

**Shri. Gopinath Mahadeo Vedak Pratishthan's**  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

## VISION

To create the best environment for transforming the young generation in to Engineering professionals with good human values for betterment of society.

## MISSION

- To be a student centric Institute with quality education.
- To advance professional development of the learner through Industry-Institute interaction.
- To make the student job ready and fulfill their career aspirations.
- To provide assistance for placement & entrepreneurship development.
- To enhance socio - economic development of the individuals.



Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Mechanical Engineering**

**Vision**

The vision of the Mechanical Department is to get the global recognition as an outstanding engineering institute, continuously striving in pursuit of excellence in teaching, learning, research and entrepreneurship and which will produce the quality engineers to meet the ever changing needs of the industry and the society.

**Mission**

- To provide a platform to the students to enrich the technical and social skills to make them ready for global competition.
- To encourage to the students to use the different modern tools and multidisciplinary approach for solving real life problems.
- To create the awareness about the social and environmental responsibilities.
- To support them to enhance analytical and logical skills for problem solving.
- To develop coalition with other leading institutes of learning and research, industry and alumni for excellence in teaching, research and entrepreneurship.



Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Mechanical Engineering

**Program Educational Objectives**

| PEO No. | Program Educational Objective (PEO)   |
|---------|---|
| PEO1    | To prepare the student with a sound foundation in the mathematical, scientific and engineering fundamentals.  |
| PEO2    | To motivate the student in the art of self-learning and to use modern tools for solving real life problems.   |
| PEO3    | To inculcate a professional and ethical attitude, good leadership qualities and commitment to social responsibilities in the student's thought process. |
| PEO4    | To prepare the student for a successful career in Indian and Multinational organizations.   |





Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Mechanical Engineering**

**Program Outcomes**

| PO No. | Program Outcome (PO)  |
|--------|---|
| PO1    | <b>Engineering Knowledge:</b> Engineering graduate will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.  |
| PO2    | <b>Problem Analysis:</b> Engineering graduate will be able to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.   |
| PO3    | <b>Design/Development of Solutions:</b> Engineering graduate will be able to 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    | <b>Conduct Investigations of Complex Problems:</b> Engineering graduate will be able to 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    | <b>Modern Tool Usage:</b> Engineering graduate will be able to 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    | <b>The Engineer and Society:</b> Engineering graduate will be able to 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    | <b>Environment and Sustainability:</b> Engineering graduate will be able to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.   |
| PO8    | <b>Ethics:</b> Engineering graduate will be able to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.  |
| PO9    | <b>Individual and Team Work:</b> Engineering graduate will be able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.   |
| PO10   | <b>Communication:</b> Engineering graduate will be able to 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   | <b>Project Management and Finance:</b> Engineering graduate will be able to 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   | <b>Life-long Learning:</b> Engineering graduate will be able to 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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G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Mechanical Engineering**

**Program Specific Outcomes**

| <b>PSO No.</b> | <b>Program Specific Outcome (PSO)</b>   |
|----------------|---|
| <b>PSO1</b>    | Engineering graduate will be able to solve complex problems in the field of <b>Design, Thermal and Manufacturing.</b>   |
| <b>PSO2</b>    | Engineering graduate will be able to analyze and stimulate <b>Mechanical Systems</b> by conducting experimental studies and using software to validate systems. |
| <b>PSO3</b>    | Engineering graduate will be able to apply technical and management skills to manage different <b>Projects.</b>   |



**Shri. Gopinath Mahadeo Vedak Pratishthan's  
G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Computer Engineering**

**Vision**

The vision of the Computer Department is to produce versatile computer engineers, capable of adapting to the changing needs of industry and society.

**Mission**

- To nurture good infrastructure and innovative teaching learning environment.
- To facilitate the development of academia-industry collaboration programs to meet the changing needs of industry and society.
- To involve students as well as faculties in research and development to meet the requirements of software industry.
- To boost students to succeed in industry, government and academia.
- To identify real life problems and provide solutions which are economically feasible as well as socially acceptable.



Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Computer Engineering

**Program Educational Objectives**

| PEO No. | Program Educational Objective (PEO)   |
|---------|---|
| PEO 1   | To prepare the Student with a sound foundation in the mathematical, scientific and engineering fundamentals.  |
| PEO 2   | To motivate the Student in the art of self-learning and to use modern tools for solving real life problems.   |
| PEO 3   | To equip the Student with broad education necessary to understand the impact of Computer Science and Engineering in a global and social context.      |
| PEO 4   | To encourage, motivate and prepare the Student's for Lifelong-learning.   |
| PEO 5   | To inculcate professional and ethical attitude, good leadership qualities and commitment to social responsibilities in the Student's thought process. |





Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Computer Engineering

## Program Outcomes

| PO No. | Program Outcome (PO)  |
|--------|---|
| PO 1   | <b>Engineering Knowledge:</b> Engineering graduate will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.  |
| PO 2   | <b>Problem Analysis:</b> Engineering graduate will be able to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.   |
| PO 3   | <b>Design/ Development of Solutions:</b> Engineering graduate will be able to 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.        |
| PO 4   | <b>Conduct Investigations of Complex Problems:</b> Engineering graduate will be able to 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.  |
| PO 5   | <b>Modern Tool Usage:</b> Engineering graduate will be able to 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   | <b>The Engineer and Society:</b> Engineering graduate will be able to 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.   |
| PO 7   | <b>Environment and Sustainability:</b> Engineering graduate will be able to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.   |
| PO 8   | <b>Ethics:</b> Engineering graduate will be able to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.  |
| PO 9   | <b>Individual and Team Work:</b> Engineering graduate will be able to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.   |
| PO 10  | <b>Communication:</b> Engineering graduate will be able to 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  | <b>Project Management and Finance:</b> Engineering graduate will be able to 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.   |
| PO 12  | <b>Life-long Learning:</b> Engineering graduate will be able to 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.   |





Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Computer Engineering

**Program Specific Outcomes**

| PSO No.      | Program Specific Outcome (PSO)   |
|--------------|--|
| <b>PSO 1</b> | The Computer Engineering graduate is able to understand, analyze, design and develop computer programs in the areas related to <b>algorithms, system software, database, multimedia, web design and networking</b> for efficient design of computer-based systems. |
| <b>PSO 2</b> | Engineering graduate will be able to use <b>cutting-edge technologies</b> for developing cost-effective solutions for the betterment of both industry and society.   |
| <b>PSO 3</b> | Engineering graduate will be able to apply technical and management skills to manage different Projects.   |



Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

**Department of Civil Engineering**

**Vision**

The vision of the Civil Department is to get the global recognition as an outstanding engineering institute, continuously striving in pursuit of excellence in teaching, learning, research and entrepreneurship and which will produce the quality engineers to meet the ever changing needs of the industry and the society.

**Mission**

- To provide a platform to the students to enrich the technical and social skills to make them ready for global competition.
- To encourage to the students to use the different modern tools and multidisciplinary approach for solving real life problems.
- To create the awareness about the social and environmental responsibilities.
- To support them to enhance analytical and logical skills for problem solving.
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Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Civil Engineering

**Program Educational Objectives**

| PEO No. | Program Educational Objective (PEO)   |
|---------|---|
| PEO 1   | To prepare the student with a sound foundation in the mathematical, scientific and engineering fundamentals.  |
| PEO 2   | To motivate the student in the art of self-learning and to use modern tools for solving real life problems.   |
| PEO 3   | To inculcate a professional and ethical attitude, good leadership qualities and commitment to social responsibilities in the student's thought process. |
| PEO 4   | To prepare the student for a successful career in Indian and Multinational organizations.   |

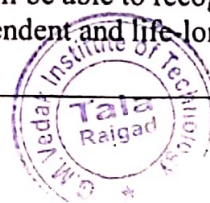




Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**  
 Department of Civil Engineering

## Program Outcomes

| PO No. | Program Outcome (PO)  |
|--------|---|
| PO 1   | <b>Engineering Knowledge:</b> Engineering graduate will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.  |
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**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**

Department of Civil Engineering

**Program Specific Outcomes**

| PSO No. | Program Specific Outcome (PSO)  |
|---------|---|
| PSO 1   | Engineering graduate will be able to solve complex problems in the field of <b>Design, Environmental , Transportation and Executing.</b>                                    |
| PSO 2   | Engineering graduate will be able to analyze and stimulate <b>Designing and Analysis Systems</b> by conducting experimental studies and using software to validate systems. |
| PSO 3   | Engineering graduate will be able to apply technical and management skills to manage different <b>Projects.</b>   |





Shri. Gopinath Mahadeo Vedak Pratishthan's  
**G. M. VEDAK INSTITUTE OF TECHNOLOGY, TALA**  
Department of Applied Science and Humanities

## Program Outcomes

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|--------|---|
| PO 1   | <b>Engineering Knowledge:</b> Engineering graduate will be able to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.  |
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