2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution

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SIDDHARTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE & Affiliated to JNTU Hyderabad

DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

PEO1 : To prepare students with strong fundamentals to have a successful career in the field of Mechanical Engineering.

PEO2 : To strengthen self learning abilities and encourage students to pursue higher studies.

PEO3: To inculcate ethical values and ability to work in a team.

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1: Students will be able to analyze and provide engineering solutions in the areas related to Engineering Mechanics, Machine Design, Manufacturing and Thermal Engineering.

PSO2: Students will be able to develop and desi mechanical engineering equipment using simulation software.

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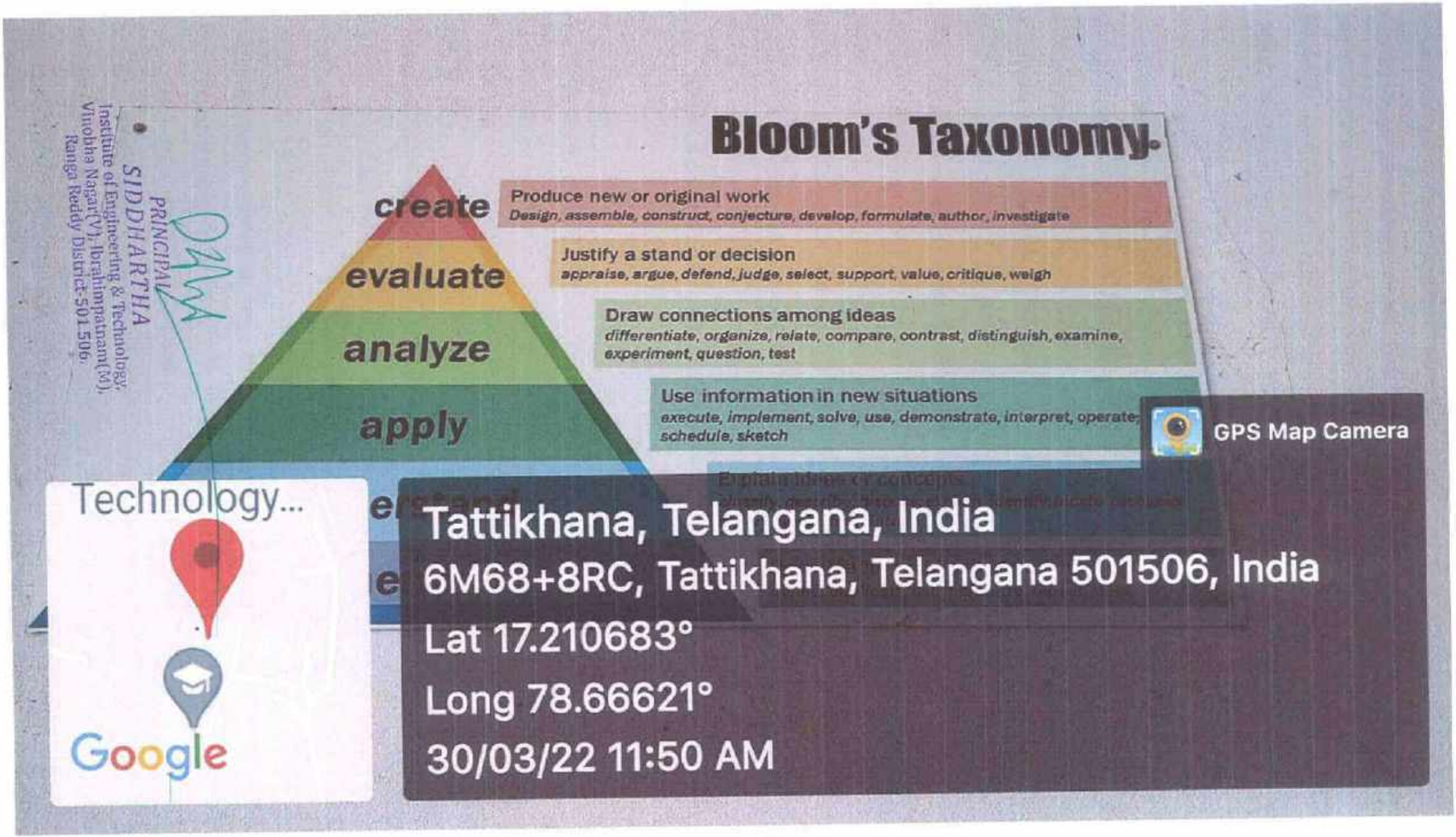
Bloom's Taxonomy
create
Produce new or original work
Design, assemble, construct, conjecture, develop, formulate, author, investigate
evaluate
Justify a stand or decision
appraise, argue, defend, judge, select, support, value, critique, weigh
analyze
Draw connections among ideas
differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test
apply
Use information in new situations
execute, implement, solve, use, demonstrate, interpret, operate, schedule, sketch
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DEPARTMENT OF MECHANICAL ENGINEERING

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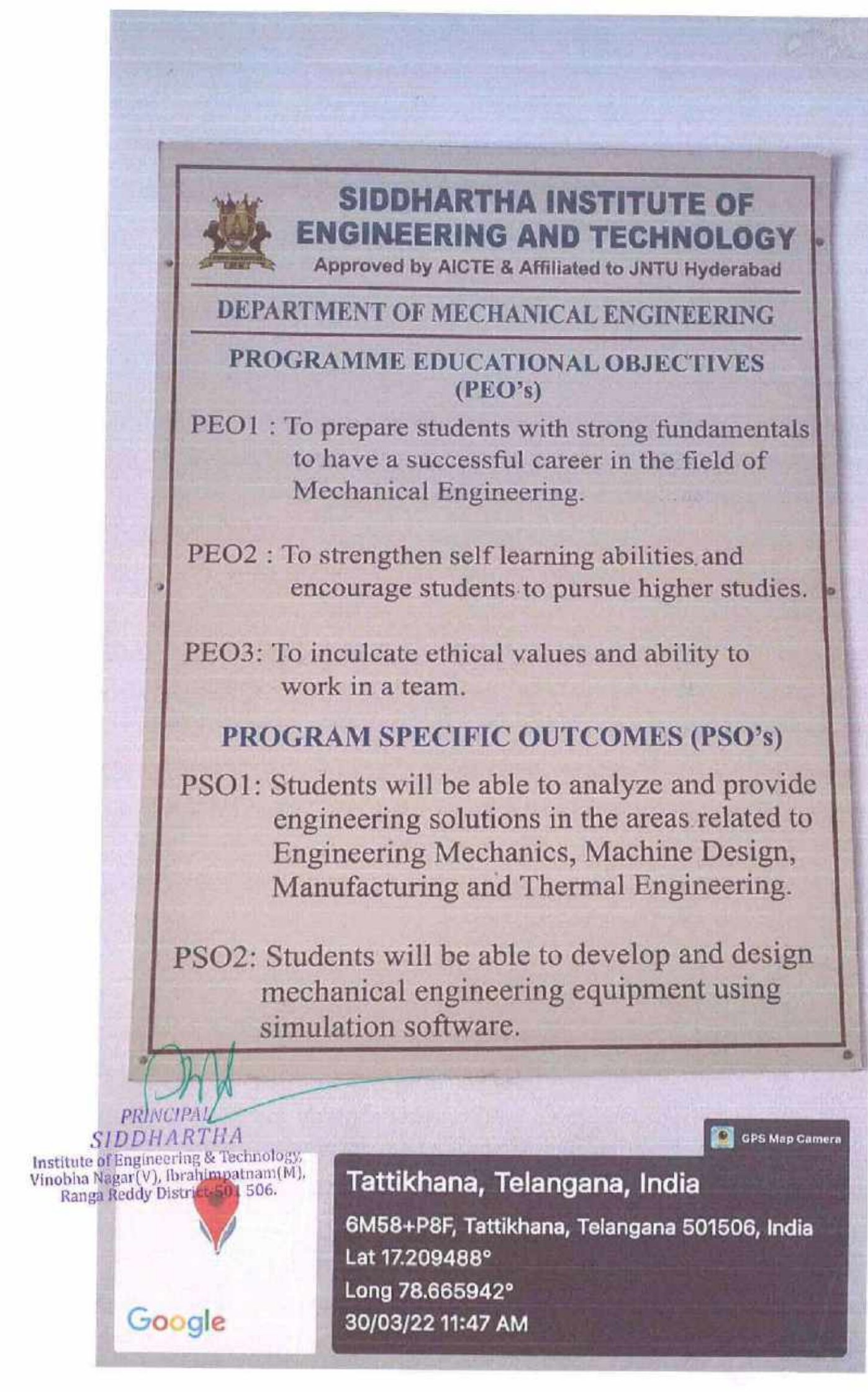

