



# VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN

Approved by AICTE, Affiliated to JNT University, Kakinada.  
An ISO 9001:2015 Certified Institute  
College Code : NP

Enikepadu, VIJAYAWADA- 521 108.  
Telephone No. : 0866 - 2844444  
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ENIKEPADU, VIJAYAWADA-521 108.





# VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN

An ISO 9001:2015 Certified Institute, Approved by AICTE, Affiliated to JNTU Kakinada, AP

Phone: 0866-2844444, Email: [vijayatechfw@gmail.com](mailto:vijayatechfw@gmail.com) Website: [www.vitw.edu.in](http://www.vitw.edu.in)

College Code: NP, Enikepadu, Vijayawada-521108

## Screen capture taken from CSE Department website

The screenshot displays the website of the Department of Computer Science and Engineering (CSE) at Vijaya Institute of Technology for Women, Enikepadu, Vijayawada - 521108. The page features a navigation bar with links to Home, About Us, Academics, Departments, Intern Cell, Placements, MoUs, Activities, Approvals, Campus Life, Alumni, Publications, and SQA. The main content area is titled 'DEPARTMENT OF CSE' and includes a sidebar with links to 'About the Department', 'Vision and Mission', 'POs/HOIs/COs', 'HOD's Profile', 'Faculty', 'Syllabus', 'Faculty Activities', 'Student Activities', and 'Achievements'. The main text area is titled 'PROGRAM OUTCOMES (PO)' and lists five outcomes as defined by NBA (PO):

- 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 analyse 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 user:** 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.

At the bottom of the screenshot, a Google Maps location pin is shown for Vijayawada, Andhra Pradesh, India, with the address 12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India. The coordinates are Lat 16.512908° and Long 80.695166°. The timestamp is 07/08/24 11:52 AM GMT +05:30. A 'GPS Map Camera' logo is also visible.



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College Code: NP, Enikepadu, Vijayawada-521108

## Screen capture taken from CSE Department website

The screenshot displays the CSE Department website with a navigation bar at the top. The main content area lists Program Specific Outcomes (PSOs) for the CSE program, including:

- 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.

Below the PSOs, there is a Google Maps location pin for Vijayawada, Andhra Pradesh, India, with the following details:

- Vijayawada, Andhra Pradesh, India
- 12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India
- Lat 16.512908°
- Long 80.695166°
- 07/08/24 11:52 AM GMT +05:30



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## PO's Photo taken from CSE Department CSE FF-3



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## CO's Photo taken from CSE Department CSE lab-2



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## Screen capture taken from AIML Department website

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**DEPARTMENT OF IT**

- About the Department
- HOD's Profile
- Vision and Mission
- POI/POs/COs
- Faculty
- Student Activities
- Achievements
- Syllabus

**PROGRAM OUTCOMES (PO)**

**Program Outcomes as defined by NBA (PO)**  
Engineering Graduates will be able to:

**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, experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.512871°  
Long 80.695078°  
07/08/24 11:22 AM GMT +05:30



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## Screen capture taken from AIML Department website

**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.

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.512878°  
Long 80.695127°  
07/08/24 11:32 AM GMT +05:30



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## CO'S Photo taken from AIML LAB

**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**  
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING  
III YEAR I SEMESTER, COURSE OUTCOMES

COMPUTER ORGANIZATION AND SYSTEMS	MACHINE LEARNING LAB	INTRODUCTION TO DATA SCIENCE AND COMPUTING
<ul style="list-style-type: none"><li>Implement various scheduling, page replacement algorithms and algorithms related to deadlocks</li><li>Design programs for shared memory management and semaphores</li><li>Determine predictive parsing table for a CFG</li><li>Apply Lex and Yacc tools</li><li>Examine LR parser and generating SLR Parsing table</li></ul>	<ul style="list-style-type: none"><li>Implement procedures for the machine learning algorithms</li><li>Design and Develop Python programs for various learning algorithms</li><li>Apply appropriate data set to the Machine Learning algorithms</li><li>Develop Machine Learning algorithms to solve real world problems</li></ul>	<ul style="list-style-type: none"><li>Understand the why, what and how of Deep learning</li><li>Apply Library on Develop and Apply capabilities required in the team</li><li>Create an automated OCR application using a stack of tools</li></ul>

**GPS Map Camera**  
Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.512896°  
Long 80.695171°  
01/08/24 09:38 AM GMT +05:30

