



MBTS

GOVERNMENT POLYTECHNIC



◆ NALLAPADU, GUNTUR - 522 508 ◆

Empowering Education. Enriching Lives. Building Future.



NEWSLETTER

2023-24



**QUALITY
EDUCATION**

Industry-aligned curriculum
delivered by experienced
faculty.



**MODERN
INFRASTRUCTURE**

Well-equipped labs and
workshops for hands-on
learning.



**PLACEMENTS &
CAREER SUPPORT**

Dedicated placement cell
connecting students with
top recruiters.



**NBA
ACCREDITED**

Accredited by NBA for
maintaining high standards
in technical education.



**HOLISTIC
DEVELOPMENT**

Encouraging innovation,
leadership, and overall
personality overall.

MESSAGE FROM OUR LEADERSHIP



FROM THE PRINCIPAL'S DESK



I am pleased to present this newsletter, highlighting the achievements and activities of our college. I congratulate our students and faculty for their dedication and wish them continued success in all their endeavors.

A handwritten signature in green ink, likely belonging to the Principal.

Principal, MBTS Government Polytechnic

HEAD OF DEPARTMENT (HOD) REFLECTIONS



This newsletter reflects the hard work and accomplishments of our department. I appreciate the efforts of our students and faculty and encourage them to continue striving for excellence.

HOD, CSE

A handwritten signature in green ink, likely belonging to the HOD, Y. Ravindra Babu.

COLLEGE NEWSLETTER

MBTS Government Polytechnic

EDITORIAL BOARD

Capturing Memories • Celebrating Achievements • Inspiring Excellence



Dr. Y. Ravindra Babu

Head of the Department
Department of Computer Engineering



N. Bindu

Faculty Coordinator
Lecturer in Computer Engineering

STUDENT EDITORS



Gompa Sohinth
Student Editor



Nikhil Kakuamnu
Student Editor



Chiruguri Ravindra
Student Editor



Orsu Prabhu Kumar
Student Editor



Y.Purna Venkat Sai Kumar
Student Editor

“ The success of this newsletter is the result of the dedication, teamwork, and creativity of our editorial team. ”

CONTACT US

Department of Computer Engineering
MBTS Government Polytechnic
Nallapadu, Guntur – 522005

✉ Email: cse@mbtspolytechnic.ac.in | ☎ Phone: 0863-2291234

VISION

Develop Computer Engineers to be technologically adept, innovative, self-motivated and responsible citizen with human values , high quality skills and to contribute significantly towards ever changing Computer Technologies.

MISSION

M1

To provide opportunity to Diploma students who are capable of playing pivotal role in wide aspects of modern Computer Engineering.

M2

To make the students understand basic concepts underlie in Computer Engineering and able to apply them creatively in different fields of Engineering

M3

To train the student sansitive to the Environment, safety and economic context.

M4

To produce technically skilled students through intensive training in Computer Engineering tools and application and to prepare the students for professional career and further research.

PROGRAM OUTCOMES (POs)

Students completing Diploma in Computer Engineering are anticipated to have the following abilities

PO1

Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2

Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3

Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4

Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5

Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6

Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7

Life-long learning: Ability to analyse individual needs and engage in context of technological changes.

PROGRAMME EDUCATIONAL OBJECTIVES(PEOs)

Computer Engineering programme is ever changing to transform to transform students into competent professionals with qualities, ethics and human values . On completion of the integrated programme, the students should have acquired the following characteristics

PE01

To produce best Diploma in Computer Engineering technicians by correlating growing need of the industries in modern topics with the academic input and giving the technical knowledge for further learning.

PE02

To prepare the students as productive Computer Engineers, possessing supportive and leadership skills in multidisciplinary domains, expertise in Practical orientation, Communication Skills and latest developments.

PE03

To give the depth of related skills and expertise in a single field, and the ability to collaborate with other disciplines and work at the Supervisory cadre.