Branch: Mechanical Engineering

IV Year B.Tech I Semester R16, Academic Year 2019 – 2020

Lab Name: **Instrumentation Control Systems Lab**

Outcome No.:	Course Outcomes
CO – 1	The student will be able to Characterize & calibrate Measuring Devices
CO – 2	Analyze & identify errors in Measurement
CO – 3	Analyze measured data using Regression Analysis

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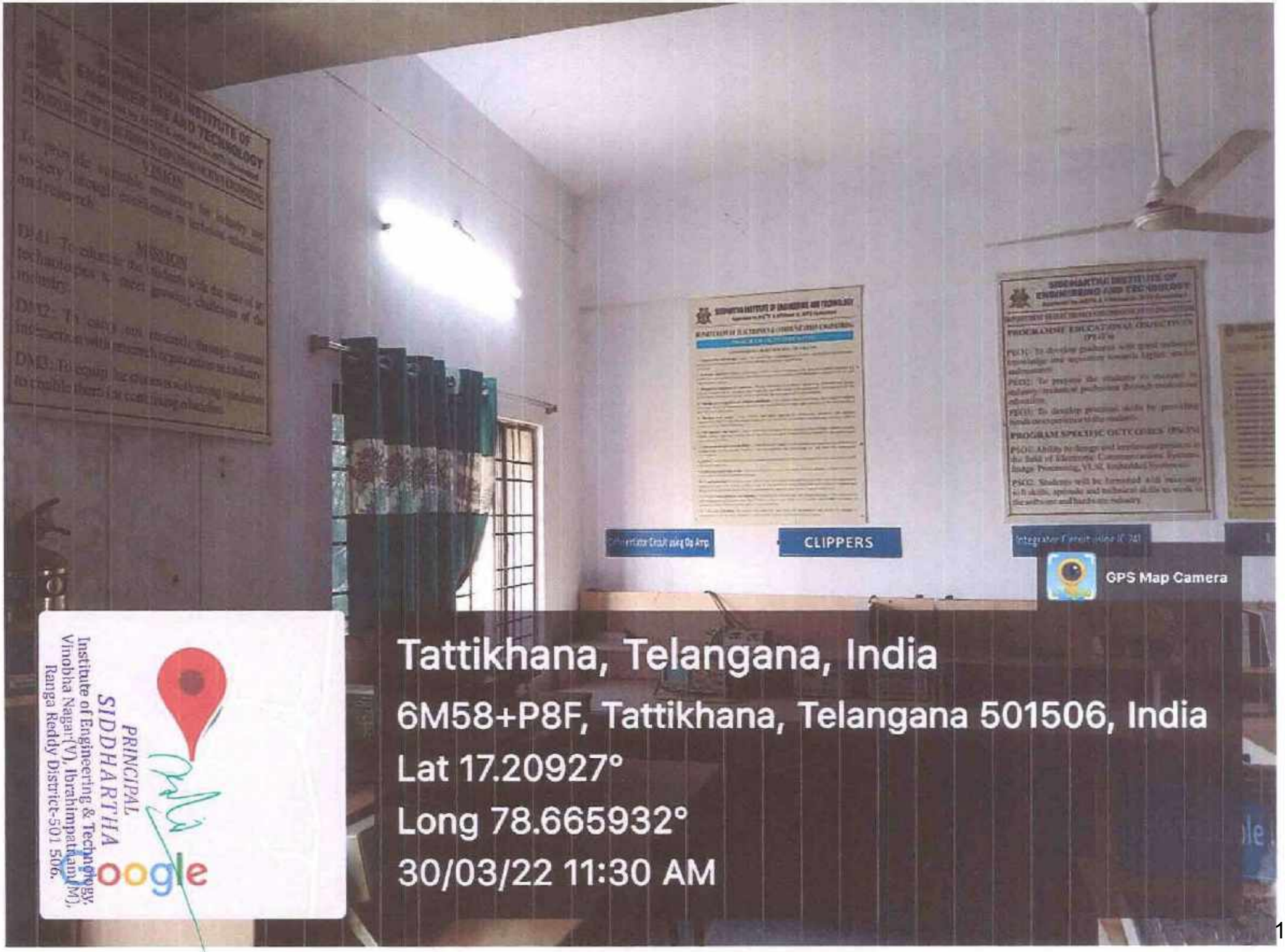
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DEPARTEMENT OF COMPUTER SCIENCE AND ENGINEERING
VISION
To inculcate the students with problem solving skills to challenge next generation technologies.
MISSION
DM1: Enable students to learn innovative methods for solving complex problems.
DM2: Provide industry interaction to get acquainted with its futuristic needs.
DM3: Create an environment to facilitate the students with necessary technologies.
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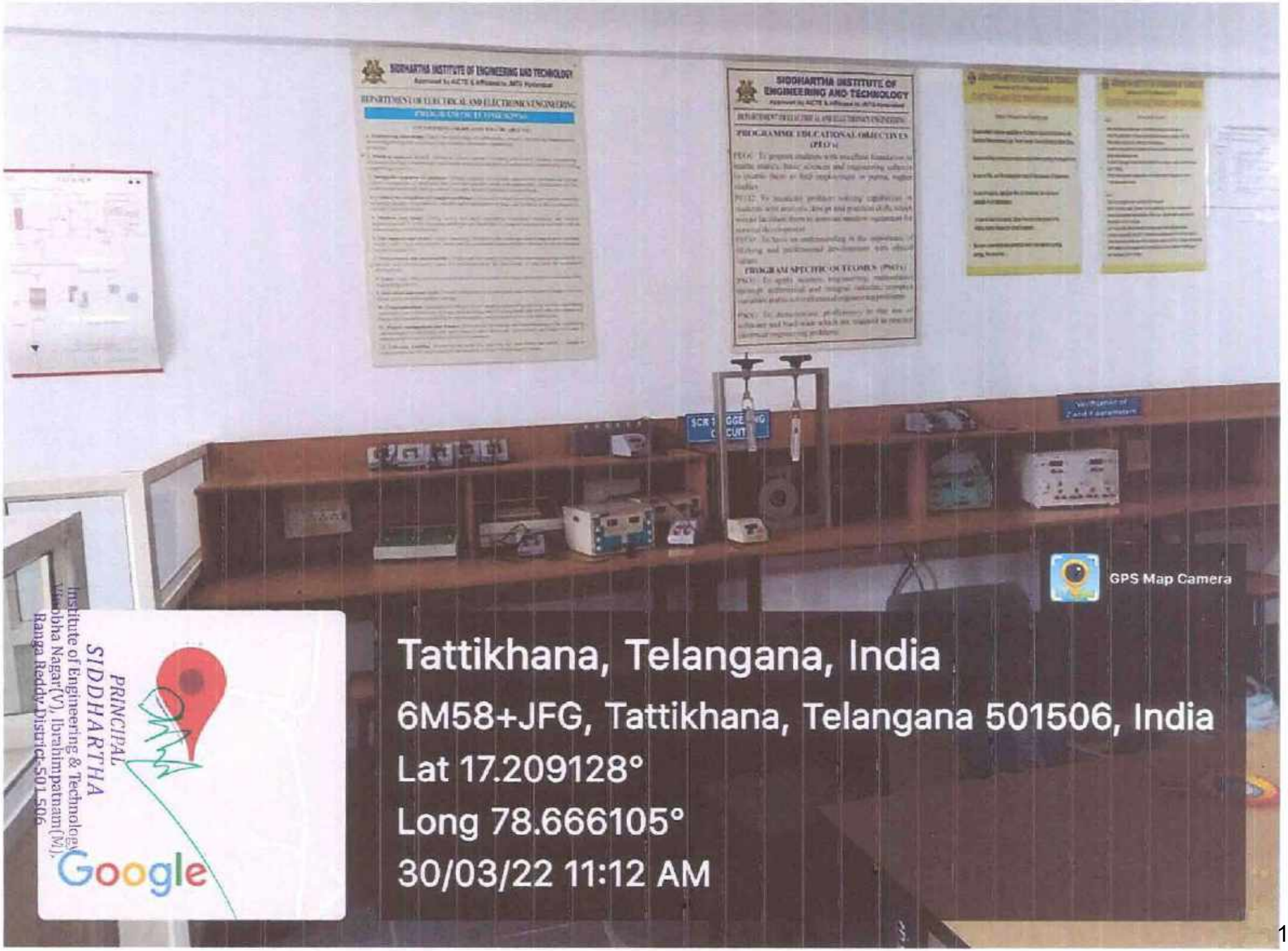
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PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)
PROGRAM SPECIFIC OUTCOMES (PSO's)
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VISION OF THE DEPARTMENT:

To inculcate the students with problem solving skills to challenge next generation technologies

MISSION OF THE DEPARTMENT:

- Enable students to learn innovative methods for solving complex problems.
- Provide industry interaction to get acquainted with its futuristic needs.
- Create an environment to facilitate the students with necessary technologies.

