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**FABTECH TECHNICAL CAMPUS**  
**COLLEGE OF ENGINEERING & RESEARCH**

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Contact No. : 840888657 Website: www.fabtecheducation.com E-mail : ftc.coer@gmail.com

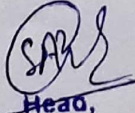
**A.Y.:2021-2022**  
**For Graduation Courses**  
**B.Tech. in Mechanical Engineering**

**A. Program Educational Objectives (PEOs)**

|       |  |
|-------|--|
| PEO 1 | Graduates should excel in engineering positions in industry and other organizations that emphasize design and implementation of engineering systems and devices. |
| PEO 2 | Graduates should excel in best post-graduate engineering institutes, acquiring advanced degrees in engineering and related disciplines.                          |
| PEO 3 | Alumni should establish a successful career in an engineering-related field and adapt to changing technologies.  |
| PEO 4 | Graduates are expected to continue personal development through professional study and self-learning.  |
| PEO 5 | Graduates should be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical and societal responsibilities.    |

**B. Program Outcomes (POs)**

|      |  |
|------|--|
| PO 1 | Apply the knowledge of mathematics, basic sciences, and mechanical engineering to the solution of complex engineering problems.                  |
| PO 2 | Identify, formulate, research literature, and analyze complex mechanical engineering problems reaching substantiated conclusions.                |
| PO 3 | Design solutions for complex engineering problems and design mechanical system components that meet the specified needs.                         |
| PO 4 | Use mechanical engineering research-based knowledge related to interpretation of data and provide valid conclusions.                             |
| PO 5 | Create, select, and apply modern mechanical engineering and IT tools to complex engineering activities with an understanding of the limitations. |
| PO 6 | Apply reasoning acquired by the mechanical engineering knowledge to assess societal and safety issues.   |
| PO 7 | Understand the impact of engineering solutions on the environment, and demonstrate the knowledge for sustainable development.                    |

  
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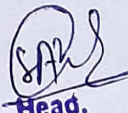


  
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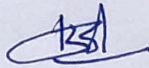
|       |  |
|-------|--|
| PO 8  | Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| PO 9  | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.  |
| PO 10 | Communicate effectively on complex engineering activities with the engineering community and with society at large.    |
| PO 11 | Understand the engineering and management principles and apply these to the multidisciplinary environments.            |
| PO 12 | Recognize the need for life-long learning in the broadest context of technological change.                             |

**c. Program-Specific Outcomes (PSOs)**

|       |   |
|-------|---|
| PSO 1 | Make the students employable in engineering industries. |
| PSO 2 | Motivate the students for higher studies and research.  |

  
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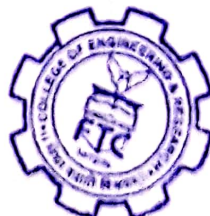
A.Y.:2021-2022  
For Graduation Courses  
B. Tech in Electronics and Telecommunication Engineering

| A) Program Educational Objectives (PEOs) |   |
|--|---|
| PEO1                                     | To prepare students to give good theoretical background with sound practical knowledge, enable them to analyze and solve Electronics and Telecommunication Engineering problems by applying basic principles of mathematics, science and engineering using modern tools and techniques. |
| PEO2                                     | To make students to test hardware components and software for offering solution to real life situations.  |
| PEO3                                     | To inculcate students to be sensitive to ethical, societal and environmental issues while pursuing their professional duties.   |
| PEO4                                     | To build strong fundamental knowledge amongst students to pursue higher education and to enhance research and continue professional development in Electronics, Communication and IT industries with attitude for lifelong learning.  |
| PEO5                                     | To nurture students with technical and communication skills in order to be able to function on multidisciplinary fields and make them aware of contemporary issues at national and international levels.  |
| PEO6                                     | To develop students for team-works and managerial skills leading to entrepreneurship and leadership.  |

| B).Program Outcomes (POs) |  |
|---------------------------|--|
| PO1                       | To apply knowledge of mathematics, science and engineering to the solution of complex engineering problems.  |
| PO2                       | To identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using principles of mathematics, natural sciences and engineering sciences.                   |
| PO3                       | 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 |

