



Balaji Institute of Technology & Science

Laknepally, NARSAMPET, Warangal (Rural) – 506331

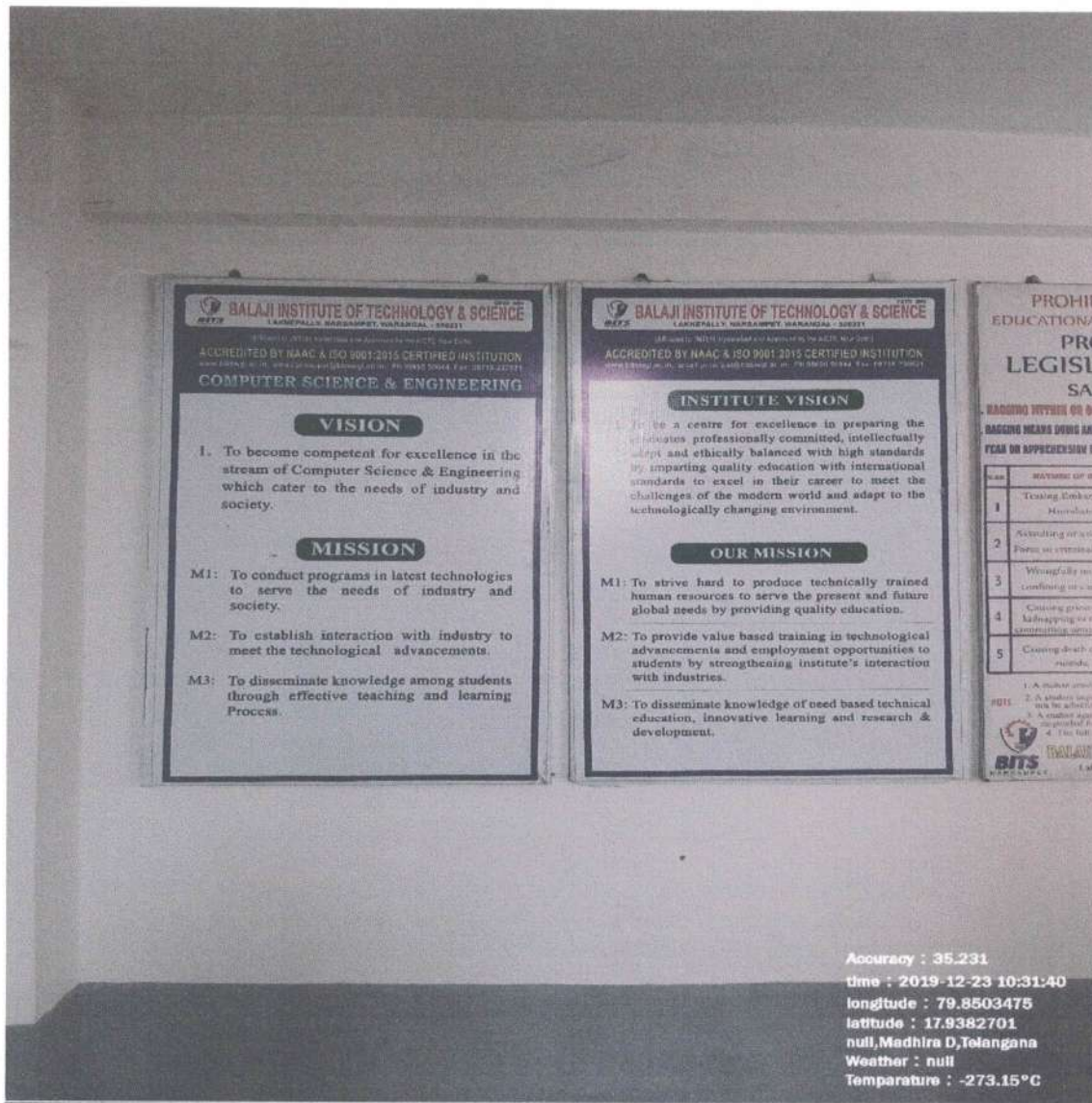
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www.bitswgl.ac.in, email: principal@bitswgl.ac.in :: Ph. 98660 50044, Fax 08718-230521

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Geotagged photos of Vision, Mission, COs, POs, PSOs and PEOs display:




Display of Vision and Mission of CSE Department

U. V. Venkatesh

Principal

Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)

ESTD: 2001


BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
 LAKNEPALLY, NARSAMPET, WARANGAL - 506331

(Affiliated to JNTUH, Hyderabad and Approved by the AICTE, New Delhi)
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www.bitswgl.ac.in email: principal@bitswgl.ac.in Ph: 98660 50644, Fax: 08718-230521

Department of
COMPUTER SCIENCE & ENGINEERING
DATABASE MANAGEMENT SYSTEM LAB

Course Objectives
 During the course a student will learn:

1. To practice the concepts learnt in the subject DBMS by developing a database for an example company named "Roadway Travels".
2. The student is expected to practice the designing, developing and querying a database.
3. Students are expected to use "Mysql" database.

Course Outcomes
 After completion of the course student will be able to :

C01: Design and create the ER, EER, and UML Diagrams.

C02: Analyze the business requirements and produce a viable model for the implementation of the database.

C03: Convert the Entity-Relationship Diagrams into relational tables.

C04: Create appropriate Databases to a given problem.

C05: Develop PL/SQL programs which include procedures, functions and packages.

Accuracy : 18.783
 time : 2019-12-23 10:41:36
 longitude : 79.8499446
 latitude : 17.9377392
 null, Madhira D, Telangana
 Weather : null
 Temperature : -273.15°C

Display of Course Outcomes(COs)



Principal
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 Laknepally (V), Narsampet (M)
 Warangal (Dt) - 506 331 (T.S)



BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE

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COMPUTER SCIENCE & ENGINEERING

Program Outcomes (POs)

A graduate of the Computer Science & Engineering Program will demonstrate.

- 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 design 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.

Accuracy : 15.821

time : 2019-12-23 10:39:03

longitude : 79.8499868

latitude : 17.9377221

null, Madhira D, Telangana

Weather : null


Temperature : -273.15°C

Display of Program Outcomes (POs)

Principal

Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)

GY & SCIENCE
1633 F
INSTITUTION
Fax: 0871R-230321
ENGINEERING


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COMPUTER SCIENCE & ENGINEERING

Program Educational Objectives(PEOs)

PEO1: To provide knowledge in core areas of Computer Science and Engineering which include theoretical foundations, practical aspects in the form of lab experiments and project works.

PEO2: To engage in life-long learning in the context of ever changing technologies.

PEO3: To acquire technical skills and soft skills which enable students suitable for employment.

Program Specific Outcomes (PSOs)

PSO1: Graduate is able to understand the methodologies of computer system.

PSO2: Graduate is able to develop employability skills in designing, development, validation and maintenance of a software product.