PROGRAMME EDUCATIONAL OBJECTIVES:

PEO 1: To develop mathematical, analytical and computational ability to solve software problems by applying innovative technical tools.

PEO 2: To make Students employable as software professionals and be able to embrace lifelong learning with professional ethics.

PEO 3: To make students deal with multidisciplinary project teams having effective communication and professional skills and leadership qualities

PROGRAMME SPECIFIC OUTCOMES:

PSO 1: Expertise on the contemporary skills towards development of innovative apps and firmware products

PSO 2: Capable to participate in the construction of software systems of varying complexity.

PROGRAMME OUTCOMES:

PO 1: Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem Analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO 3: Design/ Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

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PO 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 information to provide valid conclusions.

PO 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.

PO 6: The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO 7: Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO 9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO 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.

PO 11: Project Management and Finance: Demonstrate knowledge and understanding of 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

PO 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.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INSTITUTION VISION & MISSION

VISION:

To be a pioneer institute and leader in engineering education whose primary concern would be the development of the human race and betterment of society through their knowledge, technological understanding and the spirit of progress.

MISSION:

1. To create a conductive environment for student centric learning and industry institute interaction.
2. To integrate the state of the art infrastructure, facilities and cutting edge academic delivery.
3. To develop and nurture socially conscious technocrats through continuing education and research.

Vision of the Department :

To inculcate the students with problem solving skills to challenge next generation technologies.

Mission of the Department :

DM1 : Enable students to learn innovative methods for solving complex problems.

DM2 : Provide industry interaction to get acquainted with its futuristic needs.

DM3 : Create an environment to facilitate the students with necessary technologies.

Program Educational Objectives

PEO No.	Program Educational Objectives
PEO 1	To develop mathematical, analytical and computational ability to solve software problems by applying innovative technical tools.
PEO 2	To make students employable as software professionals and be able to embrace life long learning with professional ethics.
PEO 3	To make students deal with multidisciplinary project teams having effective communication and professional skills and leadership qualities.

Program Specific Outcomes

PSO1	Expertise on the contemporary skills towards development of innovative apps and firmware products.
PSO2	Capable to participate in the construction of software systems of varying complexity.

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- Vision and Mission
- PEO, PSO, PO
- HOD's Message
- Department Faculty
- > Department Academic Committee
- Advanced Infrastructure
- Department Events
- > Course Files
- > Guest Lectures
- > Workshops / Seminars
- > Industrial Visits

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO 1 : To provide the students with a strong foundation in the basic sciences and mathematics that will enable them to solve real time problems in civil engineering.

PEO 2 : To apply technical expertise in identifying and resolving complex issues with the help of modern engineering tools and lifelong learning to meet the specific needs of their chosen domain viz employment, higher studies and research

PEO 3 : To develop an understanding of the multidisciplinary approach and an ability to relate engineering issues to broader social and human context

PROGRAM SPECIFIC OUTCOMES(PSOS)

PSO 1 : To understand and apply the mathematical and scientific concepts for analytical and design skills concerned with civil engineering practice.

PSO 2 : To develop and design sustainable and smart infrastructure considering the global environmental challenges

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PO1: Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

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VISION OF THE DEPARTMENT

VISION

To produce and expand the capability of Data Science Graduates through Value-Based Education and make them industry ready.

MISSION

M1: To provide highest quality of Teaching, Research and Learning Opportunities.
M2: To collaborate with the Industries and Research Institutions to instill the spirit of Innovation and Problem Solving Skills.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Establish themselves in a variety of technical roles by solving real-world issues with the use of core computer science topics, with a focus on data science.
PEO2: Develop professional skills in contemporary areas of Data Science which will prepare them for employment and higher education.
PEO3: To succeed in their profession, they must combine research and entrepreneurial skills with rich set of communication, teamwork, and leadership skills.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Understand and Analyze Data Science principles, including Machine Learning, Cloud Computing, Internet of Things, and Data Analytics, to solve contemporary problems in Computer Science.
PSO2: To Apply Data Science skills learned through internships and collaborative projects with industry to function as an ethical software engineer/researcher in the evolving discipline of Computer Science.
PSO3: Implement Artificial Intelligence and Data Science Techniques to solve ream time problems in the area of Agriculture, Health Care and Environment.

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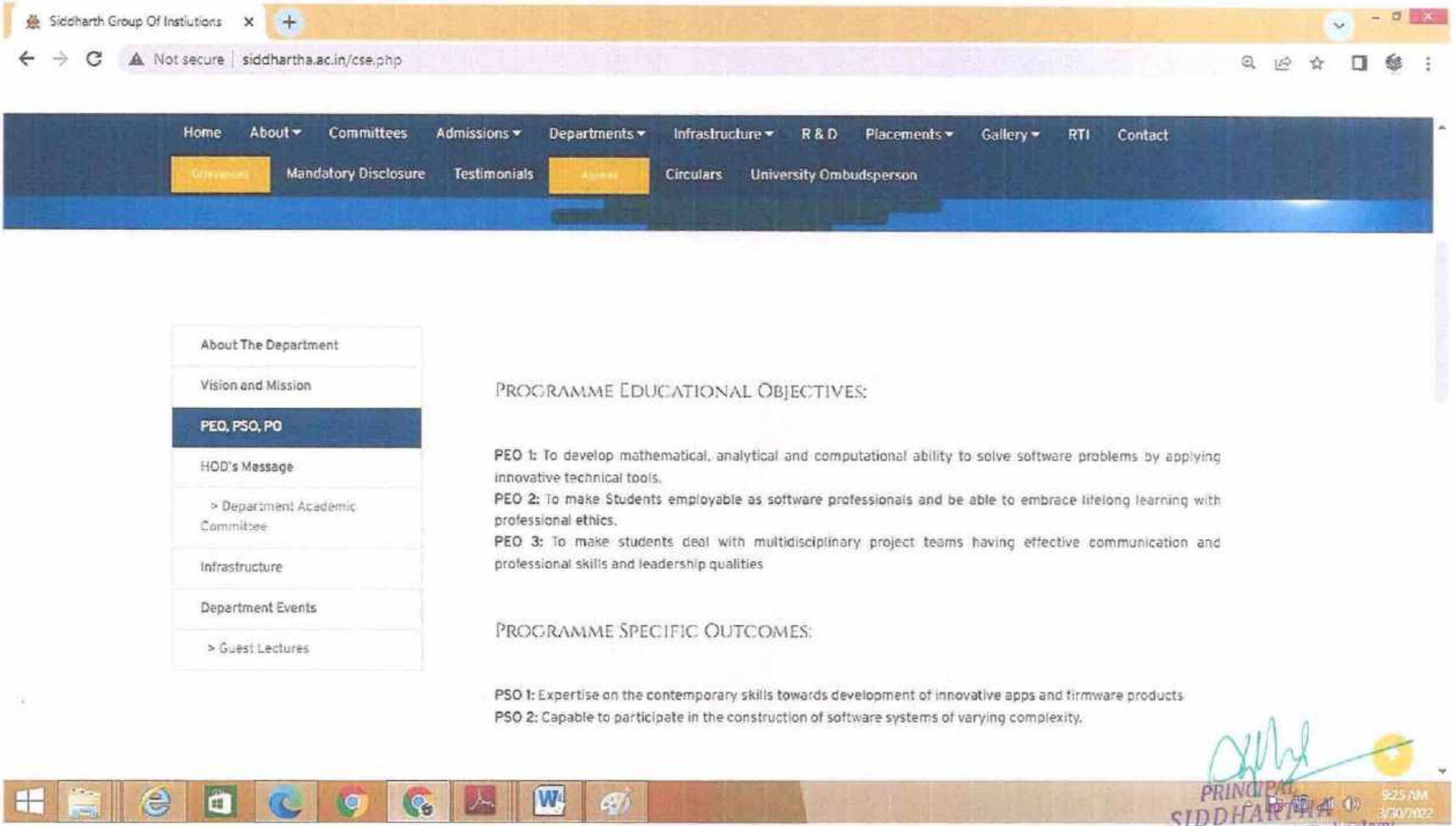

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PO 7: Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