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|      |  |
|------|--|
|      | environmental considerations.  |
| PO4  | 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  | 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  | 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  | 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  | To apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.  |
| PO9  | To function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.  |
| PO10 | 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 | 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 | 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.   |

### C). Program-Specific Outcomes (PSOs)

|       |  |
|-------|--|
| PSO 1 | Apply basic knowledge related to electronic circuits, embedded & wireless communication systems and signal processing to solve engineering/ societal Problems in the field of electronics and telecommunication engineering. |
| PSO 2 | recognize and adapt to technical developments and to engage in lifelong learning And develop consciousness for professional, social, legal and ethical Responsibilities.   |
| PSO3  | Excellent adaptability to the changing industrial and real world requirements  |

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**A.Y. 2021-2022**

**For Graduation Courses**

**B. Tech in Computer Science & Engineering**

**A. Program Educational Objectives (PEOs)**

| Objective Identifier | Objectives  |
|----------------------|---|
| PEO1                 | To provide knowledge of sound mathematical principles underlying various programming concepts.  |
| PEO2                 | To develop an ability to understand complex issues in the analysis, design, implementation and operation of information systems.              |
| PEO3                 | To provide knowledge of mechanisms for building large-scale computer-based systems.   |
| PEO4                 | To develop an ability to provide computer-based solutions to the problems from other disciplines of science and engineering.                  |
| PEO5                 | To impart skills necessary for adapting rapid changes taking place in the field of information and communication technologies.                |
| PEO6                 | To provide knowledge of ethical issues arising due to deployment of information and communication technologies in the society on large scale. |

**B. Program Outcomes (POs)**

| Outcome Identifier | Outcomes   |
|--------------------|--|
| PO1                | The graduates will possess the knowledge of various discrete mathematical structures, Logic and numerical techniques.  |
| PO2                | The graduates will have an ability to apply mathematical formalism of Finite Automata and Probability in modeling and analysis of systems.   |
| PO3                | The graduates will have knowledge of core programming paradigms such as database orientation, object orientation, and agent orientation and concepts essential to implement software based system. |

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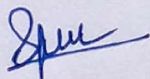
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|------|--|
| PO4  | The graduates will have an ability to analyze problem, specify algorithmic solutions to them and to evaluate alternative solutions.  |
| PO5  | The graduate will have broad understanding of the impact of a computer based solutions in economic, environmental and social context and will demonstrate use of analytical tools in gathering requirements and distilling relevant information to provide computer based solutions. |
| PO6  | The graduates will demonstrate the ability to build human centric interfaces to computers.   |
| PO7  | The graduates will possess the knowledge of advanced and emerging topics in the fields of operating systems, databases and computer networks.  |
| PO8  | The graduates will possess skills necessary to communicate design engineering ideas. The skills set include verbal, written and listening skills.  |
| PO9  | The graduates will understand ethical issues in providing computer based solutions also they will have an ability and attitude to address the ethical issues.  |
| PO10 | The graduates will understand the role of system software such as operating systems, database management systems, compilers, middle-ware and internet protocols in realizing distributed information environment   |

#### A. Program Specific Outcome (PSO)

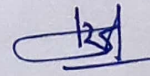
| Outcome Identifier | Outcomes  |
|--------------------|---|
| PSO1               | Ability to understand basics of computer system hardware and peripherals.                             |
| PSO2               | Ability to install and use open source operating system, application software and use of FLOSS tools. |
| PSO3               | Ability to solve, analyze and provide meaningful insights for data analytic problems.                 |



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**A.Y.:2021-2022**  
**For Graduation Courses**  
**B. Tech in Civil Engineering**

**A. Program Educational Objectives (PEOs)**

|      |  |
|------|--|
| PEO1 | Taking pride in their profession and have commitment to highest standards of ethical practices and related technical disciplines.                  |
| PEO2 | Able to design various structures and systems that is safe, economical and efficient.  |
| PEO3 | Capable of using modern tools efficiently in all aspects of professional practices.  |
| PEO4 | Dealing successfully with real life civil engineering problems and achieve practical solutions based on a sound science and engineering knowledge. |
| PEO5 | Shall be engage in continuous research, development and exchange of knowledge for professional development.  |