PE04

To promote the students in professionalism, by successful completion of the Diploma in Computer Engineering by emphasizing Field Practices in industry-oriented activities.

PE05

To sensitize the students on social and economic commitment and to inculcate a nature to guard the values of community and protect environment.

Our COMPUTER LABS & CLASSROOMS

EMPOWERING IDEAS. ENHANCING SKILLS. BUILDING FUTURES.



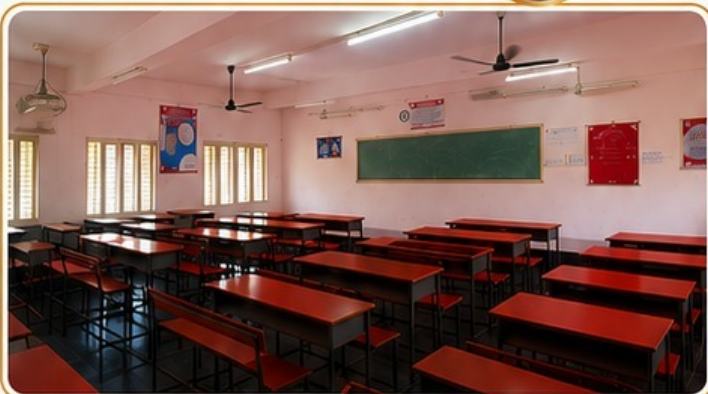
Our computer laboratories and classrooms are well-equipped with modern facilities to promote interactive learning, innovation, and practical excellence.



COMPUTER LABORATORIES



CLASSROOMS



**COMMITTED TO
KNOWLEDGE.
DEDICATED TO
EXCELLENCE.**

Our advanced computer labs and well-designed classrooms create an ideal environment for effective teaching, hands-on learning, and overall student development.

LEARNING SPACES

EMPOWERING MINDS. ENRICHING KNOWLEDGE. INSPIRING EXCELLENCE.



Our library provides a rich collection of resources, a peaceful environment, and the perfect space to explore, learn, and grow.

OUR LIBRARY



Library – Overview



Books Collection



Reading Area



Digital Resources Section



Journals & Periodicals



COMMITTED TO KNOWLEDGE. DEDICATED TO EXCELLENCE.

Our library supports academic growth by providing access to quality resources, digital tools, and a serene environment for focused learning and research.

ACADEMIC EXCELLENCE



ACHIEVING TODAY, LEADING TOMORROW



ACADEMIC TOPPERS

1ST YEAR TOPPER



V. Akshara

BRANCH : CME

MARKS : 955 / 1000

95.5%

2ND YEAR TOPPER



A. Durga Prasad

BRANCH : CME

MARKS : 884 / 900

98.22%

3RD YEAR TOPPER



M. Devi Priya

BRANCH : CME

MARKS : 864 / 900

96.00%

OUR MESSAGE

“

Excellence is achieved through dedication, discipline, and determination. We proudly celebrate our academic toppers whose outstanding performance reflects their hard work and inspires every student to strive for greater success.

”





INTER POLYTECHNIC SPORTS AND GAMES MEET (IPSGM)

ANNUAL SPORTS MEET | 2023-2024



EVENT SUMMARY



A successful meet showcasing the athletic spirit of our student community. Over 10 colleges participated. We are proud of our CME Branch athletes who gave their all. This year, no podium places were secured by our college, but the effort and sportsmanship were unparalleled.

Participation is the real victory. Onwards to next year!



MBTS GOVERNMENT POLYTECHNIC COLLEGE 2023-2024

COLLEGE LEVEL 2K23 COLLEGE FEST

Cultural Beats of MBTS



FESTIVAL HALL OF CHAMPIONS CULTURAL BEATS 2K23 • EXCELLENCE HONORS



Our student performers displayed exemplary talent and a high standard of artistic discipline, inspiring the whole college. Their commitment to cultural excellence was a highlight of the festival.

Congratulations!