Accuracy : 13.055
time : 2019-12-23 10:35:08
longitude : 79.8500031
latitude : 17.93782
null,Madhira D,Telangana
Weather : null
Temperature : -273.15°C

Display of Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs)

(Handwritten Signature)

Principal
Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)



Balaji Institute of Technology & Science

Laknepally, NARSAMPET, Warangal (Rural) – 506331

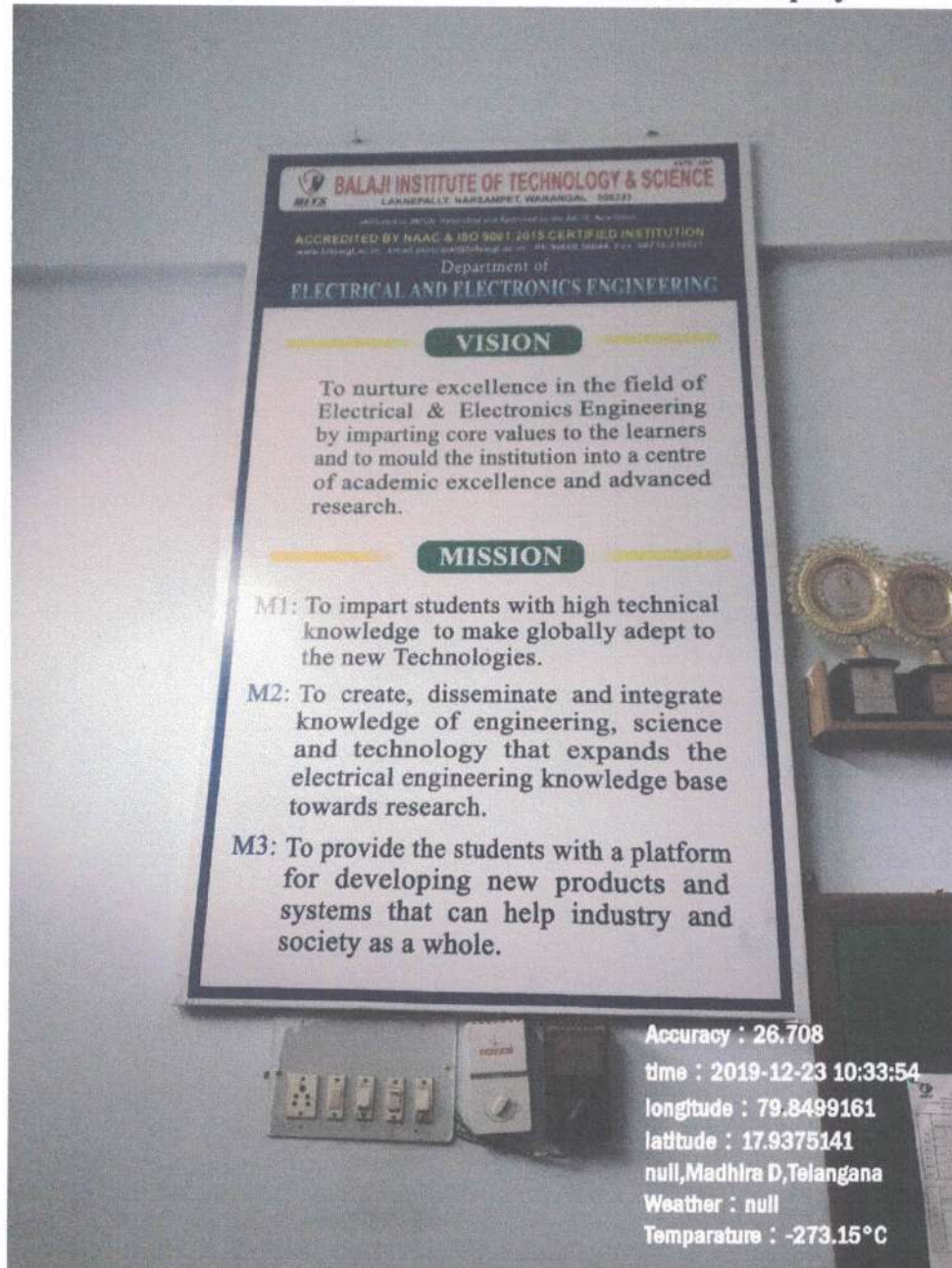
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

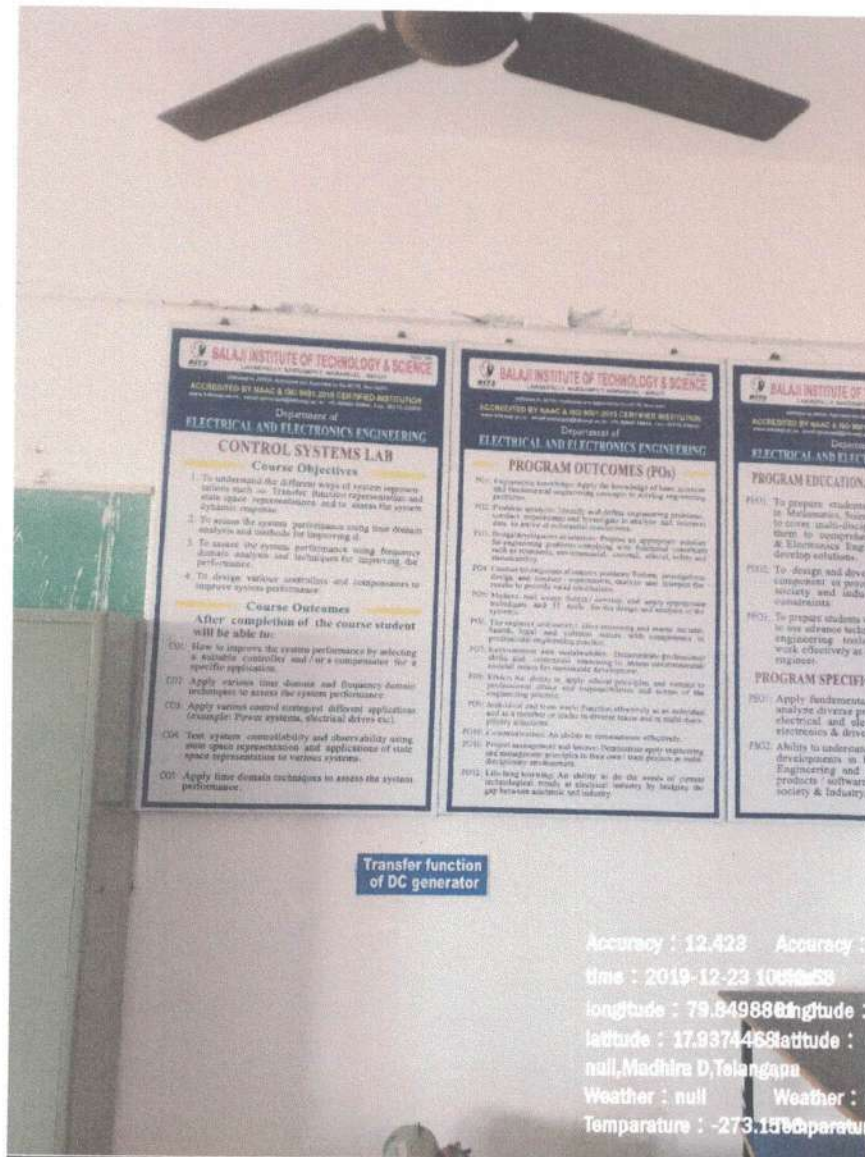
Geotagged photos of Vision, Mission, COs, POs, PSOs and PEOs Display



DISPLAY OF VISION AND MISSION OF EEE DEPARTMENT

Principal

Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)



DISPLAY OF COURSE OUTCOMES(COS)

U. V. Srinivasan

Principal
Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
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Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM OUTCOMES (POs)

PO1: Engineering knowledge: Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.