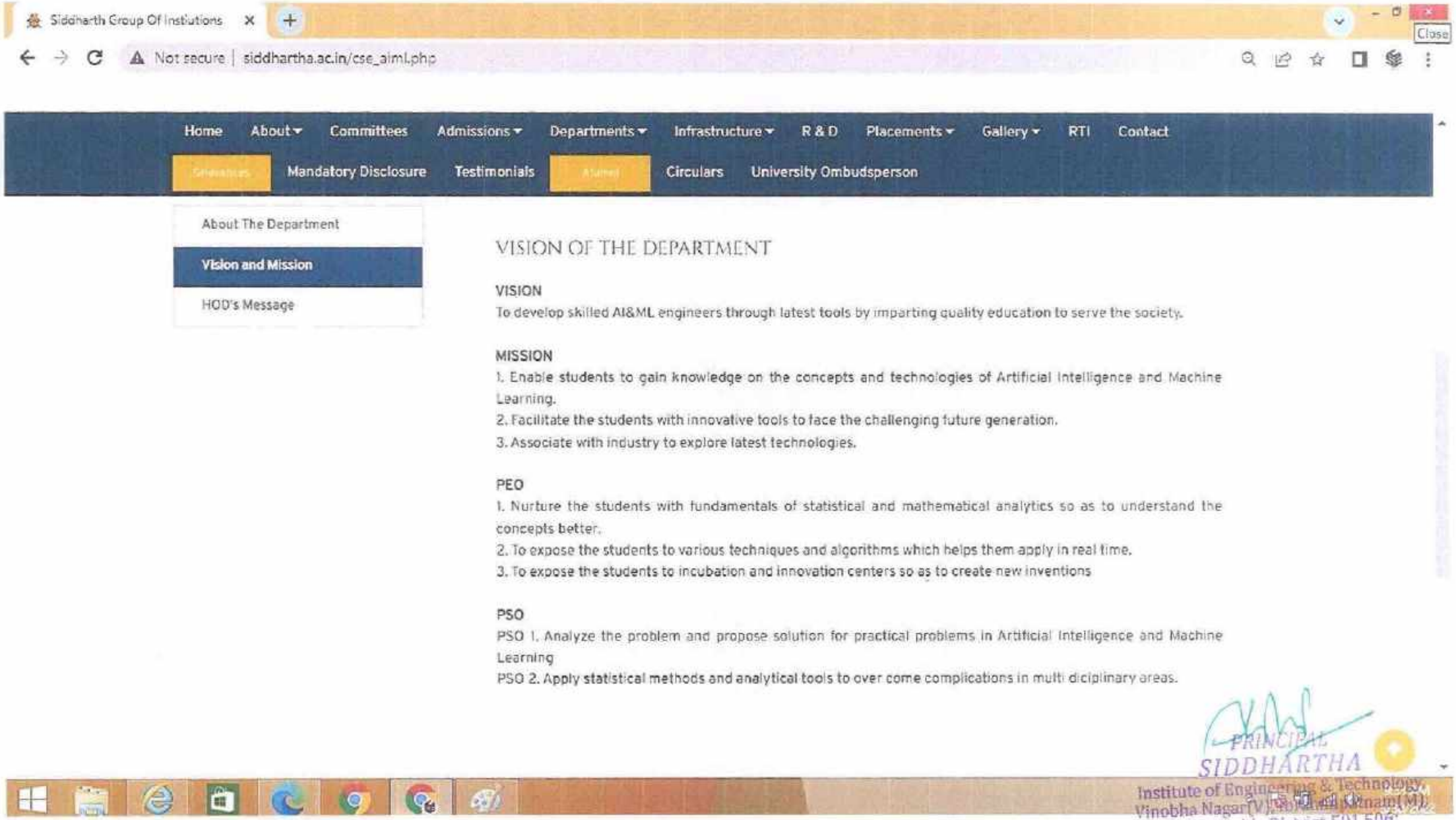
PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO 9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO 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.

PO 11: Project Management and Finance: Demonstrate knowledge and understanding of 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

PO 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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About The Department
Vision and Mission
HOD's Message
VISION OF THE DEPARTMENT
VISION
To develop skilled AI&ML engineers through latest tools by imparting quality education to serve the society.
MISSION
1. Enable students to gain knowledge on the concepts and technologies of Artificial Intelligence and Machine Learning.
2. Facilitate the students with innovative tools to face the challenging future generation.
3. Associate with industry to explore latest technologies.
PEO
1. Nurture the students with fundamentals of statistical and mathematical analytics so as to understand the concepts better.
2. To expose the students to various techniques and algorithms which helps them apply in real time.
3. To expose the students to incubation and innovation centers so as to create new inventions
PSO
PSO 1. Analyze the problem and propose solution for practical problems in Artificial Intelligence and Machine Learning
PSO 2. Apply statistical methods and analytical tools to over come complications in multi diciplinary areas.
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PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S):

PEO1: To develop graduates with good technical knowledge and aspiration towards higher studies and research.

PEO2: To prepare the students to succeed in industry/technical profession through meticulous education.

PEO3: To develop practical skills by providing hands-on experience to the students.

PROGRAM SPECIFIC OUTCOMES(PSO'S):

PSO1: Ability to design and implement projects in the field of electronic communication systems, image processing, VLSI, Embedded system etc.

PSO2: Students will be furnished with necessary soft skill, aptitude and technical skills to work in the software and hardware industry.

PROGRAM OUTCOMES (POS):

PO1: Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, 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 specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

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> Workshops / Seminars
> Industrial Visits
> Student Chapters - ISTE and IETE
> Cultural Events / Fest

PROGRAM OUTCOMES (POS):

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PO7: Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

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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.

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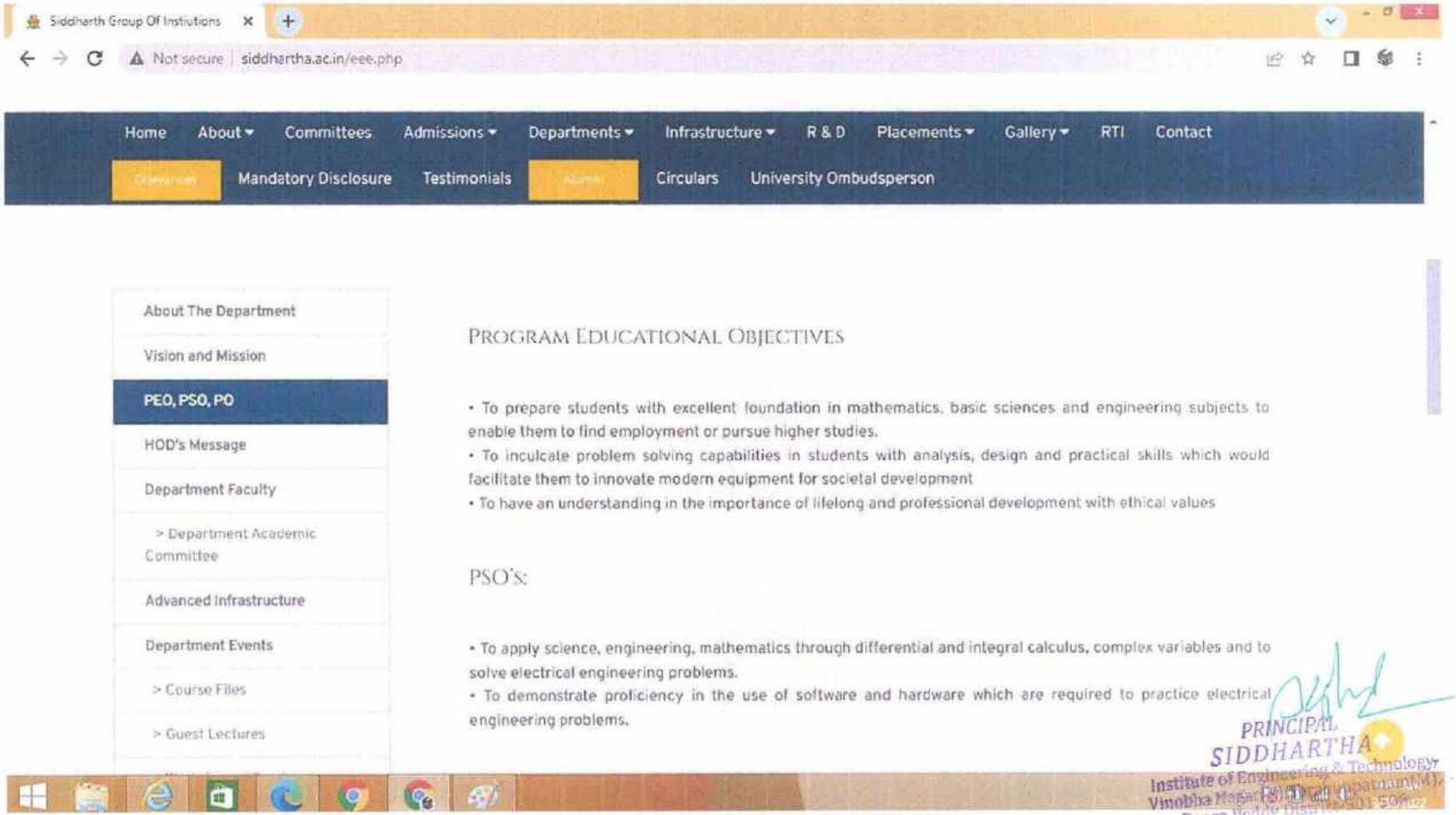
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About The Department
Vision and Mission
PEO, PSO, PO
HOD's Message
Department Faculty
> Department Academic Committee
Advanced Infrastructure
Department Events
> Course Files
> Guest Lectures
PROGRAM EDUCATIONAL OBJECTIVES
• To prepare students with excellent foundation in mathematics, basic sciences and engineering subjects to enable them to find employment or pursue higher studies.
• To inculcate problem solving capabilities in students with analysis, design and practical skills which would facilitate them to innovate modern equipment for societal development
• To have an understanding in the importance of lifelong and professional development with ethical values
PSO'S:
• To apply science, engineering, mathematics through differential and integral calculus, complex variables and to solve electrical engineering problems.
• To demonstrate proficiency in the use of software and hardware which are required to practice electrical engineering problems.
PRINCIPAL
SIDDHARTHA
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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, 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 practices.