★ PROUD MOMENT FOR OUR COLLEGE ★

◆ WE ARE DELIGHTED TO ANNOUNCE THAT ◆



PLACED WITH PRIDE

◆ **Shaik Sameera Bhanu** ◆



PIN NO. : 21014-CM-050



COMPANY NAME : Thoughtworks



PACKAGE : 8Lpa



We are proud to share that **Shaik Sameera Bhanu**, a dedicated and hardworking student, has been successfully placed in **Thoughtworks**, with an impressive package of **8Lpa**. Her achievement is a testament to her skills, perseverance, and the quality education provided by our college.

We wish her all the best for a bright and successful career ahead!

➤ *Heartiest Congratulations!* ➤

FROM MANAGEMENT, FACULTY AND STUDENTS

Congratulations!


★ PROUD MOMENT FOR OUR COLLEGE ★

◆ WE ARE DELIGHTED TO ANNOUNCE THAT ◆



PLACED WITH PRIDE

◆ Kappala Rohini Priyamvada ◆

 PIN NO. : 21014-CM-022

 COMPANY NAME : Thoughtworks

 PACKAGE : 8LPA



We are proud to share that **Kappala Rohini Priyamvada**, a dedicated and hardworking student, has been successfully placed in **Thoughtworks**, with an impressive package of **8LPA**. Her achievement is a testament to her skills, perseverance, and the quality education provided by our college.

We wish her all the best for a bright and successful career ahead!

◆ *Heartiest Congratulations!* ◆

FROM MANAGEMENT, FACULTY AND STUDENTS



STUDENT INDUCTION PROGRAM 2023-2024



A THREE-DAY ORIENTATION PROGRAM FOR FIRST YEAR STUDENTS

The Department of Computer Engineering, MBTS Government Polytechnic, Guntur organized a three-day induction program to welcome new students and help them adapt to the academic environment, campus life, and future opportunities. The program emphasized personality development, communication skills, career guidance, and awareness of emerging technologies.



PROGRAM HIGHLIGHTS

- Institution & Department Orientation
- Campus Tour & Familiarization
- Sessions on Communication & Personality Development
- Career Guidance & Opportunities
- Awareness on Emerging Technologies
- Interactive Activities & Group Discussions
- Industry Expert Interaction

KEY OUTCOMES

- Enhanced communication, interpersonal and confidence.
- Familiarity with academic system, campus facilities and student services.
- Awareness of career paths, opportunities and industry expectations.
- Motivated and prepared for a successful academic journey.



← Welcoming Future Engineers to a Journey of Learning and Innovation →



STUDENT INDUCTION PROGRAM 2023 - 2024



A THREE-DAY ORIENTATION PROGRAM FOR FIRST YEAR STUDENTS

MBTS GOVERNMENT POLYTECHNIC, GUNTUR
DEPARTMENT OF COMPUTER ENGINEERING

The Department of Computer Engineering organized a Three-Day Student Induction Program for first year students to help them adapt to the academic environment, campus life, and future opportunities. The program focused on personality development, communication skills, career guidance, and awareness of emerging technologies.

PROGRAM HIGHLIGHTS



PROGRAM OUTCOMES

- ✓ Familiarized students with the institution, curriculum and campus facilities.
- ✓ Enhanced communication, interpersonal and professional skills.
- ✓ Created awareness about career opportunities, scholarships, and student support services.
- ✓ Motivated students towards academic excellence and overall development.



FILE EVIDENCE FOR NBA

- | | |
|----------------------------|-----------------------------------|
| ✓ Circular | ✓ Feedback Forms |
| ✓ Brochure | ✓ Feedback Analysis Report |
| ✓ Schedule | ✓ News Letter Report |
| ✓ Attendance Sheets | ✓ Proceedings & Completion Report |
| ✓ Photos (Day-wise) | |
| ✓ Resource Person Profiles | |

“

*Orientation is the first step towards transformation.
We welcome our new students to a journey of learning, growth and success.*



LEARN • GROW • EXPLORE • SUCCEED

”

FACULTY DEVELOPMENT PROGRAM (FDP)

EMPOWERING EDUCATORS. ENRICHING KNOWLEDGE. ELEVATING EXCELLENCE.