**B. Program Outcomes (POs)**

|     |  |
|-----|--|
| PO1 | Apply the knowledge of mathematics, basic sciences, and mechanical engineering to the solution of complex engineering problems.                  |
| PO2 | Identify, formulate, research literature, and analyze complex mechanical engineering problems reaching substantiated conclusions.                |
| PO3 | Design solutions for complex engineering problems and design mechanical system components that meet the specified needs.                         |
| PO4 | Use mechanical engineering research-based knowledge related to interpretation of data and provides valid conclusions.                            |
| PO5 | Create, select, and apply modern mechanical engineering and IT tools to complex engineering activities with an understanding of the limitations. |
| PO6 | Apply reasoning acquired by the mechanical engineering knowledge to assess societal and safety issues.   |
| PO7 | Understand the impact of engineering solutions on the environment, and demonstrate the knowledge for sustainable development.                    |

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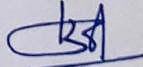
|      |  |
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| PO8  | Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| PO9  | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.  |
| PO10 | Communicate effectively on complex engineering activities with the engineering community and with society at large.    |
| PO11 | Understand the engineering and management principles and apply these to the multidisciplinary environments.            |
| PO12 | Recognize the need for life-long learning in the broadest context of technological change.                             |

**c. Program-Specific Outcomes (PSOs)**

|      |  |
|------|--|
| PSO1 | Make the students employable in engineering industries.    |
| PSO2 | Motivate the students for higher studies and research.     |
| PSO3 | Motivate the students for various competitive examinations |

  
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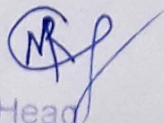
**A.Y.:2021-2022**  
**For Graduation Courses**  
**B. Tech in Electrical Engineering**

**A. Program Educational Objectives (PEOs)**

|      |  |
|------|--|
| PEO1 | Will exhibit strong technical ability and creativity to formulate alternative solutions to various electrical Engineering problems with available resources. |
| PEO2 | Will demonstrate good interpersonal communication, team spirit and leadership in their profession.   |
| PEO3 | Will follow ethical approach and engage themselves in lifelong learning to meet societal needs and global challenges.  |
| PEO4 | Will exhibit industry ready abilities and skills.  |

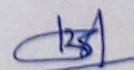
**B. Program Outcomes (POs)**

|     |   |
|-----|---|
| 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.   |

  
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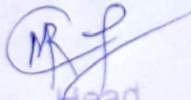


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|------|---|
| PO7  | Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.   |
| PO8  | Ethics: 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  |

**c. Program-Specific Outcomes (PSOs)**

|       |   |
|-------|---|
| PSO 1 | Make the students employable in engineering industries. |
| PSO 2 | Motivate the students for higher studies and research.  |

  
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**A.Y. 2021-2022**

**For Graduation Courses**

**B. Tech in Artificial Intelligence and Data Science**

**A. Program Educational Objectives (PEOs)**

| Objective, Identifier | Objectives   |
|-----------------------|--|
| PEO1                  | To equip graduates with a strong foundation in engineering sciences and Artificial Intelligence and Data Science Engineering fundamentals to become effective collaborators, researchers and real-time problem solver with technical competencies. |
| PEO2                  | Perceive the limitation and impact of engineering solutions in social, legal, environmental, economic and multidisciplinary contexts.  |
| PEO3                  | Excel in Industry/technical profession, higher studies, and entrepreneurship exhibiting global competitiveness   |

**B. Program Outcomes (POs)**

| Outcome Identifier | Outcomes  |
|--------------------|---|
| 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  |

Page 1

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|      |   |
|------|---|
|      | 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.   |