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 presentation 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. Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

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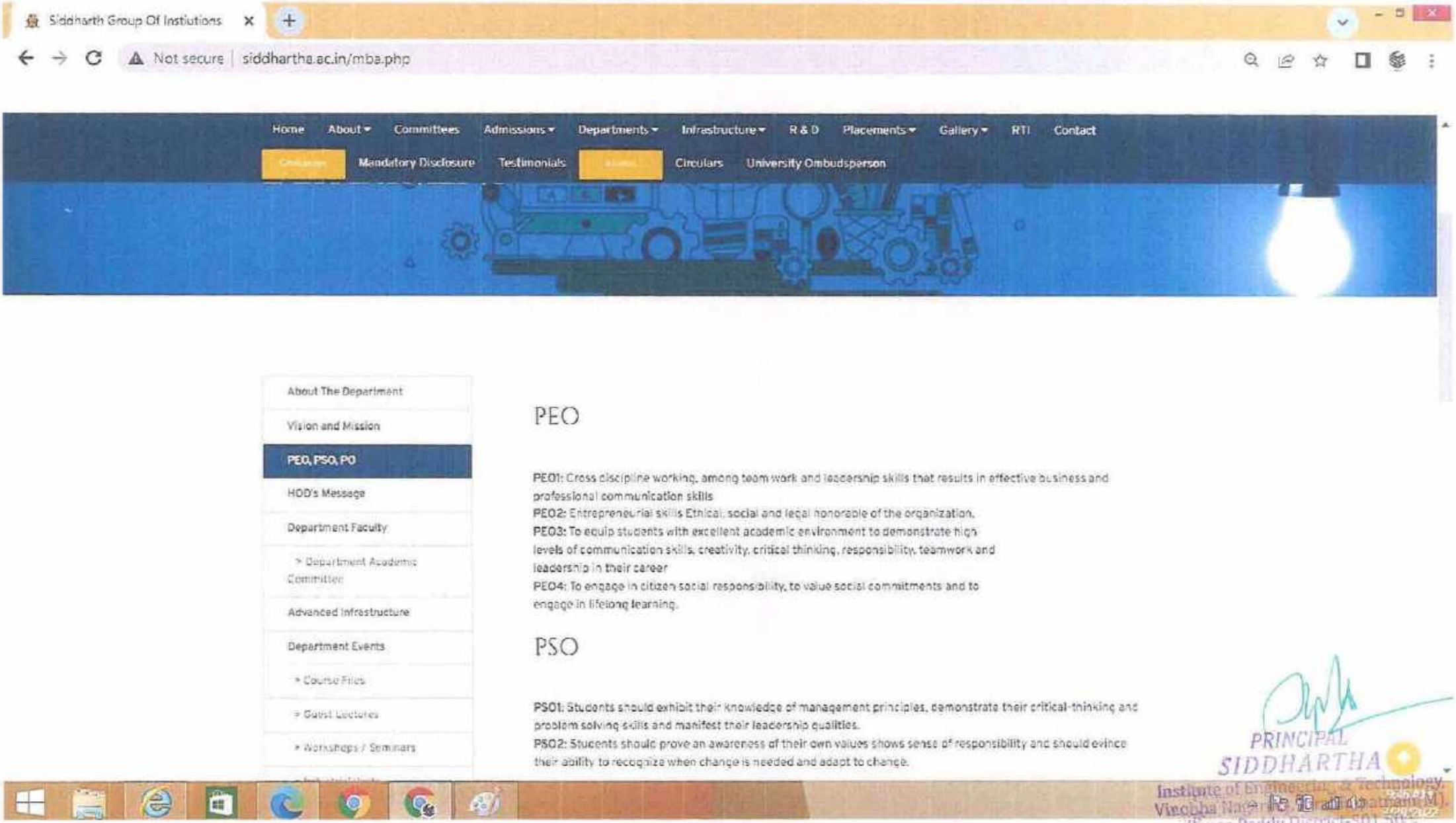