Our faculty members continuously enhance their skills and knowledge by participating in Faculty Development Programs (FDPs) to stay updated with the latest trends and deliver quality education.

CERTIFICATE OF PARTICIPATION

No: 06/2026/1/M1-M8/97059



अखिल भारतीय तकनीकी शिक्षा परिषद्
प्रमाणपत्र



प्रमाणित किया जाता है कि
बिन्दु नाल्लगुण्डला
एनआईटीटीटी संजीवन क्रमांक : 20231136242
ने
राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण पहल के अंतर्गत
संशुद्ध 1 : तकनीकी शिक्षा और पाठ्यपत्रों सहसुर्जा का अभिविन्यास
संशुद्ध 2 : व्यक्ति का चार मोर्चा और आसुर्जीवना
संशुद्ध 3 : संवाग कोशुग, मोड और कवग वगार
संशुद्ध 4 : कसुदेशासुगड मोवना और सुसुर्जीवनी
संशुद्ध 5 : शेषुधुविकी कवसुधुव अभिवग और आसुर्वत व्काशुधुवग
संशुद्ध 6 : शरुव धिवरुधुवण और सुधुधुवकसुग
संशुद्ध 7 : सुधुधुवसुधुवक सधुधुवशा सधुधुवधुवण, सधुधुवशरुव और सधुधुवक आर 8 की
संशुद्ध 8 : सधुधुवगधुवण शरुवधुवण और शरुवधुवकधुवक आरुधुवधुवधुवग
को सधुधुवता सुर्वक सुधुधुव कियुग।

All India Council for Technical Education (AICTE)
Certificate
This is to certify that
BINDU NALLAGUNDLA
NITTT Registration No: 20231126242
has successfully completed

Module 1 : Onontation towards Technical Education and Curiculom Aspects
Module 2 : Professional Ethics and Sustainability
Module 3 : Communication Skills, Modes and Knowledge Dissimination
Module 4 : Instrutional Planning and Baimary
Module 5 : Technology Emboled Learning and Lite-Long Self Learning
Module 6 : Student Assessment and Evaluation
Module 7 : Srobtrex,eshuधुवg,samvling, inovation and Meaninglit & N. D
Module 8 : Institutional Management and Administrative Procedures

National Initiative for Technical Teachers Training

 Director
NITTT, Bhopal

 Director
NITTT, Bhandigarh

 Member Secretary
AICTE

 Director
NITTT, Chennai

 Director
NITTT, Nitikata

SEPTEMBER 2024

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FACULTY NAME : Ms. Bindu Nallagundla



HOURS : Not Specified



PROGRAM TITLE : National Initiative for
Technical Teachers Training
(NITTT) - Full Course



ORGANIZED BY : AICTE - NITTT



DURATION : (Modules 1-8)



DATE : September 2024



COMMITTED TO GROWTH. DEDICATED TO EXCELLENCE.

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FACULTY DEVELOPMENT PROGRAM (FDP)




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CERTIFICATE OF PARTICIPATION

No: 03/2025/1/M1-M5/96988

अखिल भारतीय तकनीकी शिक्षा परिषद (AICTE)