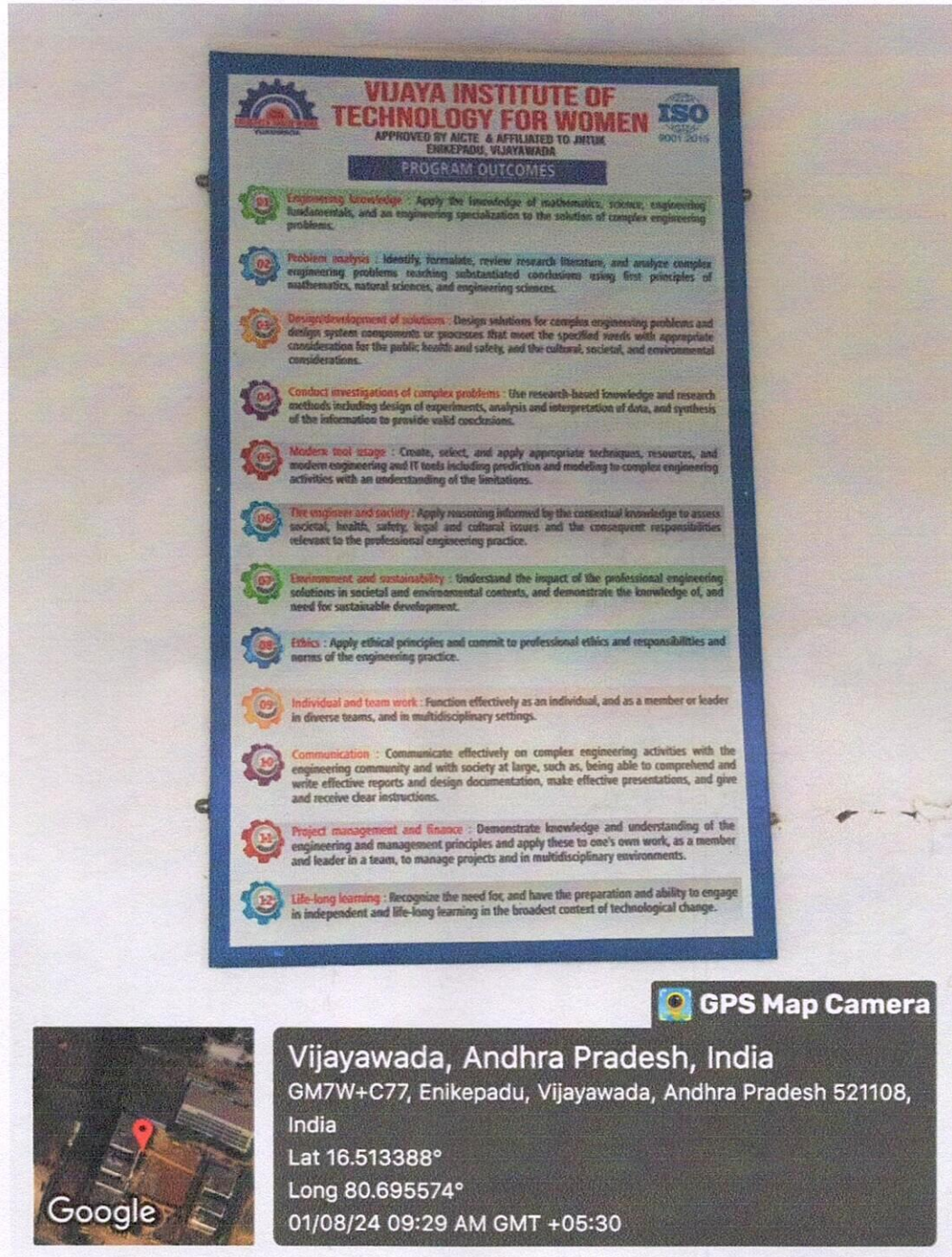
Google



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Photo taken from outside TF-24 AIML-HOD room



**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**  
APPROVED BY AICTE & AFFILIATED TO JNTU  
ENIKEPADU, VIJAYAWADA  
ISO 9001:2015

**PROGRAM OUTCOMES**

- Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
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- Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
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- 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.
- 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.

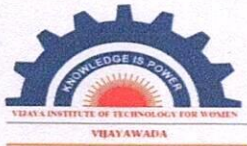
**GPS Map Camera**

Vijayawada, Andhra Pradesh, India  
GM7W+C77, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.513388°  
Long 80.695574°  
01/08/24 09:29 AM GMT +05:30



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College Code: NP, Enikepadu, Vijayawada-521108

## Screen capture taken from IT Department website

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Enikepadu, Vijayawada - 521108

**DEPARTMENT OF IT**

- About the Department
- Vision and Mission
- POs/PSOs/COs
- HOD's Profile
- Faculty
- Syllabus
- Faculty Activities
- Student Activities
- Achievements

**Program Outcomes as defined by NBA (PO)**  
Engineering Graduates will be able to:

**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 requiring substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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**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.

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.512917°  
Long 80.6951°  
07/08/24 11:45 AM GMT +05:30



  
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## Screen capture taken from IT Department website

**PO5:**  
Modern tool usage: Choose, 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:**  
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**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 team leader and member to manage projects and in multidisciplinary environments.

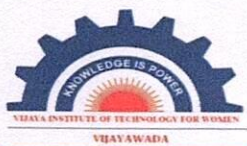
**PO12:**  
Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and the long learning in the broadest context of technological change.