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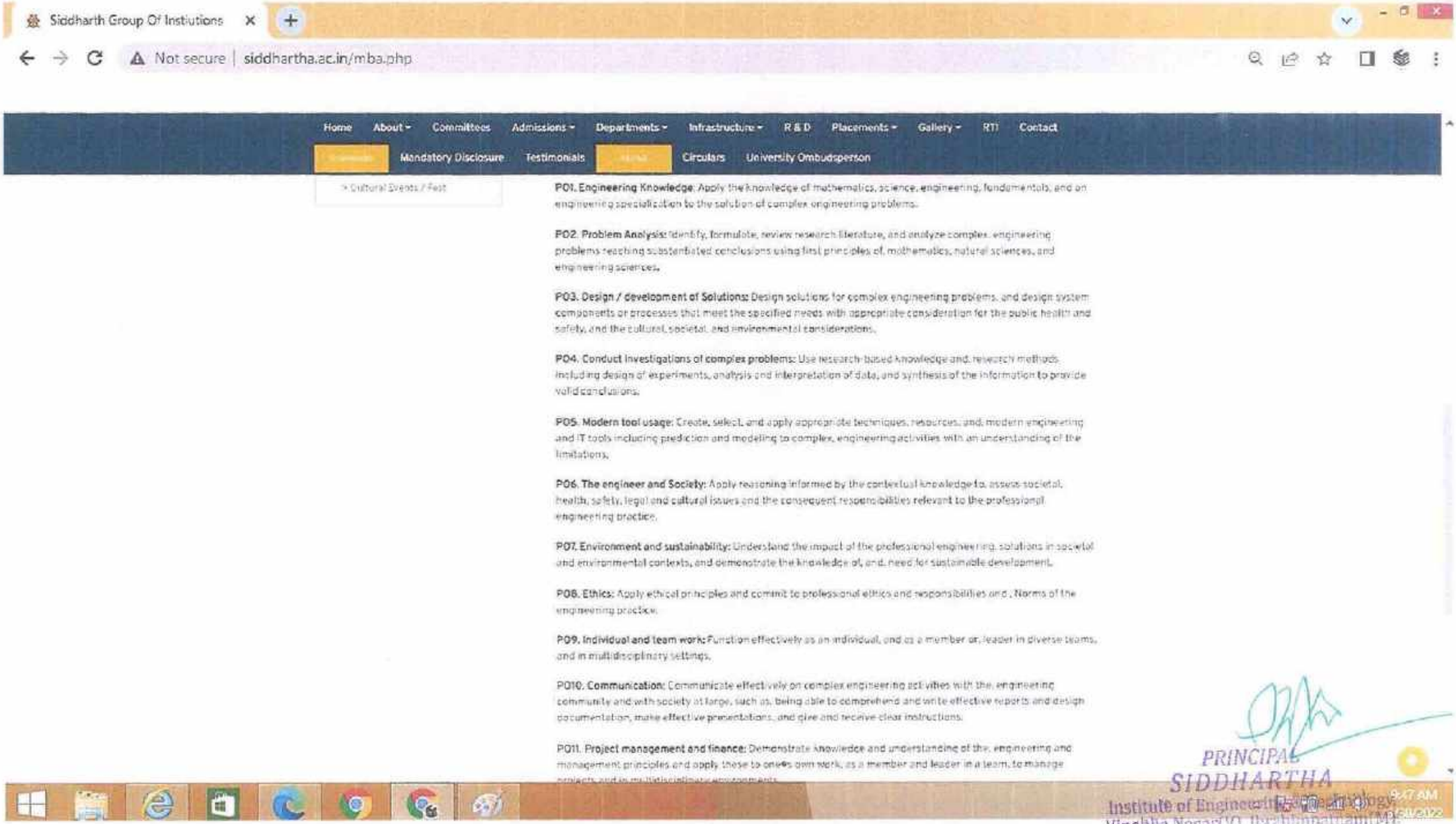
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PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering, fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2. Problem Analysis: Identify, formulate, review research literature, 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.
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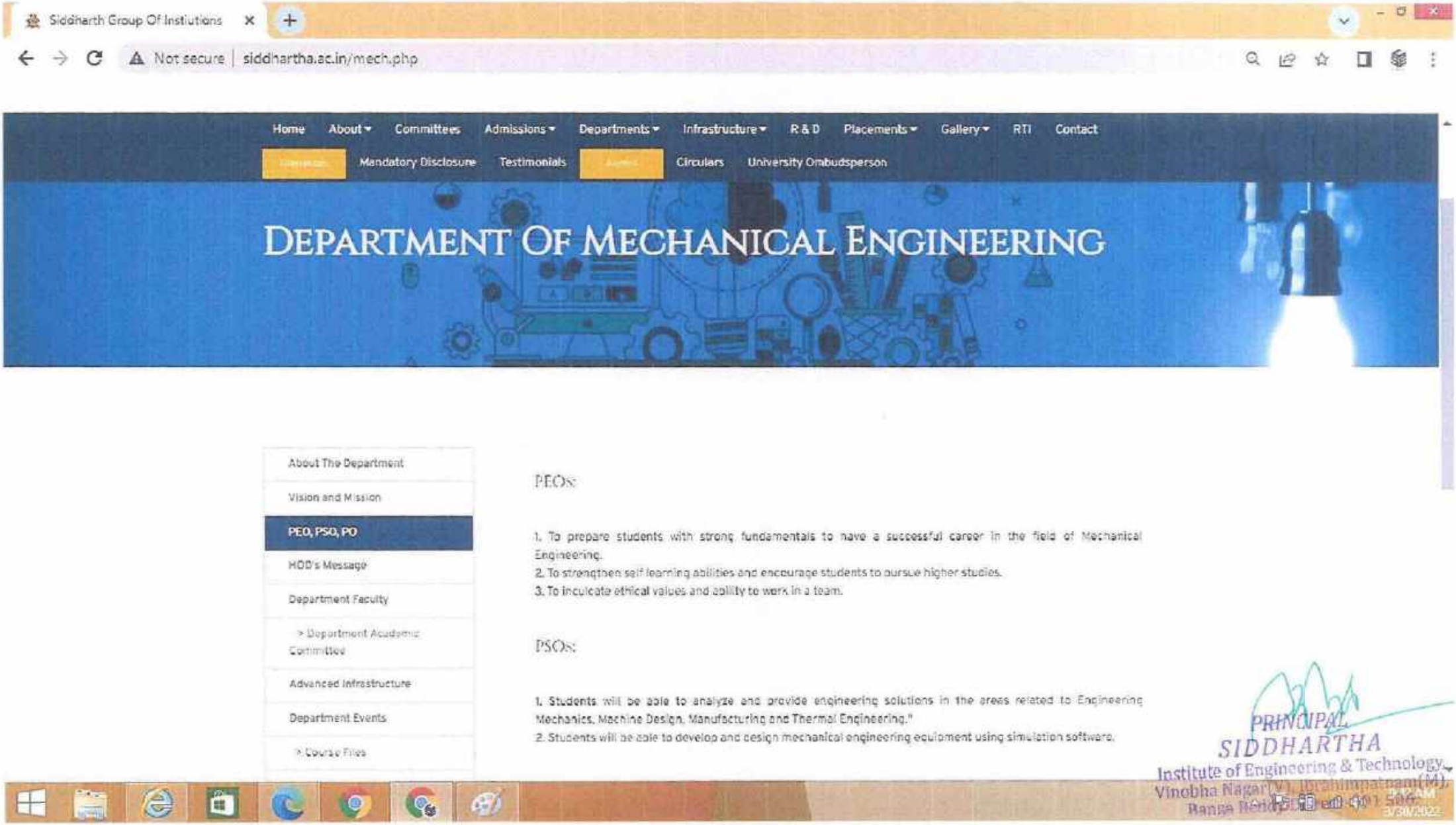
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DEPARTMENT OF MECHANICAL ENGINEERING
About The Department
Vision and Mission
PEO, PSO, PO
HOD's Message
Department Faculty
> Department Academic Committee
Advanced Infrastructure
Department Events
> Course Files
PEOs:
1. To prepare students with strong fundamentals to have a successful career in the field of Mechanical Engineering.
2. To strengthen self learning abilities and encourage students to pursue higher studies.
3. To inculcate ethical values and ability to work in a team.
PSOs:
1. Students will be able to analyze and provide engineering solutions in the areas related to Engineering Mechanics, Machine Design, Manufacturing and Thermal Engineering."
2. Students will be able to develop and design mechanical engineering equipment using simulation software.
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PROGRAMME EDUCATIONAL OBJECTIVES:

PEO1 : To develop mathematical, analytical and computational ability to solve software problems by applying innovative technical tools.

PEO2 : To make Students employable as software professionals and be able to embrace lifelong learning with professional ethics.

PEO3 : To make students deal with multidisciplinary project teams having effective communication and professional skills and leadership qualities

PROGRAMME OUTCOMES:

PO 1: Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem Analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO 3: Design/ Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

PO 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 information to provide valid conclusions.

PO 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

PO 6: The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO 7: Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO 9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO 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.

PO 11: Project Management and Finance: Demonstrate knowledge and understanding of 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

PO 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.

PROGRAMME SPECIFIC OUTCOMES:

PSO 1: Expertise on the contemporary skills towards development of innovative apps and firmware products

PSO 2: Capable to participate in the construction of software systems of varying complexity.

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Course Outcomes of Data Structures through C++

Sub: Data Structures through C++	Year/Sem: II-I	A.Y. 2018-19	Code: CS302ES
CS302ES.1	Able to **understand** the abstract data type, and their basic usage in different applications.		
CS302ES.2	**Choose** appropriate data structures to represent data items in real world problems.		
CS302ES.3	**Apply** appropriate searching and sorting technique for solving specific task.		
CS302ES.4	Develop Pattern matching algorithm.		
CS302ES.5	**Design** programs using a variety of data structures such as stacks, queues, trees, and graphs		

CO and PO Mapping Matrix

Sub: Data Structures through C++	Year/Sem: II-I	A.Y. 2018-19	Code: CS302ES

CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS302ES.1	3	3	3	2	2	2	3	-	2	-	-	2
CS302ES.2	3	3	3	2	2	2	2	-	2	-	-	2
CS302ES.3	3	2	3	2	2	3	2	-	2	-	-	2
CS302ES.4	2	3	2	3	2	2	2	-	2	-	-	2
CS302ES.5	3	3	3	2	2	3	3	-	2	-	-	2
AVERAGE	**2.8**	**2.8**	**2.8**	**2.4**	**2**	**2.4**	**2.4**	-	**2**	-	-	**2**

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS302ES.1	1	1
CS302ES.2	2	2
CS302ES.3	2	2
CS302ES.4	1	1
CS302ES.5	2	2
Average	**1.6**	**1.6**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) **2-Moderate (Medium)** **3-Substantial (High)** **"-"No Correlation**

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Course Outcomes of Mathematical Foundations of Computer Science

Sub: Mathematical Foundations of Computer Science Year/Sem: II-I A.Y. 2018-19 Code: CS303ES	
CS303ES.1	**Illustrate** various formal proof methods for validating the arguments.
CS303ES.2	**Discuss** various types of relations, functions and algebraic structures.
CS303ES.3	**Apply** counting techniques to solve computational problems.
CS303ES.4	**Summarize** various techniques to solve the recurrence relations.
CS303ES.5	**Classify** the graph theory techniques and also able to solve real world problems.

CO and PO Mapping Matrix

Sub: Mathematical Foundations of Computer Science Year/Sem: II-I A.Y. 2018-19 Code: CS303ES												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS303ES.1	2	3	2	-	-	1	1	1	-	-	2	1
CS303ES.2	2	3	3	-	-	2	1	1	-	-	1	1
CS303ES.3	3	3	3	-	-	2	2	2	-	-	3	2
CS303ES.4	2	3	3	-	-	1	1	2	-	-	1	1
CS303ES.5	3	3	2	-	-	1	1	1	-	-	1	2
AVERAGE	2.4	2.4	2.6	-	-	1.4	1.2	1.4	-	-	1.6	1.4

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS303ES.1	1	1
CS303ES.2	2	2
CS303ES.3	2	2
CS303ES.4	2	2
CS303ES.5	1	1
AVERAGE	**1.6**	**1.6**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) "-"No Correlation

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Course Outcome of Digital Logic Design

Sub: Digital Logic Design	Year/Sem:II-I	A.Y. 2018-19	Subject Code : CS304ES
CS304ES.1	Recall number systems, binary addition and subtraction, 2's complement representation and solve problems using this representation.		
CS304ES.2	**Identify** the importance of SOP and POS canonical forms in the minimization or other optimization of Boolean formulas in general and digital circuits.		
CS304ES.3	**Evaluate** functions using various types of minimizing algorithms like Boolean algebra, Karnaugh map or tabulation method.		
CS304ES.4	Compare and contrast different types of latches and flip-flops.		
CS304ES.5	**Analyze** the design procedure of Combinational and Sequential logic circuits.		