प्रमाणपत्र

प्रमाणित किया जाता है कि

ब्यारनी सरोजा

एनआईटीटीटी पंजीकृत क्रमांक : 20231126155

ने

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण पडल के अंतर्गत

मॉड्यूल 1 : प्रकनीकी शिक्ष और पाठ्यक्रम के अंशों का अपिपुत्रीकरण
मॉड्यूल 2 : प्तिाक अस्वार मीति और कोवासीजस
मॉड्यूल 3 : संपल कोसल, पीड और ज्ञाप प्रसार
मॉड्यूल 4 : वदुदेकरक ववेजस और मुर्दनी
मॉड्यूल 5 : चौनीदिकी प्रनचित अरिखच और आजीकर र्वाकिरम
मॉड्यूल 6 : साय पुष्कांकन और पुष्कांकन
मॉड्यूल 7 : रुरुगवक सररका अस्फार, रसानार और सर्यस जार & डी
मॉड्यूल 8 : संरमानय प्रवेचर और प्रकागधिक कार्रविधि

की सफलता पूर्वक पूर्ण किया।

All India Council for Technical Education (AICTE)

Certificate

This is to certify that

BYSANI SAROJA





NITTTR Registration No: 20231126155






has successfully completed

Module 1 : Orientation towards Technical Education and Curriculum Aspects
Module 2 : Professional Ethics and Eukattability
Module 3 : Inarraunication Sinile, Modes and Knowledge Dissamination
Module 4 : Instructional Plovring and Defvera
Module 5 : Technology Enabled Learning and Life-Long Self Learning
Module 6 : Student Assesment and Evaluation
Module 7 : Creative problem Solving, Innovation and Meaningful R & D
Module 6 : Institutional Management and Administrative Procedures

of

National Initiative for Technical Teachers Training

 Director NITTTR, Bhopal
 Director NITTTR, Chandigarh
 Member Secretary AICTE
 Director NITTTR, Chennai
 Director NITTTR, Kolkata

SEPTEMBER 2024

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FACULTY NAME : Ms. Bysani Saroja



PROGRAM TITLE : National Initiative for Technical Teachers Training (NITTTR) Module 1 to Module 8



ORGANIZED BY : AICTE – NITTTR



DATE : September 2024



COMMITTED TO GROWTH. DEDICATED TO EXCELLENCE.

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CERTIFICATE OF PARTICIPATION

No: 06/2026/L/MT-MS/105986



अखिल भारतीय तकनीकी शिक्षा परिषद

प्रमाणपत्र
विगतिक कर्तु पवन

प्रमाणित किया जाता है कि

20232126327

एषागडेडीतीडे र्जजीवन नानांक :

३

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण पत्र के अंतर्गत

मॉड्यूल 1 : एतनीकी विगत जीर अनुनकन नकडुती कन अविधि नरन
मॉड्यूल 2 : वैजीवन आनवरन जीर अविन रननविगत
मॉड्यूल 3 : सोनर कौशल, जीर अविन अरन कन
मॉड्यूल 4 : नकडुतीक डीकन जीर विजीवरी
मॉड्यूल 6 : जीरडीविनडे कनकविन अविनन जीर आगीवन रननविन
मॉड्यूल 6 : एनन नुननकन जीर नुननकन
मॉड्यूल 7 : कनकनक कनकन कनकन, नकनर जीर कनकन कन & डी
मॉड्यूल 8 : र्जजीवन कनकन जीर कनकनकन कनकनकन
नन सननन नुनन नुनन कनकन !

All India Council for Technical Education (AICTE)

Certificate 20232126327

This is to certify that
KIRITI BABU YADALA
NITT Registration No:
has successfully completed

Module 1 : Orientation Elements Technical Education and Curriculum Aspects
Module 2 : Professional Roles and Responsibilities
Module 3 : Communication Skills, Mindset, and Knowledge Dissemination
Module 4 : Trainee Training and Pedagogy
Module 5 : Technology Enabled Learning and Life-Long Learning
Module 6 : Student Assessment and Certification
Module 7 : Creative Problem Solving, Innovation and Meaningful R & O
Module 8 : Institutional Management and Administrative Procedures

of
National Initiative for Technical Teachers Training


Director
NITTTR, Bhopal


Dr. S.S. Patnalk
NITTTR, Chandigarh


Prof. Rajive Kumar
AICTE


Dr. Usha Natesan
NITTTR, Chennai


Dr. Debi Prasad Mishra
NITTTR, Kolkata



FEBRUARY 2024



FACULTY NAME : Mr. Kiriti Babu Yadala



PROGRAM TITLE : National Initiative for
Technical Teachers Training
(NITTTR) Module 1 to Module 8