Vijayawada, Andhra Pradesh, India  
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## Screen capture taken from FE Department website

**DEPARTMENT OF FRESHWOMEN**

- About the Department
- Vision and Mission
- POs/COs/PSOs
- HOD's Profile
- Faculty
- SYLLABUS
- Students Activities
- Laboratories
- Department Clubs

**PROGRAM OUTCOMES (POs)**

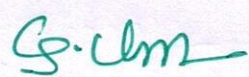
**Freshwomen Engineering Department**

Program: Bachelor of Engineering  
Duration : 4 years  
Programme Outcomes (PO):

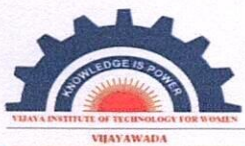
PO No.	Programme Objective	Programme Outcome
PO1	Engineering knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis	Identify, formulate, review research literature, and analyze 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.

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12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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Long 80.69511°  
07/08/24 11:56 AM GMT +05:30



  
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College Code: NP, Enikepadu, Vijayawada-521108

## Screen capture taken from FE Department website

PO	PO Description	PO Description
PO1	Modern tool usage	Grasp, 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.
PO2	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.
PO3	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.
PO4	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO5	Individual and team work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO6	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.
PO7	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.
PO8	Life-long learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the technology and in the associated fields.

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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Long 80.69511°  
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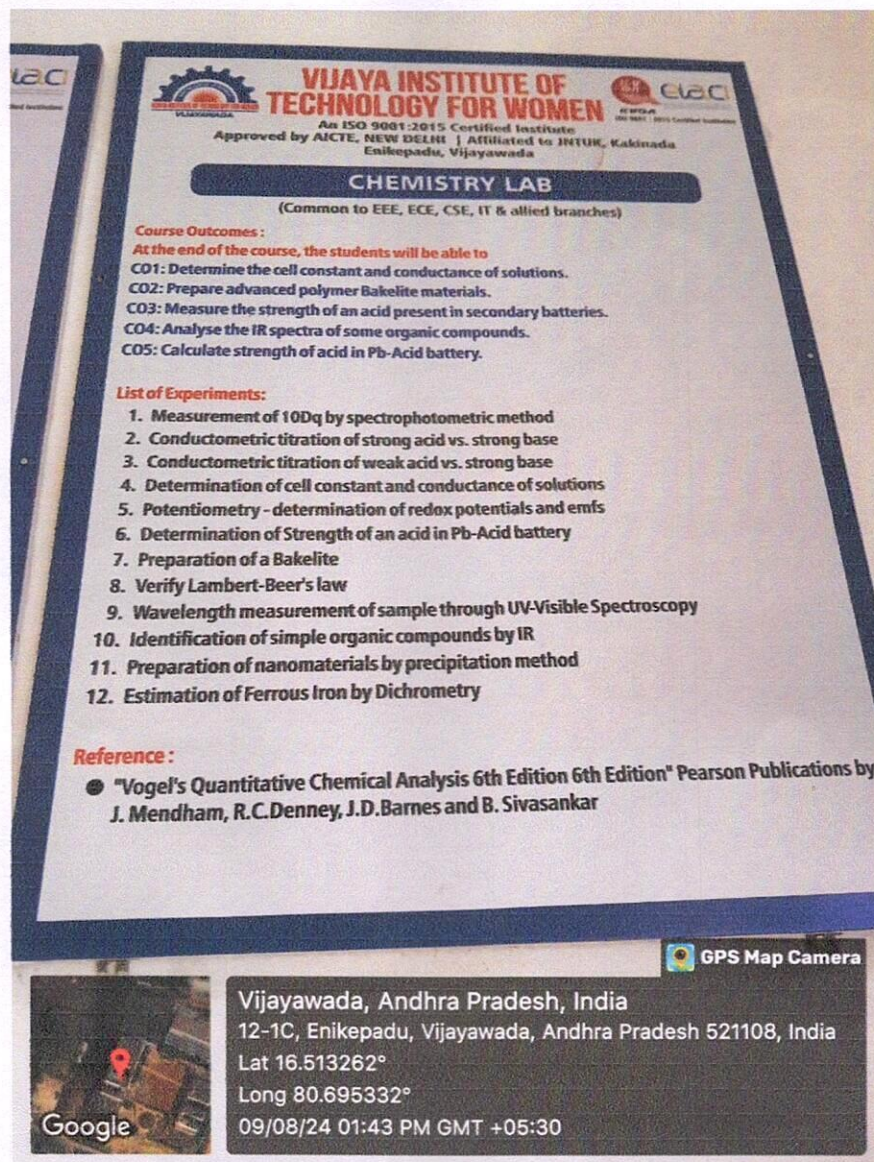
Photo taken from outside of FE Department-HOD room no GF-8



*G. Chm*  
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Photo taken from CHEMISTRY LAB of FE Department room no GF-24



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Enikepadu, Vijayawada

**CHEMISTRY LAB**  
(Common to EEE, ECE, CSE, IT & allied branches)

**Course Outcomes:**  
At the end of the course, the students will be able to  
CO1: Determine the cell constant and conductance of solutions.  
CO2: Prepare advanced polymer Bakelite materials.  
CO3: Measure the strength of an acid present in secondary batteries.  
CO4: Analyse the IR spectra of some organic compounds.  
CO5: Calculate strength of acid in Pb-Acid battery.