PO2: Problem analysis: Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.

PO3: Design/development of solutions: Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.

PO4: Conduct investigations of complex problems: Perform investigations, design and conduct / experiments, analyze and interpret the results to provide valid conclusions.

PO5: Modern tool usage: Select / develop and apply appropriate techniques and IT tools for the design and analysis of the systems.

PO6: The engineer and society: Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.

PO7: Environment and sustainability: Demonstrate professional skills and contextual reasoning to assess environmental/ societal issues for sustainable development.

PO8: Ethics: An ability to 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 multi-disciplinary situations.

PO10: Communication: An ability to communicate effectively.

PO11: Project management and finance: Demonstrate apply engineering and management principles in their own / team projects in multi-disciplinary environment.

PO12: Life-long learning: An ability to do the needs of current technological trends at electrical industry by bridging the gap between academic and industry.

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
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Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM OUTCOMES (POs)

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PO12: Life-long learning: An ability to do the needs of current technological trends at electrical industry by bridging the gap between academic and industry.

Single Phase Bridge inverter with R and RL loads

Accuracy : 8.0

time : 2019-12-23 10:45:22

longitude : 79.8500185

latitude : 17.9373952

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Weather : null

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DISPLAY OF PROGRAM OUTCOMES(POS)

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Principal

Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)

SCIENCE

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ENGINEERING

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Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To prepare students with solid foundation in Mathematics, Sciences and Basic Engineering to cover multi-disciplinary subjects enabling them to comprehend, analyze Electrical & Electronics Engineering problems and develop solutions.

PEO2: To design and develop an electrical system component or process to meet the needs of society and industry with in realistic constraints.

PEO3: To prepare students with technical competence to use advance techniques, skills and modern engineering tools that allow them to work effectively as electrical and electronics engineer.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Apply fundamental knowledge to identify, analyze diverse problems associated with electrical and electronic circuits, power electronics & drives and power systems.

PSO2: Ability to understand the current technological developments in Electrical & Electronics Engineering and develop the innovative products / software to cater to the needs of society & Industry.

Accuracy : 6.136

Time : 2018-12-23 10:43:59

Longitude : 79.8499136

Latitude : 17.9374055

Null, Madhira D, Telangana

Weather : null

Temperature : -273.15°C

DISPLAY OF PROGRAM EDUCATIONAL OBJECTIVES(PEOS) AND PSOS



Principal
Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)



Balaji Institute of Technology & Science

Laknepally, NARSAMPET, Warangal (Rural) – 506331

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DEPARTMENT OF CIVIL ENGINEERING



Accuracy: 27.0

time: 2019-12-23 12:22:58

longitude: 79.8492875

latitude: 17.937209

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Weather: scattered clouds

Temperature: 17.55°C

COURSE OUTCOMES DISPLAYED IN LABORATORY

Principal

Balaji Institute of Technology & Science



Balaji Institute of Technology & Science

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DEPARTMENT OF CIVIL ENGINEERING



CHART REPRESENTING CIVIL DEPARTMENT PROGRAM SPECIFIC OUTCOMES & PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS DISPLAYED IN CORRIDOR

Principal



Balaji Institute of Technology & Science

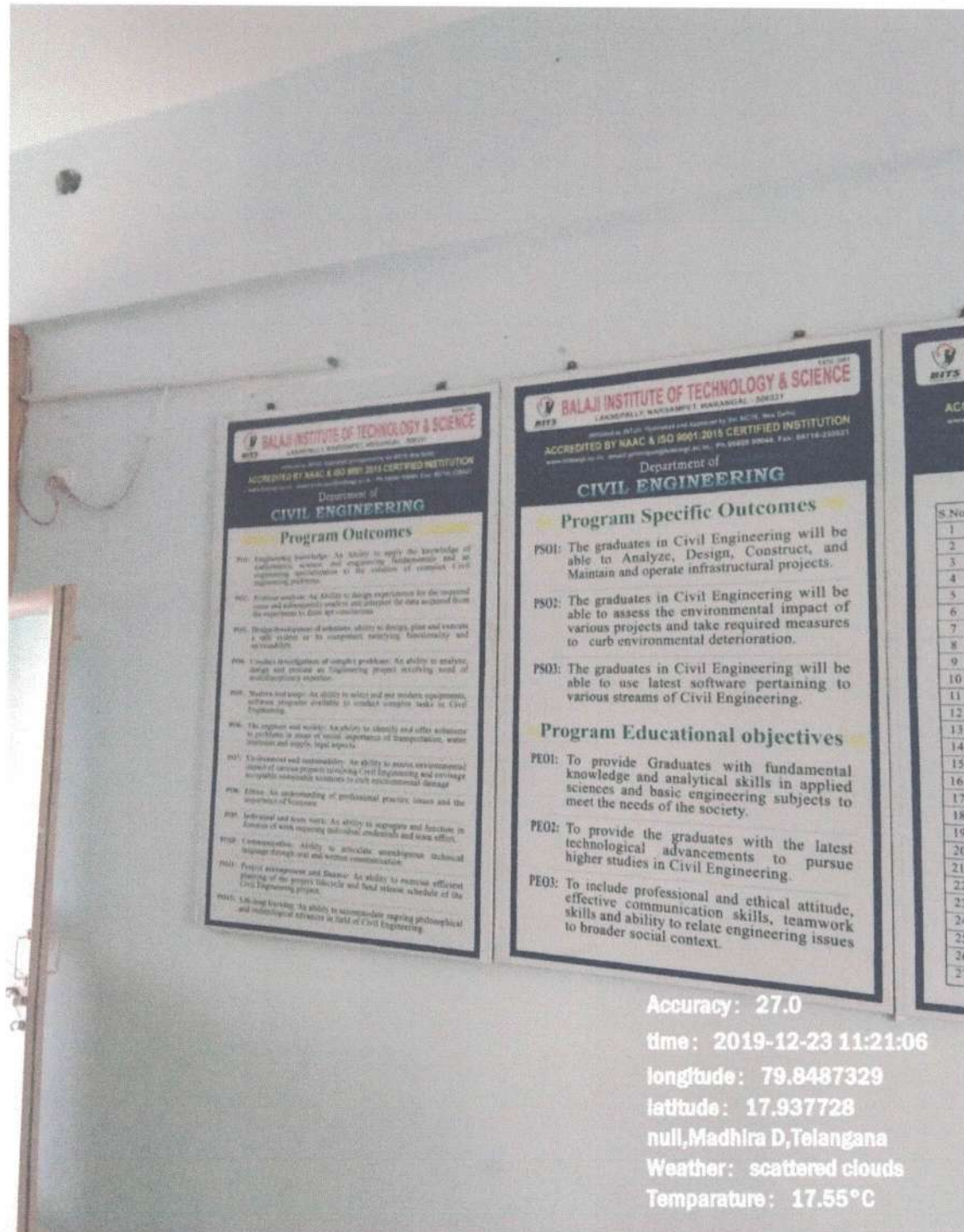
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DEPARTMENT OF CIVIL ENGINEERING