CO and PO Mapping Matrix

Sub: Digital Logic Design			Year/Sem:II-I		A.Y. 2018-19				Subject Code : CS304ES		
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS304ES.1	2	3	3	1	2	2	-	-	-	1	-	-
CS304ES.2	3	2	3	1	1	1	-	-	-	2	-	-
CS304ES.3	2	2	3	2	2	1	-	-	-	1	-	-
CS304ES.4	2	2	2	1	1	1	-	-	-	2	-	-
CS304ES.5	2	2	3	1	2	1	-	-	-	2	-	-
AVERAGE	**2.2**	**2.2**	**2.8**	**1.2**	**1.6**	**1.2**	-	-	-	**1.6**	-	-

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS304ES.1	-	-
CS304ES.2	-	-
CS304ES.3	1	1
CS304ES.4	-	-
CS304ES.5	-	-
AVERAGE	**1**	**1**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) "-"No Correlation

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Course Outcomes of Object Oriented Programming through Java

Sub : Object Oriented Programming through Java Year/Sem: II-I A.Y. 2018-19 Code : CS305ES	
CS305ES.1	**Learn** the basic OOPs concepts in java programming and apply to solve the problems using the above concepts.
CS305ES.2	**Illustrate** the concept of interface and abstract classes with real world applications.
CS305ES.3	**Identify** the impact of exception handling techniques and apply them in execution of any error-based program.
CS305ES.4	**Apply** array lists, queues, stacks, dictionaries and hash table. Using java collection framework and I/O classes to solve problems.
CS305ES.5	**Build** the dynamic applications using the concept of swings and applets.

CO and PO Mapping Matrix

Sub : Object Oriented Programming through Java Year/Sem: II-I A.Y. 2018-19 Code : CS305ES												
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS305ES.1	3	3	3	3	1	2	2	-	1	2	1	-
CS305ES.2	3	3	3	2	3	2	2	-	1	2	1	-
CS305ES.3	3	3	2	2	1	2	2	-	1	2	1	-
CS305ES.4	3	3	2	2	3	2	2	-	1	1	1	-
CS305ES.5	3	3	2	2	3	2	2	-	1	1	1	-
AVERAGE	**3**	**3**	**2.4**	**2.2**	**2.2**	**2**	**2**	**-**	**1.6**	**1.6**	**1**	**-**

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS305ES.1	2	2
CS305ES.2	1	1
CS305ES.3	2	2
CS305ES.4	2	2
CS305ES.5	2	2
AVERAGE	**1.8**	**1.8**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) "-"No Correlation

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Course Outcomes of Computer Organization

Sub : Computer Organization	Year/Sem: II-II A.Y. 2018-19 Subject Code : CS401BS
CS401BS.1	Differentiate Instruction formats classification based on number of operands, size of instruction, and way of accessing the data.
CS401BS.2	Learn different I/O data transfer techniques with performance comparison.
CS401BS.3	Describe memory Management, performance and cost comparison of different types of memory.
CS401BS.4	Illustrate the use of segmentation in 8086.
CS401BS.5	Develop sorting of given numbers using 8086 assembly language.

CO and PO Mapping Matrix

Sub : Computer Organization			Year/Sem: II-II		A.Y. 2018-19			Subject Code : CS401BS			
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS401BS.1	3	2	2	3	2	2	2	-	-	-	-	-
CS401BS.2	2	2	2	3	2	2	2	-	-	-	-	-
CS401BS.3	3	3	2	2	3	2	2	-	-	-	-	-
CS401BS.4	2	3	3	2	2	2	2	-	-	-	-	-
CS401BS.5	3	3	3	2	2	2	2	-	-	-	-	-
AVERAGE	**2.6**	**2.6**	**2.4**	**2.4**	**2.2**	**2**	**2**	-	-	-	-	-

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS401BS.1	3	3
CS401BS.2	3	3
CS401BS.3	2	2
CS401BS.4	2	2
CS401BS.5	3	3
AVERAGE	**2.6**	**2.6**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) "-"No Correlation

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Course Outcomes of Database Management System

Subject : Database Management System	Year/Sem:II-II	A.Y. 2018-19	Code :CS402ES
CS402ES.1	Identify the basic elements of a relational database management system		
CS402ES.2	Examine the data models and apply to solve the relevant problems associated with it		
CS402ES.3	Design entity relationship model and convert entity relationship diagrams into RDBMS and formulate SQL queries on the data.		
CS402ES.4	Correlate normalization for the development of application software and the use of SQL for database creation and maintenance.		
CS402ES.5	Compare different storage structures.		

CO and PO Mapping Matrix

Subject : Database Management System				Year/Sem:II-II		A.Y. 2018-19		Code :CS402ES			
CO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CS402ES.1	3	2	2	2	3	2	2	-	2	3	-	-
CS402ES.2	2	3	3	2	3	2	2	-	2	3	-	-
CS402ES.3	2	2	3	2	3	2	2	-	2	3	-	-
CS402ES.4	3	2	3	2	2	2	2	-	2	2	-	-
CS402ES.5	2	2	3	2	3	2	2	-	2	2	-	-
AVERAGE	**2.4**	**2.2**	**2.8**	**2**	**2.8**	**2**	**2**	-	**2**	**2.6**	-	-

CO and PSO Mapping Matrix

CO'S	PSO1	PSO2
CS402ES.1	3	3
CS402ES.2	2	2
CS402ES.3	2	2
CS402ES.4	3	3
CS402ES.5	2	2
AVERAGE	**2.4**	**2.4**

Correlation Level 1, 2, or 3 as defined below.

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High) "-"No Correlation

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Program Level CO-PO Mapping(A.Y. : 2018-19)

S.No.	Code	Name	Program Outcomes											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
B.Tech I Year														
1	C101	Mathematics - I	1.5	1.5	1.5	1.5	1.5	1.5	-	-	1.5	1.5	1.5	1.5
2	C102	Chemistry	1.5	1.5	1.5	1.5	1.5	1.5	-	-	1.5	-	1.5	1.5
3	C103	Basic Electrical Engineering	1.5	1.5	1.5	1.5	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	C104	Engineering Workshop	1.5	1.5	1.5	1.5	1.5	-	1.5	-	1.5	1.5	-	1.5
5	C105	English	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
6	C106	Engineering Chemistry Lab	2.25	-	-	-	-	-	-	-	2.25	-	-	-
7	C107	English Language And Communication Skills Lab	3	2	3	3	3	3	3	3	3	3	3	3
8	C108	Basic Electrical Engineering Lab	1.5	1.5	1.5	1.5	-	1.5	1.5	1.5	1.5	1.5	1.5	1.5
9	C109	Environmental Science	2.25	2.25	2.25	2.25	2.25	2.25	-	-	2.25	2.25	2.25	2.25
10	C110	Mathematics - II	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
11	C111	Applied Physics	1.5	1.5	1.5	-	-	-	-	-	-	-	-	-
12	C112	Programming For Problem Solving	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
13	C113	Engineering Graphics	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
14	C114	Applied Physics Lab	-	-	-	3	-	-	-	-	-	-	-	-
15	C115	Programming For Problem Solving Lab	3	3	3	3	3	3	3	3	3	3	3	3
B.Tech II Year														
16	C201	Mathematics – Iv	1.5	1.5	0.5	0.5	-	-	-	-	-	-	-	0.5
17	C202	Data Structures Through C++	2.1	2.1	2.1	1.8	1.5	1.8	1.8	-	1.5	-	-	1.5
18	C203	Mathematical Foundations Of Computer Science	1.8	1.8	1.95	-	-	1.05	-	1.05	-	-	1.2	1.05
19	C204	Digital Logic Design	1.1	1.1	1.4	-	0.8	-	-	-	-	0.8	-	-
20	C205	Object Oriented Programming Through Java	1.5	1.5	1.2	1.1	1.1	1	1	-	0.8	0.8	-	-
21	C206	Data Structures Through C++ Lab	3	3	2.6	2.4	3	2	3	-	2	-	-	-