**List of Experiments:**

1. Measurement of 10Dq by spectrophotometric method
2. Conductometric titration of strong acid vs. strong base
3. Conductometric titration of weak acid vs. strong base
4. Determination of cell constant and conductance of solutions
5. Potentiometry - determination of redox potentials and emfs
6. Determination of Strength of an acid in Pb-Acid battery
7. Preparation of a Bakelite
8. Verify Lambert-Beer's law
9. Wavelength measurement of sample through UV-Visible Spectroscopy
10. Identification of simple organic compounds by IR
11. Preparation of nanomaterials by precipitation method
12. Estimation of Ferrous Iron by Dichrometry

**Reference:**

- "Vogel's Quantitative Chemical Analysis 6th Edition 6th Edition" Pearson Publications by J. Mendham, R.C.Denney, J.D.Barnes and B. Sivasankar

GPS Map Camera

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.513262°  
Long 80.695332°  
09/08/24 01:43 PM GMT +05:30

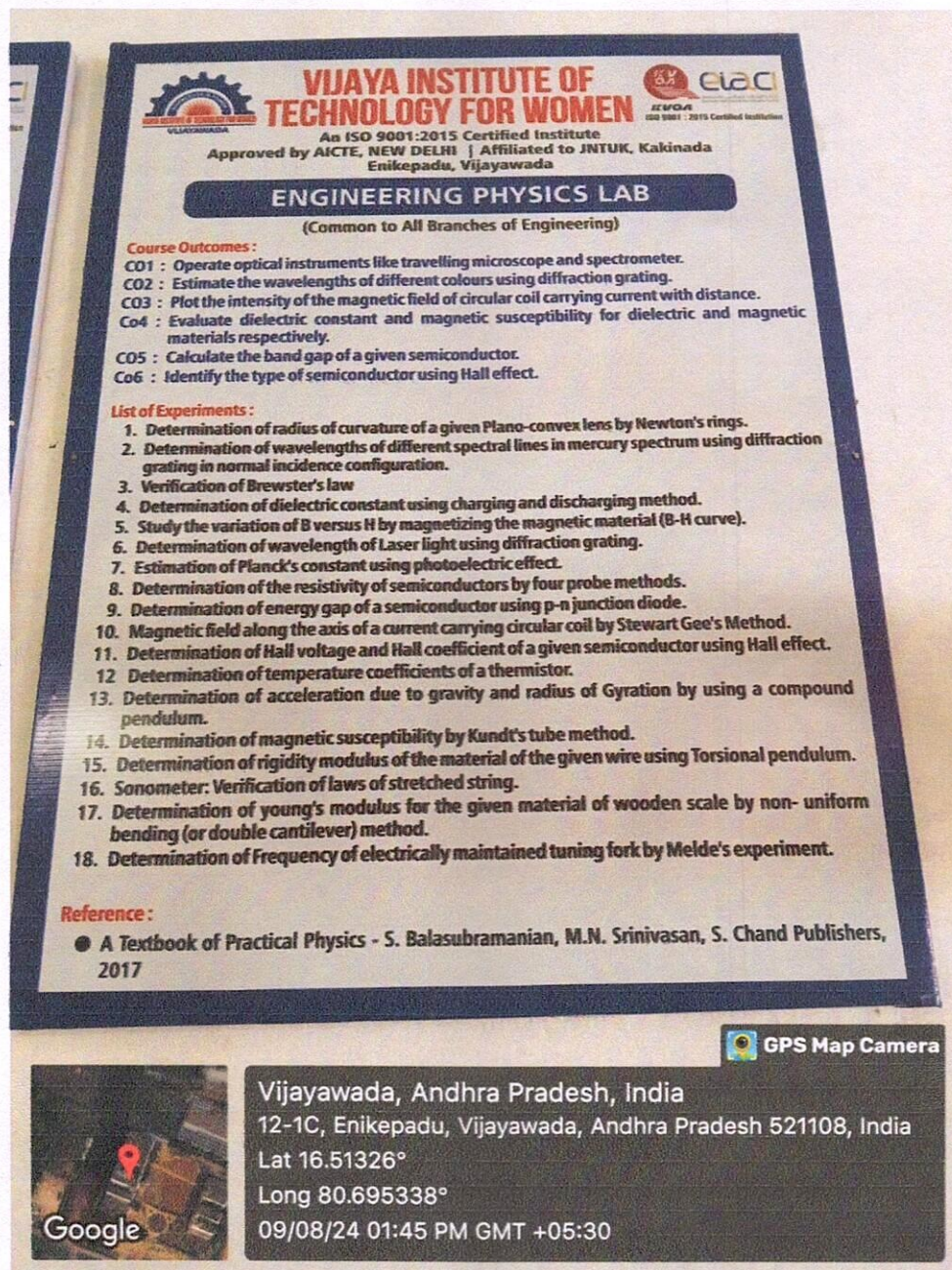
Google



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TECHNOLOGY FOR WOMEN  
ENIKEPADU, VIJAYAWADA-521 108.