Accuracy: 27.0

time: 2019-12-23 11:21:06

longitude: 79.8487329

latitude: 17.937728

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Weather: scattered clouds

Temperature: 17.55°C

CHART REPRESENTING CIVIL DEPARTMENT PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES STATEMENTS DISPLAYED IN HOD CHAMBER

Principal



Balaji Institute of Technology & Science

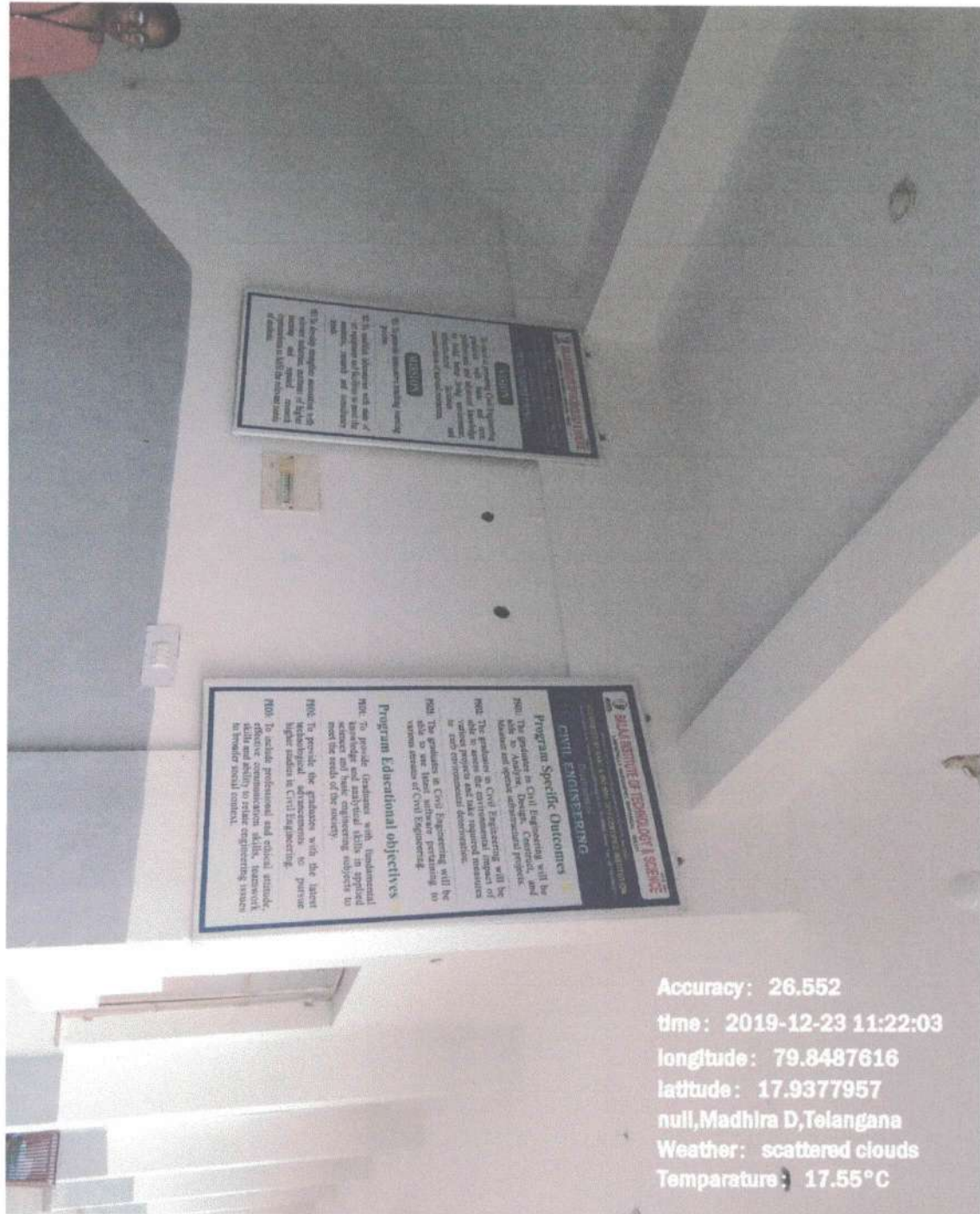
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DEPARTMENT OF CIVIL ENGINEERING



Accuracy: 26.552

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longitude: 79.8487616

latitude: 17.9377957

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Weather: scattered clouds

Temperature: 17.55°C

**CHART REPRESENTING CIVIL DEPARTMENT VISION AND MISSION,
PROGRAM SPECIFIC OUTCOMES &
PROGRAM EDUCATIONAL OBJECTIVES STATEMENTS DISPLAYED IN CORRIDOR**

Principal



Balaji Institute of Technology & Science

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DEPARTMENT OF CIVIL ENGINEERING