ORGANIZED BY : AICTE - NITTTR



DATE : February 2024



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CERTIFICATE OF COMPLETION



CENTRE OF EXCELLENCE IN MARITIME AND SHIPBUILDING



CENTRE OF EXCELLENCE IN MARITIME AND SHIPBUILDING

(A Skill Development Initiative by Govt. of India / Ministry of Ports, Shipping and Waterways/ Sagarmala)

Certificate of Completion

This is to certify that **Y. KIRITI BABU**, Lecturer in CME from **MBTS Government Polytechnic, Nallapadu** with registration number **AP/VTZ/4002/09-2023/23** has successfully completed industrial training program in **Cyber Security and IoT**

Conducted by

Centre of Excellence in Maritime & Shipbuilding, Visakhapatnam

from **04-Sep-2023** to **23-Sep-2023**

Place: Visakhapatnam

Date: 23/09/2023



Authorized Signatory

K. Sethu Madhavan

K. Sethu Madhavan
Chief Executive Officer - CEMS

www.cemsindia.org



FACULTY NAME : Y. KIRITI BABU



PROGRAM TITLE : Cyber Security and IoT



ORGANIZED BY : Centre of Excellence in Maritime & Shipbuilding, Visakhapatnam



REGISTRATION NO. : AP/VTZ/4002/09-2023/23



DATE : 23/09/2023



PLACE : Visakhapatnam



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CERTIFICATE OF COMPLETION



CENTRE OF EXCELLENCE IN MARITIME AND SHIPBUILDING

(A Skill Development Initiative by Govt. of India / Ministry of Ports, Shipping and Waterways/ Sagarmala)

Certificate of Completion

This is to certify that **BVS.NAGARAJU, Lecturer in CME from MBTS**

Government Polytechnic, Nallapadu with registration number

AP/VTZ/4002/09-2023/08 has successfully completed

industrial training program in **Cyber Security and IoT**

Conducted by

Centre of Excellence in Maritime & Shipbuilding, Visakhapatnam

from **04-Sep-2023 to 23-Sep-2023**

Place: Visakhapatnam

Date: 23/09/2023



Authorized Signatory

K. Sethu Madhavan

K. Sethu Madhavan

Chief Executive Officer - CEMS

www.cemsindia.org



FACULTY NAME : BVS.NAGARAJU



PROGRAM TITLE : Cyber Security and IoT



ORGANIZED BY : Centre of Excellence in Maritime & Shipbuilding, Visakhapatnam



REGISTRATION NO. : AP/VTZ/4002/09-2023/08



DATE : 23/09/2023



PLACE : Visakhapatnam



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MBTS GOVERNMENT POLYTECHNIC COLLEGE 'S TECHNICAL QUIZZES PROGRAM 2023



The 2023 **Technical Quizzes Program** concluded with remarkable innovation and talent on display. Participants demonstrated exceptional problem-solving skills across intense challenges. Our thanks to the judges, participants, and sponsors for making this another successful event.

MBTS GOVERNMENT POLYTECHNIC COLLEGE 'S CODING COMPETITION 2023



The 2023 **Coding Competition** concluded with remarkable innovation and talent on display. Participants demonstrated exceptional problem-solving skills across intense challenges. Our thanks to the judges, participants, and sponsors for making this another successful event.

A Glimpse into Industry: **BID ALERT Visit**



Our college organized an industrial visit to BID ALERT Company to gain practical exposure to industry operations. During the visit, we learned about the company's workflow, technologies, and services. Experts shared valuable insights on current industry trends and opportunities. The visit helped us connect theoretical knowledge with real-world applications and enhanced understanding of professional environments. Overall was an informative and valuable experience

STUDENT PROJECT ABSTRACT

This page presents the abstract, team details, and other relevant information of a project carried out by final year students of the Department of Computer Engineering.