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22	C207	It Workshop	2.4	2.6	2.4	-	2.6	2	2	-	2	1.75	1.8	1.8
23	C208	Object Oriented Programming Through Java Lab	2.8	2.8	2.6	2	2.6	2	-	-	2	1.8	-	1.6
24	C209	Computer Organization	2.6	2.6	2.4	2.4	2.2	2	2	-	-	-	-	-
25	C210	Database Management Systems	1.2	1.1	1.4	1	1.4	1	1	-	1	1.3	-	-
26	C211	Operating Systems	2.1	1.8	1.8	2.06 25	1.05	1.35	-	-	-	-	-	-
27	C212	Formal Languages And Automata Theory	1.5	2.25	1.2	0.75	0.75	0.75	0.75	-	-	-	-	-
28	C213	Business Economics And Financial Analysis	1.2	1	-	1	1.2	-	1.2	-	-	-	1.8	-
29	C214	Computer Organization Lab	2	1.8	3	3	3	1	-	-	-	-	-	-
30	C215	Database Management Systems Lab	2.6	2.6	2	2	3	2	-	-	-	1.4	2	1.2
31	C216	Operating Systems Lab	2.5	2.5	2.75	2.25	3	1	-	-	1.5	-	2.5	1
B.Tech III Year														
32	C301	Design and Analysis of Algorithms	2.25	1.35	2.25	2.25	2.25	-	-	-	-	-	1.5	1.35
33	C302	Data Communication and Computer Networks	2.25	1.5	0.975	0.75	0.75	-	-	-	-	1.35	0.75	-
34	C303	Software Engineering	1.2	1.2	1.2	1.1	1.375	1	-	-	1	1	1	0.7
35	C304	Fundamentals of Management	0.7	0.7	0.8	-	0.6	0.6	0.8	-	0.7	0.7	0.7	0.6
36	C305	Principles of Electronic Communications	1	2	2	-	2	1	1	-	2	3	-	3
37	C306	Design and Analysis of Algorithms Lab	3	2.8	3	2	3	2	2	-	1	-	-	-
38	C307	Computer Networks Lab	3	3	3	3	3	2	2	-	1	2	-	2
39	C308	Software Engineering Lab	3	3	3	3	3	3	2	2	2	1.25	3	2
40	C309	Compiler Design	1.1	0.83	1	-	0.7	1.5	-	-	-	-	-	-
41	C310	Web Technologies	3	2.6	2.2	1.2	2.6	-	3	-	-	-	-	-
42	C311	Cryptography and Network Security	1.65	1.5	1.35	1.5	-	1.35	1.5	-	1.5	-	0.9	1.2
43	C312	Principles of Computer	1	1	1	1	1	1	-	-	-	3	2	2

PRINCIPAL
SIDDHARTHA
Institute of Engineering & Technology,
Vinobha Nagar(V), Ibrahimpatnam(M),
Ranga Reddy District-501 506.

		Communications and Networks												
44	C313	Artificial Intelligence	1.5	1.125	0.5	0.5	-	-	-	-	-	1	-	-
45	C314	Cryptography and Network Security Lab	3	3	3	3	3	2	2	-	2	1	-	1
46	C315	Web Technologies Lab	1.4	1.4	3	1.4	3	3	-	-	2	3	-	2
47	C316	Advanced English Communication Skills Lab	-	-	-	-	-	-	-	1.8	1.8	2.2	2	2.4
B.Tech IV Year														
48	C401	Linux Programming	1.95	-	1.65	1.5	1.8	2.25	1.2	-	1.95	1.8	1.95	-
49	C402	Design Patterns	0.8	0.8	0.8	-	-	-	-	-	-	-	0.8	-
50	C403	Data Warehousing and Data Mining	2.2	2	1.3	1.6	2.3	-	-	-	2	-	-	-
51	C404	Cloud Computing	1.8	1.245	2.1	1.35	-	-	1.125	-	1.5	-	1.5	1.5
52	C405	Software Project Management	1.35	1.65	1.5	1.2	-	1.245	1.5	-	1.5	1.5	1.5	1.35
53	C406	Information Retrieval Systems	1	1	1.2	1.2	0.75	0.7	0.7	-	-	1	0.7	-
54	C407	Linux Programming Lab	2.25	1	2.25	1.5	2	-	-	-	-	-	-	-
55	C408	Data Warehousing and Mining Lab	2.4	2.4	2.8	2.2	2.8	2	2	-	2	3	2.4	-
56	C409	Management Science	-	-	1.65	1.5	-	0.75	1.2	1.35	-	-	1.05	
57	C410	Web Services	0.8	0.7	0.7	0.5	-	-	-	-	-	-	-	-
58	C411	Database Security	2.25	1.5	1.5	1.125	2.25	-	-	-	2.25	-	-	2.25
59	C412	Industry Oriented Mini Project	2.2	2.6	2.6	2	2.4	1.6	1.8	1	1.8	2.6	2.6	1.6
60	C413	Seminar	2	1.5	-	2.75	2	-	-	-	-	3	-	3
61	C414	Project Work	2	1.5	1.25	1.25	3	2	1.75	-	2	2.5	1.75	1.33
62	C415	Comprehensive Viva	2.6	2.6	2	-	-	-	-	3	3	2.33	-	2
Average			**1.976**	**1.829**	**1.887**	**1.75**	**2.0353**	**1.6661**	**1.6984**	**1.7375**	**1.7744**	**1.8592**	**1.766**	**1.7281**

PRINCIPAL
SIDDHARTHA
Institute of Engineering & Technology,
Vinobha Nagar(V), Ibrahimpatnam(M),
Ranga Reddy District-501 506.

Program Level CO-PSO Average(A. Y. 2018-19)

S.No.	Code	Name	PSO	
			PSO1	PSO2
B.Tech I Year				
1	C101	Mathematics - I	1.5	1.5
2	C102	Chemistry	1.5	1.5
3	C103	Basic Electrical Engineering	1.5	1.5
4	C104	Engineering Workshop	1.5	1.5
5	C105	English	1.5	1.5
6	C106	Engineering Chemistry Lab	2.25	-
7	C107	English Language And Communication Skills Lab	-	-
8	C108	Basic Electrical Engineering Lab	1.5	1.5
9	C109	Environmental Science	2.25	2.25
10	C110	Mathematics - Ii	1.5	1.5
11	C111	Applied Physics	1.5	-
12	C112	Programming For Problem Solving	1.5	1.5
13	C113	Engineering Graphics	1.5	1.5
14	C114	Applied Physics Lab	-	3
15	C115	Programming For Problem Solving Lab	-	-
B.Tech II Year				
16	C201	Mathematics – Iv	-	-
17	C202	Data Structures Through C++	1.2	1.2
18	C203	Mathematical Foundations Of Computer Science	1.2	1.2
19	C204	Digital Logic Design	0.5	0.5
20	C205	Object Oriented Programming Through Java	0.9	0.9
21	C206	Data Structures Through C++ Lab	2.2	2.4
22	C207	It Workshop	2	2

PRINCIPAL
SIDDHARTHA
Institute of Engineering & Technology,
Vinobha Nagar (V), Ibrahimpatnam (M),
Ranga Reddy District-501 506.

23	C208	Object Oriented Programming Through Java Lab	2	2
24	C209	Computer Organization	2.6	2.6
25	C210	Database Management Systems	1.2	1.2
26	C211	Operating Systems	1.2	1.2
27	C212	Formal Languages And Automata Theory	1.6875	1.5
28	C213	Business Economics And Financial Analysis	2.2	2.6
29	C214	Computer Organization Lab	2.67	2.67
30	C215	Database Management Systems Lab	3	3
31	C216	Operating Systems Lab	3	3
B.Tech III Year				
32	C301	Design and Analysis of Algorithms	1.95	1.95
33	C302	Data Communication and Computer Networks	1.5	1.5
34	C303	Software Engineering	1	1.2
35	C304	Fundamentals of Management	1.2	1.1
36	C305	Principles of Electronic Communications	1	1
37	C306	Design and Analysis of Algorithms Lab	1.8	1.8
38	C307	Computer Networks Lab	2.6	2.6
39	C308	Software Engineering Lab	2	2
40	C309	Compiler Design	0.83	1
41	C310	Web Technologies	2.2	3
42	C311	Cryptography and Network Security	1.5	0.75
43	C312	Principles of Computer Communications and Networks	1	1
44	C313	Artificial Intelligence	0.7	0.875
45	C314	Cryptography and Network Security Lab	1.75	1.75
46	C315	Web Technologies Lab	3	3
47	C316	Advanced English Communication Skills Lab	-	-
B.Tech IV Year				

PRINCIPAL
SIDDHARTHA
Institute of Engineering & Technology,
Vinobha Nagar(V), Ibrahimpatnam(M),
Ranga Reddy District-501 506.

48	C401	Linux Programming	-	0.975
49	C402	Design Patterns	0.5	-
50	C403	Data Warehousing and Data Mining	2	1.8
51	C404	Cloud Computing	1.2	1.2
52	C405	Software Project Management	1.5	1.5
53	C406	Information Retrieval Systems	0.5	0.5
54	C407	Linux Programming Lab	1.67	1.67
55	C408	Data Warehousing and Mining Lab	1.66	1.75
56	C409	Management Science	1.8	1.5
57	C410	Web Services	0.8	0.7
58	C411	Database Security	1.125	1.5
59	C412	Industry Oriented Mini Project	2.5	2.5
60	C413	Seminar	1.5	1.8
61	C414	Project Work	3	3
62	C415	Comprehensive Viva	3	3
Average			**1.7521**	**1.7779**

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Institute of Engineering & Technology
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