### C. Program Specific Outcome (PSO)

| Outcome Identifier | Outcomes  |
|--------------------|---|
| PSO1               | Apply the fundamentals of science, mathematics and engineering knowledge to design, development, formulates and investigate complex engineering problems related to application area in Artificial Intelligence and Data Science. |
| PSO2               | Provide exposure to latest tools and technologies and aware of the impact of professional engineering solution in environmental, societal, professional ethics and able to communicate effectively.                               |
| PSO3               | To publish research paper and think, innovates in artificial intelligence, machine Learning and Data Science domain   |



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**A.Y : 2021-22**

**For Post-Graduation Courses**  
**M.Tech in Electrical Engineering**

**A. Programme Educational Objectives (PEOs)**

| No.  | PEO  |
|------|--|
| PEO1 | To prepare graduates meet the challenges of modern society through viable engineering solutions                          |
| PEO2 | To prepare graduates to develop economically viable cutting edge technology for local industry Need.                     |
| PEO3 | To prepare graduates to inspire next generation graduates as successful engineer/ entrepreneur, scientist and researcher |

**B. Program Outcomes (POs)**

|      |  |
|------|--|
| PO1  | Ability to apply knowledge of science, mathematics, and engineering principles for solving problems  |
| PO2  | Ability to identify, formulate and solve electrical power system problems  |
| PO3  | Ability to understand and use different software tools in the domain of Power electronics, power system and control system simulations     |
| PO4  | Ability to design and conduct experiments and analyze and interpret data   |
| PO5  | Ability to coherently work in a multidisciplinary team   |
| PO6  | Demonstrate sensitivity towards professional and ethical responsibility.   |
| PO7  | Ability to communicate effectively in writing as well as through public speaking   |
| PO8  | Demonstrate ability to appreciate and engage in lifelong learning  |
| PO9  | Demonstrated knowledge of contemporary issues.   |
| PO10 | An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice                                  |
| PO11 | The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context |

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**A.Y.: 2021-2022**  
**For Post-Graduation Courses**  
**M.Tech in Mechanical Engineering**

**A. Programme Educational Objectives (PEOs)**

| No.  | PEO  |
|------|--|
| PEO1 | To train students with depth and advanced knowledge to become professional and capable of identifying, analyzing and solving complex problems in the areas of Heat power engineering.                        |
| PEO2 | To enable post graduates to carry out innovative and independent research work, disseminate the knowledge in Academia/Industry/Research Organizations to develop systems and processes in the related field. |
| PEO3 | To prepare the students to exhibit a high level of professionalism, integrity, effective communication skills and environmental and social responsibility.   |
| PEO4 | To provide an academic environment that gives adequate opportunity to the students to cultivate life-long independent learning ability for their successful professional career.                             |

**B. Program Outcomes (POs)**

|      |  |
|------|--|
| PO 1 | Acquire, demonstrate and apply advanced knowledge in the area of mechanical engineering.   |
| PO 2 | Identify problems in the field of mechanical engineering, formulate them and Solve by using advanced techniques.   |
| PO 3 | Conducting dependent research and generate new knowledge for the benefit of community, society Industry and country.                                     |
| PO 4 | Apply various numerical methods, advanced software and engineering tools to model, Analyze and solve mechanical engineering problems.                    |
| PO 5 | Work effectively in interdisciplinary teams for solving real life problems in the related field.   |
| PO 6 | Apply engineering and scientific principles for the effective management of mechanical systems.  |
| PO 7 | Effectively communicate through Technical reports, presentations and scientific publications with the engineering community as well as society at large. |
| PO 8 | Demonstrate traits of management in handling engineering projects, related   |

  
**Head,**  
 Mechanical Engg. Department,  
 Fabtech Technical Campus  
 College of Engg. & Research, Sangola



  
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 Sangola

|       |  |
|-------|--|
|       | finance, and coordinate with workforce towards achieving goals.  |
| PO 9  | Demonstrate high level of professional and intellectual integrity, ethics of research and scholarly standards.           |
| PO 10 | Examine critically the outcomes of one's actions and make Corrective measures subsequently.                              |
| PO 11 | Demonstrate the ability to work in team in the laboratory in achieving multidisciplinary tasks required for the project. |
| PO 12 | Engage in life-long reflective and independent learning with high level of Enthusiasm and commitment.                    |



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