Photo taken from PHYSICS LAB of FE Department room no GF-23



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An ISO 9001:2015 Certified Institute  
Approved by AICTE, NEW DELHI | Affiliated to JNTUK, Kakinada  
Enikepadu, Vijayawada

**ENGINEERING PHYSICS LAB**  
(Common to All Branches of Engineering)

**Course Outcomes :**

- CO1 : Operate optical instruments like travelling microscope and spectrometer.
- CO2 : Estimate the wavelengths of different colours using diffraction grating.
- CO3 : Plot the intensity of the magnetic field of circular coil carrying current with distance.
- Co4 : Evaluate dielectric constant and magnetic susceptibility for dielectric and magnetic materials respectively.
- CO5 : Calculate the band gap of a given semiconductor.
- Co6 : Identify the type of semiconductor using Hall effect.

**List of Experiments :**

1. Determination of radius of curvature of a given Plano-convex lens by Newton's rings.
2. Determination of wavelengths of different spectral lines in mercury spectrum using diffraction grating in normal incidence configuration.
3. Verification of Brewster's law
4. Determination of dielectric constant using charging and discharging method.
5. Study the variation of B versus H by magnetizing the magnetic material (B-H curve).
6. Determination of wavelength of Laser light using diffraction grating.
7. Estimation of Planck's constant using photoelectric effect.
8. Determination of the resistivity of semiconductors by four probe methods.
9. Determination of energy gap of a semiconductor using p-n junction diode.
10. Magnetic field along the axis of a current carrying circular coil by Stewart Gee's Method.
11. Determination of Hall voltage and Hall coefficient of a given semiconductor using Hall effect.
12. Determination of temperature coefficients of a thermistor.
13. Determination of acceleration due to gravity and radius of Gyration by using a compound pendulum.
14. Determination of magnetic susceptibility by Kundt's tube method.
15. Determination of rigidity modulus of the material of the given wire using Torsional pendulum.
16. Sonometer: Verification of laws of stretched string.
17. Determination of young's modulus for the given material of wooden scale by non- uniform bending (or double cantilever) method.
18. Determination of Frequency of electrically maintained tuning fork by Melde's experiment.

**Reference :**

- A Textbook of Practical Physics - S. Balasubramanian, M.N. Srinivasan, S. Chand Publishers, 2017

**GPS Map Camera**

Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.51326°  
Long 80.695338°  
09/08/24 01:45 PM GMT +05:30

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College Code: NP, Enikepadu, Vijayawada-521108

## Screen capture taken from ECE Department website

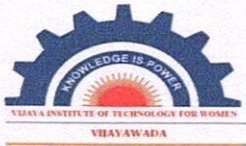
The screenshot displays the ECE Department website. On the left, a sidebar lists navigation links: About the Department, Vision and Mission, POC/PSO/COs, HOD's Profile, Faculty, Syllabus, Faculty Activities, Student Activities, and Achievements. The main content area is titled 'PROGRAM OUTCOMES (PO)' and lists five outcomes (PO1 to PO5) with their descriptions. PO1 is 'Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.' PO2 is '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 is '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 is '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 is '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.' A map of the location is shown in the bottom left corner. A timestamp '09-Aug-2024 1:50:01 pm' and coordinates '16.512673333333332N 80.69537833333333E' are overlaid on the screenshot. The text 'Enikepadu, Vijayawada, Andhra Pradesh' and 'Vijaya Institute of Technology for Women' is also present.

09-Aug-2024 1:50:01 pm  
16.512673333333332N 80.69537833333333E  
Enikepadu  
Vijayawada  
Andhra Pradesh  
Vijaya Institute of Technology for Women



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Screen capture taken from ECE Department website

**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 the ability to engage in independent and life-long learning in the broadest context of technological innovation.


09-Aug-2024 1:50:33 pm  
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Enikepadu  
Vijayawada  
Andhra Pradesh  
Vijaya Institute of Technology for Women



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Photo taken from ECE Department SF-21




## VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN

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ENIKEPADU, VIJAYAWADA




**PROGRAM OUTCOMES**

- 01 **Engineering knowledge** : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 02 **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.
- 03 **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.
- 04 **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.
- 05 **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.
- 06 **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.
- 07 **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.
- 08 **Ethics** : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 09 **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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**Vijayawada, Andhra Pradesh, India**  
GM7W+C77, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
Lat 16.513426°  
Long 80.69538°  
09/08/24 11:52 AM GMT +05:30

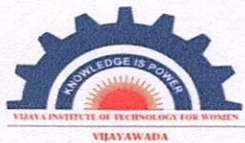


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## CO'S Photo taken from ECE Department SF-21