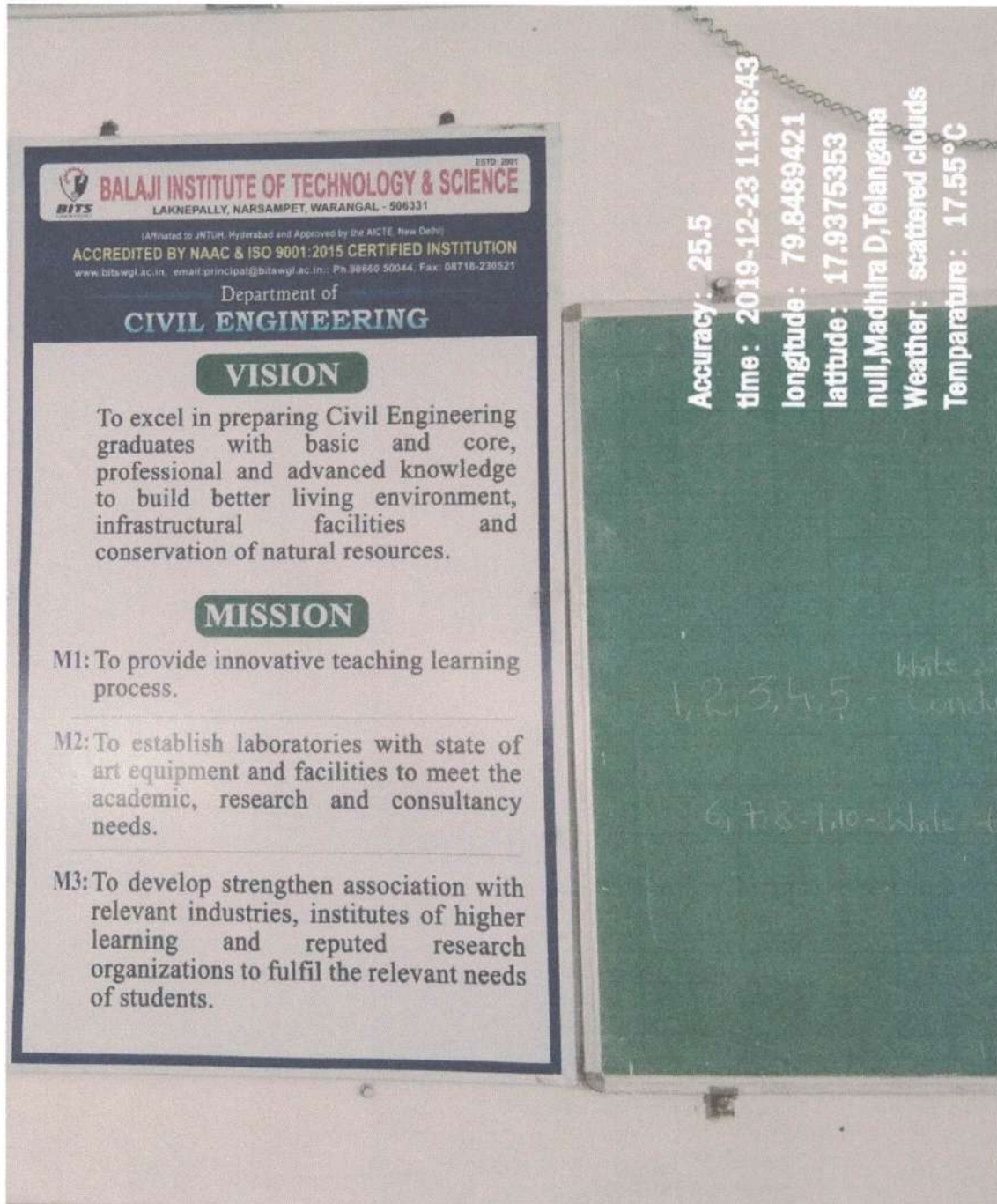


CHART REPRESENTING CIVIL DEPARTMENT VISION AND MISSION
STATEMENTS DISPLAYED IN CLASS ROOM

U. Subrahmanya

Principal

Balaji Institute of Technology & Science
Laknepally (V), Narsampet (M)



Balaji Institute of Technology & Science

Laknepally, NARSAMPET, Warangal (Rural) – 506331

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DEPARTMENT OF CIVIL ENGINEERING

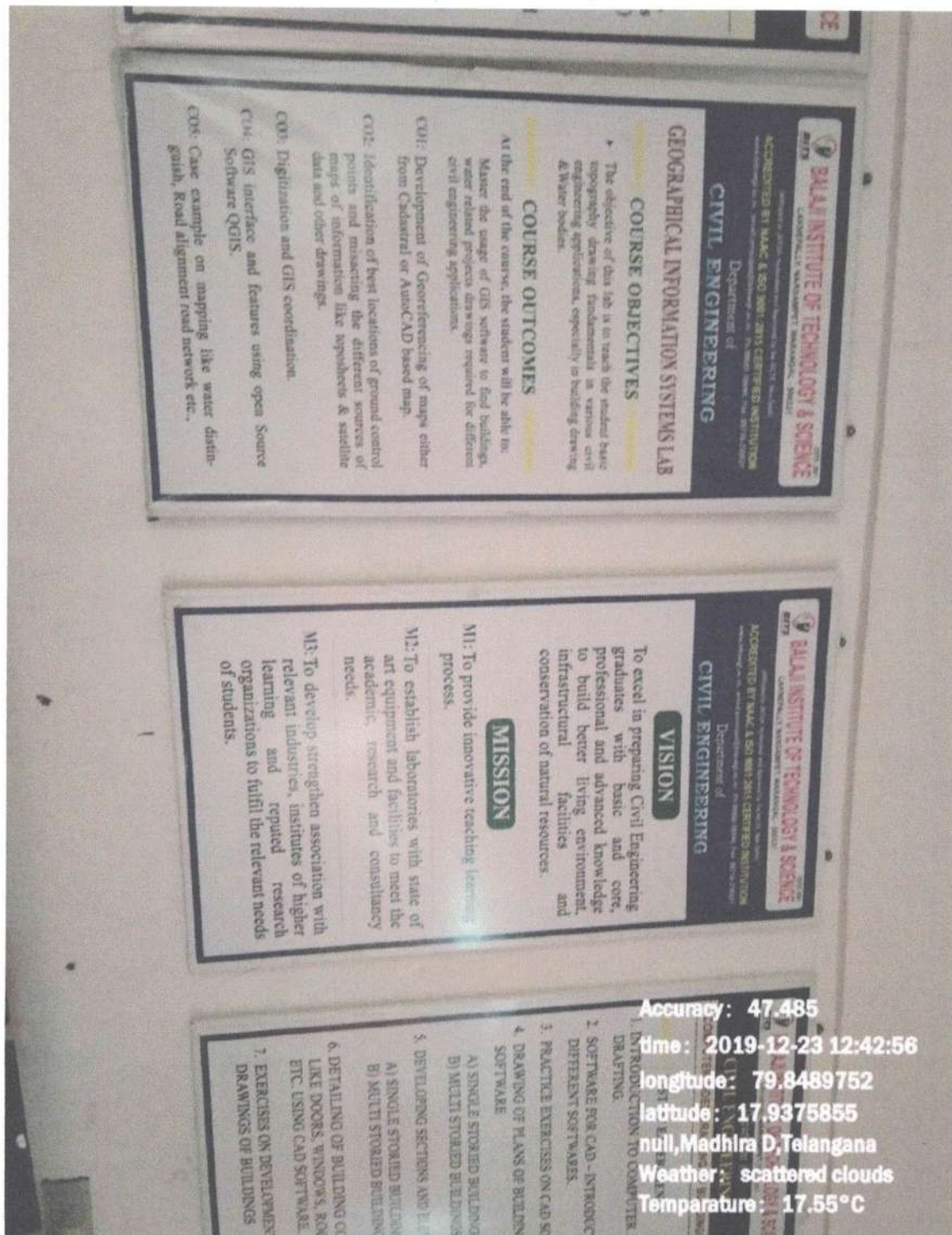


CHART REPRESENTING CIVIL DEPARTMENT VISION & MISSION STATEMENTS

Principal
Principal



BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE

Affiliated to JNTU Hyderabad, Approved by AICTE New Delhi

Accredited by NBA (UG-CE, ME, ECE & CSE), NAAC

& Certified by ISO 9001-2015

Lakshapalli(V), Narsampet(M), Warangal-506331.

