III	**Cybercrime in Mobile and Wireless Devices:** Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication service Security. **Attacks on Mobile/Cell Phones, Mobile Devices:** Security Implications for Organizations, Organizational Measures for Handling Mobile, Organizational Security Policies and Measures in Mobile Computing Era, Laptops.	16
IV	**Tools and Methods Used in Cybercrime:** Introduction, Proxy Servers and Anonymizers, Phishing, Password Cracking, Keyloggers and Spywares, Virus and Worms, Trojan Horse and Backdoors, Steganography, DoS and DDoS attacks, SQL Injection, Buffer Overflow. **Phishing and Identity Theft:** Introduction, Phishing, Identity Theft (ID Theft).	13
V	**Cyber Security:** Organizational Implications Introduction, Cost of Cybercrimes and IPR issues, Web threats for Organizations, Security and Privacy Implications, **Social media marketing:** Security Risks and Perils for Organizations, Social Computing and the associated challenges for Organizations.	13
	Total Hours	**68**

Course Outcomes (CO's):

S.No	Description
CO1	*Identify the fundamentals of cybercrimes*
CO2	*Analyze the cyber offenses*
CO3	*Infer the cyber threats, attacks, vulnerabilities and its defensive mechanism*
CO4	*Understand the Tools and Methods Used in Cybercrime*
CO5	*Design suitable security policies for the given requirements*
CO6	*Survey the industry practices and tools to be on par with the recent trends*

CO Mapping with PO's and PSO's:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2														
CO2	1					2									
CO3				2		1	1	2					1		
CO4			1	1	1			1						2	
CO5				1	2		1	2							2
CO6	1			1		1									

1-low 2-medium 3-high

Delivery/Instructional Methodologies: (Tick where Appropriate)

Chalk & Board	Assignment	Power Point Presentation	Seminars	ICT	WEB sources
40 %	10 %	25 %	5 %	10 %	10 %

Assessment Methodologies-Direct/Indirect

Direct Assessment			Indirect
Mid Exams	**Assignments**	**University Exam**	**Course End Survey**

Faculty Signature **HOD**

PRINCIPAL
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517 583, Chittoor (Dt.)