**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**

Department of  
Electronics and Communication Engineering.  
Course Outcomes

II/II DIGITAL IC DESIGN LAB COURSE CODE : C229	III/I DATA STRUCTURES USING JAVA LAB COURSE CODE : C318
<ul style="list-style-type: none"><li>● Design and implementation of Combinational Logic Circuits (MUX, Encoders etc.,) using software tools.</li><li>● Design and implementation of Sequential Logic Circuits (flip-flops, counters etc.,) using Software tools.</li><li>● Design and implementation of Complex logic circuits (ALU, MAC etc.,) using Software tools.</li></ul>	<ul style="list-style-type: none"><li>● Defend, searching technology and linear data structures like linked list, stack and queue.</li><li>● Describe nonlinear data structure like tree.</li><li>● Elaborate nonlinear data structure like graph and sorting techniques.</li></ul>

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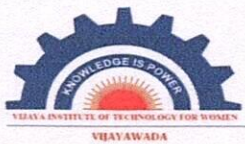
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GM7W+C77, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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## CO'S Photo taken from ECE Department SF-21 ECE LAB

**VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN**

Department of Electronics and Communication Engineering.  
Course Outcomes

III/II VLSI DESIGN LAB COURSE CODE : C328	III/II DIGITAL SIGNAL PROCESSING LAB COURSE CODE : C329
<ul style="list-style-type: none"><li>● Simulate Basic gates with Xilinx VIVADO front and Environment and validate the functionality.</li><li>● Model the sequential circuits using CAD tools in front and environment</li><li>● Design Simulate and Extract layout of digital IC using EDA tools.</li></ul>	<ul style="list-style-type: none"><li>● Understand basic operation on signals and Generate the response using MATLAB and code composer studio.</li><li>● Examine linear, circular convolutions and DFT, IDFT using MATLAB and code composer studio.</li><li>● Understand the Design of IIR and FIR filters using TIDSP starter kit and Cypress FM4 Starterkit.</li></ul>

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GM7W+C77, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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Long 80.69538°  
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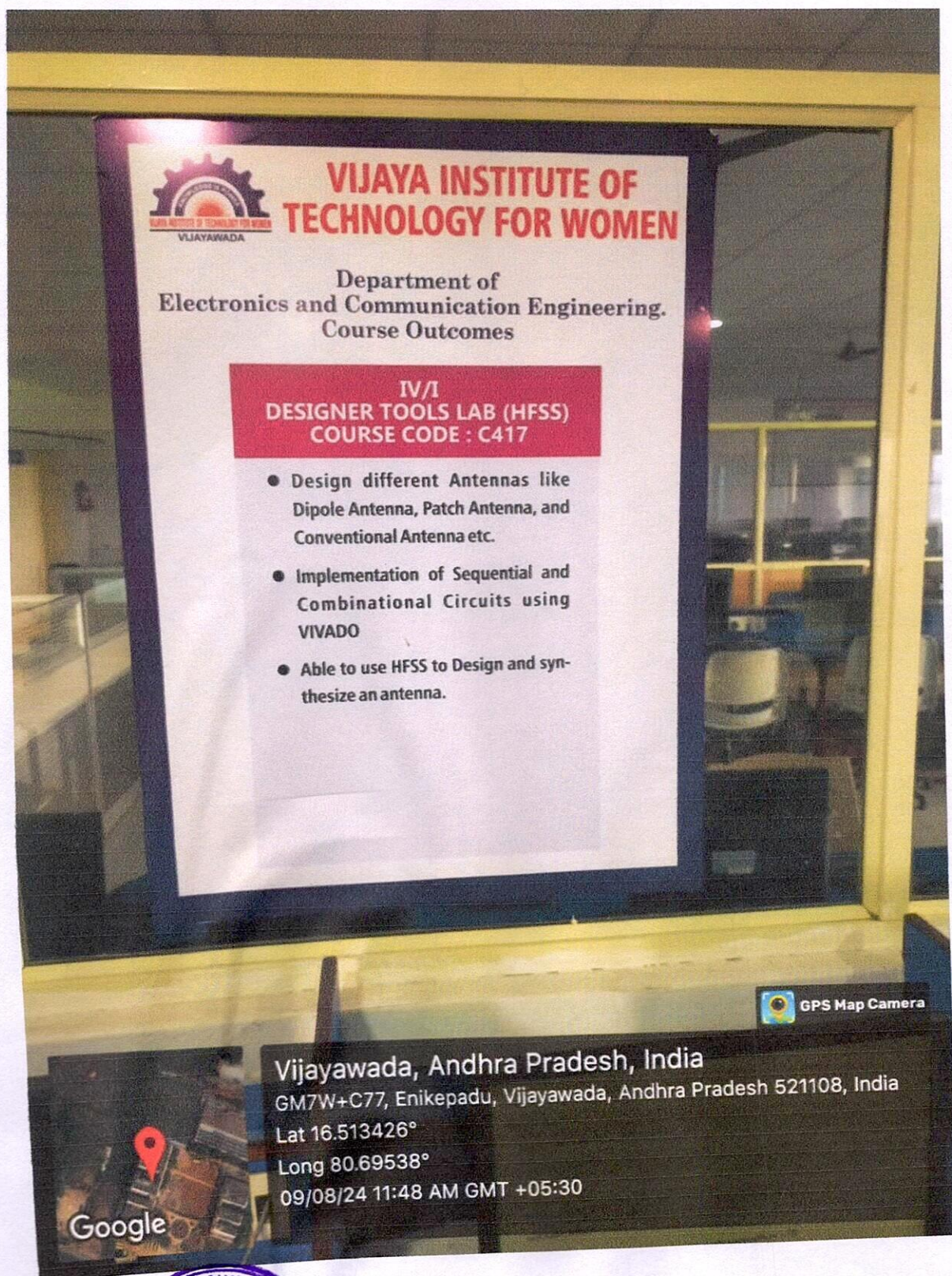
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### CO'S Photo taken from ECE Department SF-21 ECE LAB