DEPARTMENT OF MECHANICAL ENGINEERING

HEAD OF THE DEPARTMENT CABIN:

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKSHAPALLI, NARSAMPET, WARANGAL - 506331
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INSTITUTE VISION

1. To be a centre for excellence in preparing the graduates professionally committed, intellectually adept and ethically balanced with high standards by imparting quality education with international standards to excel in their career to meet the challenges of the modern world and adapt to the technologically changing environment.

OUR MISSION

- M1: To strive hard to produce technically trained human resources to serve the present and future global needs by providing quality education.
- M2: To provide value based training in technological advancements and employment opportunities to students by strengthening institute's interaction with industries.
- M3: To disseminate knowledge of need based technical education, innovative learning and research & development.

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
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Department of
MECHANICAL ENGINEERING

VISION

1. To excel in preparing mechanical engineering graduates with core knowledge, advanced skills and professional ethics in order to meet the ever changing industrial demands and social needs.

MISSION

- M1: To provide the students with the best of knowledge by imparting quality education in the area of Mechanical Engineering and allied fields.
- M2: To facilitate the students by providing the interaction with Mechanical Engineering related companies to be part of technological advancements which enhances employment opportunities.
- M3: To inculcate self learning abilities, leadership qualities and professional ethics among the students to serve the society.

Accuracy : 8.8
time : 2019-12-23 12:41:41
longitude : 79.8496208
latitude : 17.9373171
null, Madhira D, Telangana
Weather : null
Temperature : -273.15°C

U. K. Srinivasan

Principal

Principal

Balaji Institute of Technology & Science

HEAD OF THE DEPARTMENT CABIN:

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKNEPALLY, NARSAMPET, WARANGAL - 506321

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Department of
MECHANICAL ENGINEERING

Program Educational Objectives (PEO's)

PEO1: To make the graduates who are equipped with technical knowledge and engineering skills through the program to achieve a successful career in the field of mechanical engineering.

PEO2: To participate in ongoing developments of mechanical engineering to be strong with the fundamentals and relate it with the present trends.

PEO3: To gain the practical knowledge through the program by identifying, formulating and solving mechanical engineering related problems.

Program Specific Outcomes (PSOs)

PSO1: Identify and analyze the real time engineering problems in Manufacturing, Design and Thermal domains.

PSO2: Execute the work professionally as an employee in industries by applying manufacturing and management practices.

PSO3: Gain the knowledge of latest advancements in mechanical engineering using Computer Aided Design and Manufacturing.

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Department of
MECHANICAL ENGINEERING

Program Outcomes (POs)

At the end of the program, the student 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, analyze complex engineering problems reaching 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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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.

Accuracy: 5.666

Time: 2019-12-23 12:40:22

longitude: 79.8495546

latitude: 17.9371402

null, Madhira D, Telangana

Weather: null

Temperature: -273.15°C

U. J. Subbarao
Principal

Principal
Balaji Institute of Technology & Science
Lakneppally, N. S. R. District, Warangal

FLUID MECHANICS/HYDRAULIC MACHINES LABORATORY

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKHIMPALLY, NARASIMPET, NARAYAL - 502011

Department of
MECHANICAL ENGINEERING

FLUID MECHANICS & HYDRAULIC MACHINERY LAB

LIST OF EQUIPMENT

1. Impact of jet on vanes test rig
2. Pelton Wheel test rig
3. Francis turbine test rig
4. Kaplan turbine test rig
5. Single stage centrifugal pump
6. Multi stage centrifugal pump
7. Reciprocating pump test rig
8. Venturi-orifice meter test rig
9. Flow through pipe to study major and minor losses
10. Bernoulli's apparatus

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LAKHIMPALLY, NARASIMPET, NARAYAL - 502011

Department of
MECHANICAL ENGINEERING

FLUID MECHANICS AND HYDRAULIC MACHINES LAB

LIST OF EXPERIMENTS

1. Impact of jets on vanes.
2. Performance test on Pelton wheel.
3. Performance test on Francis Turbine.
4. Performance test on Kaplan Turbine.
5. Performance test on single stage centrifugal pump.
6. Performance test on multi stage centrifugal pump.
7. Performance test on Reciprocating pump.
8. Calibration of venturimeter.
9. Calibration of orificemeter.
10. Determination of friction factor for a given pipe line.
11. Determination of loss of head due to sudden contraction in a pipe line.
12. Verification of Bernoulli's theorem.

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKHIMPALLY, NARASIMPET, NARAYAL - 502011

Department of
MECHANICAL ENGINEERING

FLUID MECHANICS AND HYDRAULIC MACHINES LAB

COURSE OBJECTIVES

1. To understand the basic principles of fluid mechanics
2. To identify various types of flows.
3. To understand boundary layer concepts and flow through pipes.
4. To evaluate the performance of hydraulic turbines.
5. To understand the functioning and characteristic curves of pumps.

COURSE OUTCOMES (COS)

After completion of the course students will be able to

- CO1: Explain the effect of fluid properties on a flow system.
- CO2: Identify type of fluid flow patterns and describe continuity equation.
- CO3: Analyze a variety of practical fluid flow and measuring devices and utilize fluid mechanics principles in design.
- CO4: Select and analyze an appropriate turbine with reference To given situation in power plants.
- CO5: Estimate performance parameters of a given centrifugal and reciprocating pump. Able to demonstrate boundary layer concepts.

Accuracy : 10.0
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Longitude : 79.8492241
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Weather : null
Temperature : -273.15°C


Principal

Principal

CAD/CAM LABORATORY

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKNEPALLY, NARSAMPET, WARANGAL - 506331

ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION

Department of
MECHANICAL ENGINEERING

VISION

To be a centre for excellence in preparing the graduates professionally committed, intellectually adept and ethically balanced with high standards by imparting quality education with international standards to excel in their career to meet the challenges of the modern world and adapt to the technologically changing environment.

MISSION

M1: To strive hard to produce technically trained human resources to serve the present and future global needs by providing quality education.

M2: To provide value based training in technological advancements and employment opportunities to students by strengthening institute's interaction with industries.

M3: To disseminate knowledge of need based technical education, innovative learning and research & development.

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKNEPALLY, NARSAMPET, WARANGAL - 506331

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Department of
MECHANICAL ENGINEERING

CAD/CAM LAB

COURSE OBJECTIVES

1. Model the 3D geometric information of machine components including assemblies, and automatically generate 2D production drawings, Understand the basic analytical fundamentals that are used to create and manipulate geometric models in a computer program.
2. Implement CNC programs for turning machining operations.

COURSE OUTCOMES (COS)

After completion of the course students will be able to

- C01: Design concepts for any design task in CAD/CAM Environment.
- C02: Apply computer methods for solving a wide range of engineering problems.
- C03: Use computer engineering software to solve and present problem solutions in a technical format.
- C04: Utilize computer skills to enhance learning and Performance in other engineering and science courses.
- C05: To develop knowledge and skills in designing using both AUTOCAD, CATIA, ANSYS Softwares.

Accuracy: 37.265

time: 2019-12-23 12:38:48

longitude: 79.8493832

latitude: 17.937571

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Weather: null

Temperature: -273.15°C


Principal

Principal
Balaji Institute of Technology & Science

<p>BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE LAKHIMPALLY NARSAMPET, NARANDAL, 505011</p> <p>ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION</p> <p>Department of MECHANICAL ENGINEERING</p> <p>VISION</p> <p>To excel in preparing mechanical engineering graduates with core knowledge, advanced skills and professional ethics in order to meet the ever changing industrial demands and social needs.</p> <p>MISSION</p> <p>M1: To provide the students with the best of knowledge by imparting quality education in the area of Mechanical Engineering and allied fields.</p> <p>M2: To facilitate the students by providing the interaction with Mechanical Engineering related companies to be part of technological advancements which enhances employment opportunities.</p> <p>M3: To inculcate self learning abilities, leadership qualities and professional ethics among the students to serve the society.</p> <p>Program Educational Objectives</p> <p>PEO1: To make the graduates who are equipped with technical knowledge and engineering skills through the program to achieve a successful career in the field of mechanical engineering.</p> <p>PEO2: To Participate in ongoing developments of mechanical engineering to be strong with the fundamentals and relate it with the present trends.</p> <p>PEO3: To gain the practical knowledge through the program by identifying, formulating and solving mechanical engineering related problems.</p>	<p>BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE LAKHIMPALLY NARSAMPET, NARANDAL, 505011</p> <p>ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION</p> <p>Department of MECHANICAL ENGINEERING</p> <p>MANUFACTURING PROCESS LAB</p> <p>COURSE OBJECTIVES</p> <ol style="list-style-type: none"> 1. Know about the basic Physical, Chemical properties of materials. 2. Explain why some material(s) are better to be used in a product for given design requirements. Learn the basic operation of various manufacturing processes. 3. Learn how various products are made using traditional, non-traditional, or Electronics. 4. Manufacturing processes design simple process plans for parts and products. 5. Understand how process conditions are set for optimization of production. 6. Learn how CNC machines work. 7. Write and execute CNC machining programs to cut parts on a milling machine. 8. Measure a given manufactured part to evaluate its size, tolerances and surface finish. <p>COURSE OUTCOMES (COS)</p> <p>After completion of the course students will be able to</p> <p>CO1: Extend the properties of moulding sands and pattern making.</p> <p>CO2: Fabricate joints using gas welding and arc welding.</p> <p>CO3: Evaluate the quality of welded joints.</p> <p>CO4: Analyze basic idea of press working tools and performs moulding studies on plastics.</p> <p>CO5: Know how casting, drilling, spinning, forging, grinding are done and demonstrate primary working skills on lathe machines.</p>	<p>BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE LAKHIMPALLY NARSAMPET, NARANDAL, 505011</p> <p>ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION</p> <p>Department of MECHANICAL ENGINEERING</p> <p>DO'S IN THE LABORATORY</p> <ol style="list-style-type: none"> 1. Dress code & Id card is mandatory. 2. Wear Apron & shoes before coming to the lab. 3. Be in time & sign in the login & logout register. 4. Bring your observation & Lab record. 5. Everyone should bring calculator. 6. Readings should be taken without parallax error. 7. Place the chairs properly while leaving the lab. 8. Report all accidents to lab In-charge. <p>DONT'S IN THE LABORATORY</p> <ol style="list-style-type: none"> 1. Don't come late to lab. 2. Don't carry mobiles to lab. 3. Do not write or scratch on the benches. 4. Do not wear slippers while coming to lab. 5. Don't do other work in lab. <p>PRECAUTIONS</p> <ol style="list-style-type: none"> 1. Never attempt to operate any equipment without prior permission of the instructor. 2. Do not bring food items into the laboratory. 3. Do not place personal belongings on the work table.
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Accuracy: 3.46
time: 2019-12-23 12:25:44
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Weather: null
Temperature: -273.15°C
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Principal

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of Technology & Science

THERMAL ENGINEERING LABORATORY

BITS BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKHIMPALLY, NARSAMPET, NARANGAL - 502311

ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION

MECHANICAL ENGINEERING

THERMAL ENGINEERING LAB

LIST OF EQUIPMENT

1. Flexible communication cable engine test rig.
2. Air compressor test rig.
3. Four stroke single cylinder petrol engine test rig.
4. Four stroke single cylinder diesel engine test rig.
5. Valve timing diagram for diesel engine (4 stroke).
6. Port timing diagram for petrol engine (4 stroke).
7. Two stroke single cylinder SI engine setup.
8. Study of boilers models.
9. Four stroke four cylinder petrol engine test rig.

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MECHANICAL ENGINEERING

THERMAL ENGINEERING LAB

LIST OF EXPERIMENTS

1. I.C. Engines valve/ port timing diagrams.
2. I.C. Engines performance test for four stroke SI engines.
3. I.C. Engines performance test for two stroke SI engines.
4. I.C. Engines Morse, retardation, motoring tests.
5. I.C. Engine Heat balance test on CI/SI engines.
6. I.C. Engines Economical speed test on a SI engine.
7. I.C. Engine effect of A/F Ratio in a SI engine.
8. Performance test on variable compression Ratio engine.
9. IC engine performance test on a four Stroke CI engine at constant speed.
10. Volumetric efficiency of Air-Compressor unit.
11. Dis-Assembly/Assembly of Engines. Study of Boilers.

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MECHANICAL ENGINEERING

THERMAL ENGINEERING LAB

COURSE OBJECTIVES

1. To understand the working principles of IC Engines, Compressors.

COURSE OUTCOMES (COS)

After completion of the course students will be able to

C01: Determine the valve timing diagram of SI engine & CI engine.

C02: Analyse the influence of variations in cut-off ratio on the performance of TDC and BDC operations.

C03: Calculate the IP, BP, brake thermal efficiency.

C04: Evaluate the performance characteristics.

C05: Experiment on IC engine load variations with air fuel ratio. Apply the concept of Morse test on SI engine. (Multi cylinder).