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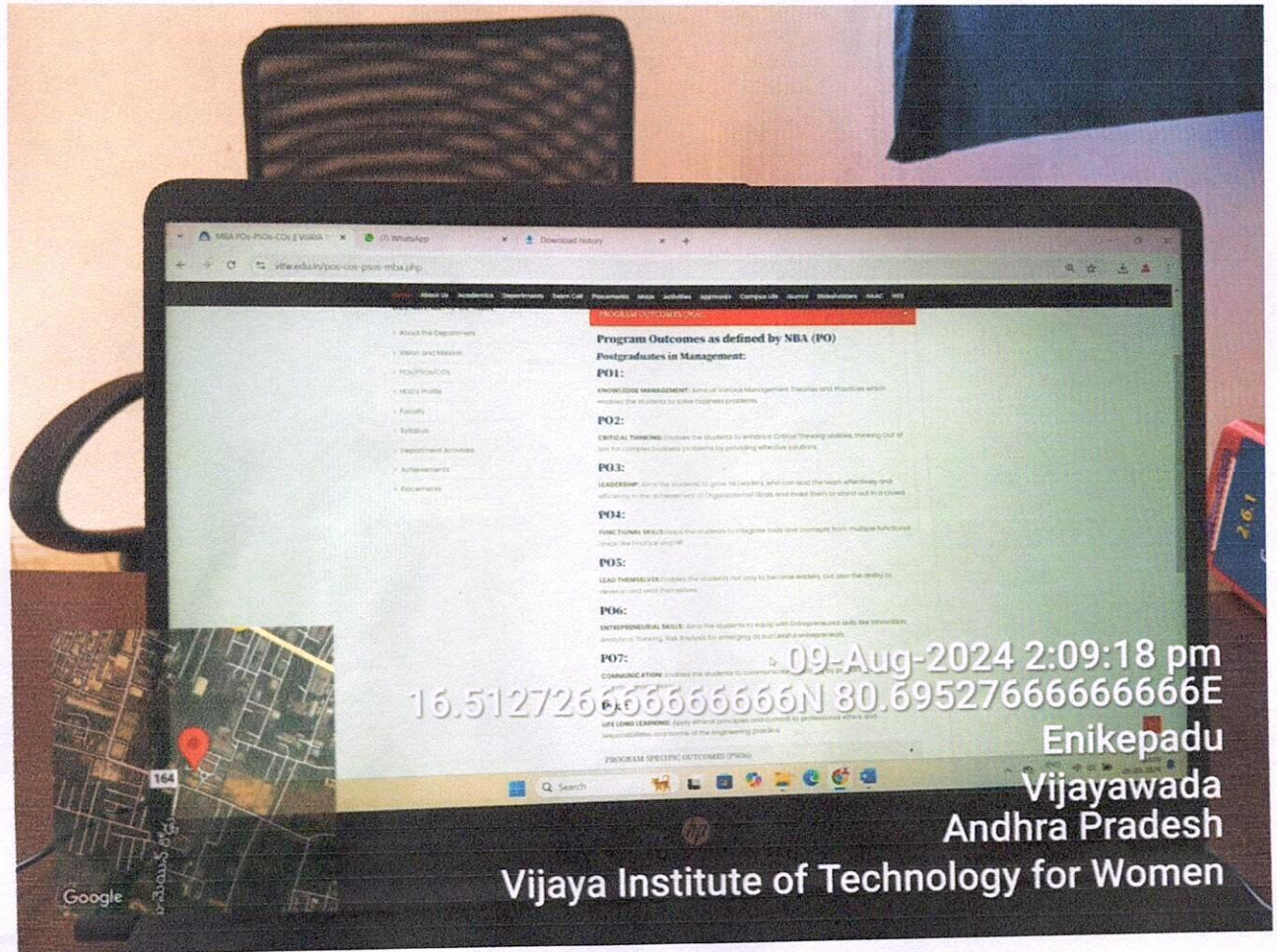
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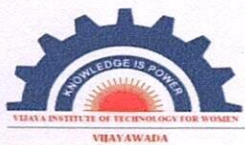
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## Screen capture taken from MBA Department website



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Photo taken from MBA Department FF-12

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Department of Business Administration