Accuracy: 2.96

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MECHANICAL DEPARTMENT BUILDING FIRST FLOOR

BITS BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKSHIPALLY NARSAMPET WARANGAL - 501321

ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION
www.bitswara.ac.in, website: www.bitswara.ac.in, Ph: 08083 50400, Fax: 08719 239021

Department of
MECHANICAL ENGINEERING

Program Educational Objectives (PEO's)

PEO1: To make the graduates who are equipped with technical knowledge and engineering skills through the program to achieve a successful career in the field of mechanical engineering.

PEO2: To participate in ongoing developments of mechanical engineering to be strong with the fundamentals and relate it with the present trends.

PEO3: To gain the practical knowledge through the program by identifying, formulating and solving mechanical engineering related problems.

Program Specific Outcomes (PSOs)

PSO1: Identify and analyze the real time engineering problems in Manufacturing, Design and Thermal domains.

PSO2: Execute the work professionally as an employee in industries by applying manufacturing and management practices.

PSO3: Gain the knowledge of latest advancements in mechanical engineering using Computer Aided Design and Manufacturing.

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Department of
MECHANICAL ENGINEERING

VISION

1. To excel in preparing mechanical engineering graduates with core knowledge, advanced skills and professional ethics in order to meet the ever changing industrial demands and social needs.

MISSION

M1: To provide the students with the best of knowledge by imparting quality education in the area of Mechanical Engineering and allied fields.

M2: To facilitate the students by providing the interaction with Mechanical Engineering related companies to be part of technological advancements which enhances employment opportunities.

M3: To inculcate self learning abilities, leadership qualities and professional ethics among the students to serve the society.

Accuracy: 5.5
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Principal

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FUELS AND LUBRICANTS LABORATORY

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKHAPALLY, NARSAMPET, NARANDAL - 506331

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Department of
MECHANICAL ENGINEERING

FUELS & LUBRICANT LAB

LIST OF EQUIPMENT

1. Redwood viscometer-I
2. Redwood viscometer- II
3. Saybolt viscometer
4. Cleveland's apparatus
5. Pensky marten's apparatus
6. Abel's apparatus
7. Carbon residue apparatus
8. Bomb calorimeter
9. Junkers gas calorimeter apparatus
10. Grease penetrometer apparatus
11. ASTM distillation apparatus
12. Cloud and Pour Point apparatus

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Department of
MECHANICAL ENGINEERING

FUELS AND LUBRICANTS LAB

LIST OF EXPERIMENTS

1. Determination of Flash and Fire points of Liquid fuels/Lubricants using Abel's Apparatus.
2. Determination of Flash and Fire points of Liquid fuels/Lubricants using Pensky Martens Apparatus.
3. Carbon residue test: Liquid fuels.
4. Determination of Viscosity of Liquid lubricants and Fuels using Saybolt Viscometer.
5. Determination of Viscosity of Liquid lubricants and Fuels using Red wood Viscometer-I&II.
6. Determination of Viscosity of Liquid lubricants and Fuels using Engler Viscometer.
7. Determination of Calorific value of Gaseous fuels using Junkers Gas Calorimeter.
8. Determination of Calorific value Solid/Liquid/fuels using Bomb Calorimeter.
9. Drop point and Penetration Apparatus for Grease.
10. ASTM Distillation Test Apparatus.
11. Cloud and Pour point Apparatus.

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Department of
MECHANICAL ENGINEERING

FUELS AND LUBRICANTS LAB

COURSE OBJECTIVES

After studying the contents of this course the student must be able

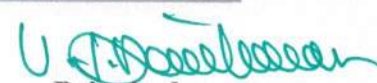
1. To understand the fuel and lubricants properties.

COURSE OUTCOMES (COS)

After completion of the course students will be able to

- CO1: Illustrate the viscosity of liquid lubricants.
- CO2: Understand the calorific values of solid and gaseous fuels.
- CO3: Analyse the flash and fire points of liquid fuels.
- CO4: Observe the carbon residue for fuels.
- CO5: Compare the depth Penetration for different lubricants.

Accuracy: 6.96
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Weather: null
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Principal

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DISPLAY OF PROGRAM OUTCOMES(POS) IN THE CORRIDOR

BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE
LAKNEPALLY, NARGAMPET, WARANGAL - 506331
ESTD. 2004
ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION
www.bitswgl.ac.in, email: principal@bitswgl.ac.in, Ph: 98660 50044, Fax: 08718-230531
(Approved by AICTE, Hyderabad and Approved by the AICTE, New Delhi)

Department of
ELECTRONICS & COMMUNICATION ENGINEERING

PROGRAM OUTCOMES (POs)

PO1: Engineering Graduates will be able to:
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 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.

Accuracy: 36.697
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Principal

DISPLAY OF PROGRAM EDUCATIONAL OBJECTIVES(PEOS) AND PSOS IN THE CORRIDOR

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New Delhi)
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044, Fax: 08718-230521


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 **BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE**
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Department of
ELECTRONICS & COMMUNICATION ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Excel in professional career by understanding fundamental knowledge of science and mathematics to solve problems in Electronics and Communication Engineering.

PEO2: Acquire core knowledge to design, analyze and simulate appropriate systems to provide solutions to the real life problems facing the society.

PEO3: Inculcate skills in Research & Development with professional deft.

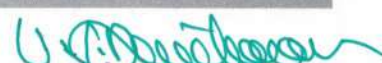
PEO4: Develop ethical attitude, Communication skills, applying and adapting new technologies in multi-disciplinary domains.

PROGRAM SPECIFIC OUTCOMES(PSOs)


PSO1: Students shall have knowledge on specific problems in Industrial and Domestic automation and ability to provide prototype solutions using (i) Advanced Micro Controllers/Processors & DSP processor, (ii) Software Tools.

PSO2: Developing student's ability to Design and Simulate Architectures in VLSI domain using Xilinx and FPGA, thereby, evaluating and analyzing the performance of them by EDA Tools.

Accuracy: 35.988
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DISPLAY OF COURSE OUTCOMES(COS) IN MPMC LAB

**BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE**
LAKNEPALLY, NARSAMPET, WARANGAL - 506331
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ACCREDITED BY NAAC & ISO 9001:2015 CERTIFIED INSTITUTION
www.bitswgi.ac.in email: principal@bitswgi.ac.in Ph: 98660 50044 Fax: 98718 230521

Department of
ELECTRONICS & COMMUNICATION ENGINEERING


COMPUTER ORGANIZATION LAB

Course Objectives

1. Understanding the behaviour of Logic Gates, Adders, Decoders, Multiplexers and Flip-Flops.
2. Understanding the behaviour of ALU, RAM, STACK and PROCESSOR from working modules and the modules designed by the student as part of the experiment.

Course Outcomes

- C01: Analyze the behaviour of logic gates.
- C02: Design combinational circuits for basic components of computer system and applications.
- C03: Analyze the operational behaviour and applications of various Flip - Flop.
- C04: Design Arithmetic logic units and different types of memory blocks.
- C05: To familiarize with the assembly language programming.

**Accuracy: 58.087**
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longitude: 79.8496776
latitude: 17.9379193
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