**PROGRAM OUTCOMES**

- PO1 KNOWLEDGE MANAGEMENT** : Aims at Various Management Theories and Practices which enables the students to solve business problems.
- PO2 CRITICAL THINKING** : Enables the students to enhance Critical Thinking abilities, thinking Out of box for complex business problems by providing effective solutions.
- PO3 LEADERSHIP** : Aims the students to grow as Leaders, who can lead the team effectively and efficiently in the achievement of Organizational Goals and make them to stand out in a crowd.
- PO4 FUNCTIONAL SKILLS** : Helps the students to integrate tools and concepts from multiple functional areas like Finance and HR
- PO5 LEAD THEMSELVES** : Enables the students not only to become leaders, but also the ability to develop and lead themselves.
- PO6 ENTREPRENEURIAL SKILLS** : Aims the students to equip with Entrepreneurial skills like Innovation, Analytical Thinking, Risk Analysis for emerging as successful entrepreneurs.
- PO7 COMMUNICATION** : Enables the students to communicate effectively by preparing documents, reports, presentations.
- PO8 LIFE LONG LEARNING** : Provides students the opportunity for continuous and lifelong learning equipped with ethics.

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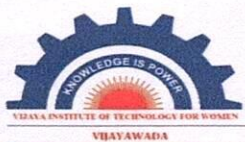
Vijayawada, Andhra Pradesh, India  
12-1C, Enikepadu, Vijayawada, Andhra Pradesh 521108, India  
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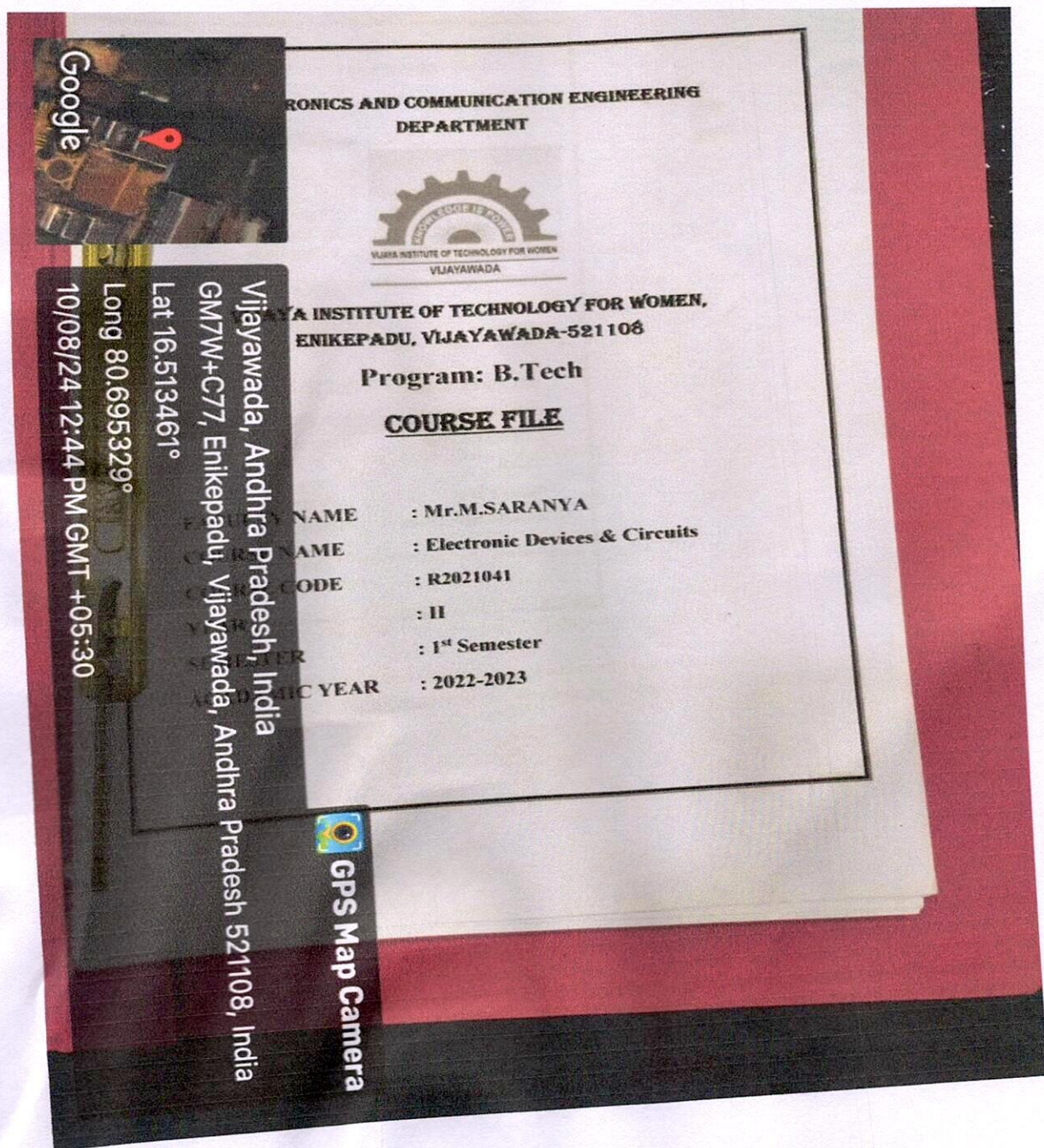
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