PROJECT TITLE

HEART DISEASE PREDICTION



TEAM MEMBERS

- Ch. LOKNADH (21014-CM-006)
- B. SRI RAMYA (21014-CM-003)
- D. SURESH (21014-CM-009)
- Ch. BALA VENKATESHWARAO (21014-CM-060)



GUIDE

Smt. N BINDU, Lecturer/CME



DEPARTMENT

Computer Engineering



INSTITUTE

MBTS Government Polytechnic College
Nallapadu, Guntur Dist,
Andhra Pradesh, India, PIN: 522005



DEGREE

Diploma in Computer Engineering



BATCH

2023 – 2024



ABSTRACT

Machine Learning techniques are applied to predict the risk of heart disease using patient medical data. We preprocess the data and evaluate multiple algorithms. Among them, Random Forest provides the highest accuracy and reliable performance. The model can assist doctors in early diagnosis and better decision-making.

KEY FINDINGS

- Random Forest achieved the best accuracy.
- Important features influence heart disease risk.
- The model can support early prediction and prevention.



TECHNOLOGIES USED

- ✓ Logistic Regression
- ✓ Python Programming
- ✓ Naïve Bayes
- ✓ Decision Tree
- ✓ Random Forest
- ✓ Confusion Matrix, Correlation Matrix

MENTOR



Name : N.Bindhu

Designation : Lecturer

Department : CME

Institute : MBTS Government Polytechnic



KEYWORDS

- Logistic Regression
- Python Programming
- Confusion matrix
- Correlation matrix
- Naïve Bayes
- Decision Tree
- Random Forest



These projects reflect the creativity, technical proficiency, and commitment of our students towards societal development.

STUDENT PROJECT ABSTRACTS



The following is the project abstract of a final year student of the Department of Computer Engineering, demonstrating the application of knowledge, problem-solving skills, and innovative thinking to real-world problems.



HEALTHCARE USING BLOCKCHAIN



TEAM MEMBERS

- Thota. Rishi Kumar (21014-CM-054)
- Shaik. Mahammad Rafi (21014-CM-049)
- Fareed. Mohammad Asif (21014-CM-061)
- Bandrapalli. Naga Santhosh (21014-CM-004)



GUIDE

B. Saroja, Lecturer in CME



DEPARTMENT

Computer Engineering



BATCH

2023-2024



KEY TECHNOLOGIES



Ethereum



React.js



Node.js



MongoDB



MetaMask



KEY FEATURES

- Secure and tamper-proof storage of patient records using blockchain.
- Role-based access control for patients, doctors, and hospitals.
- Real-time sharing of health data with authorized stakeholders.
- Transparent and immutable record tracking.
- Improved privacy, security, and interoperability in healthcare.



CONCLUSION

The proposed system ensures a trustworthy and efficient healthcare data management solution using blockchain technology. It enhances data security, minimizes unauthorized access, and empowers patients with control over their health information.



KEYWORDS

- Blockchain
- Healthcare
- Data Integrity
- Security
- Smart Contracts
- Patient Privacy
- Decentralization



PROJECT DETAILS

Domain : Blockchain, Healthcare
Type : Web Application
Duration : Jan 2024 – Apr 2024
Platform : Ethereum Blockchain
Tools : Solidity, React.js, Node.js, MongoDB, MetaMask
Language : Solidity, JavaScript
IDE : Visual Studio Code



ABSTRACT

This project proposes a blockchain-based healthcare system that ensures secure storage, sharing, and management of patient records. It provides data integrity, transparency, and access control while preserving patient privacy. The system enables authorized stakeholders to access real-time health information, reduces data tampering, and improves interoperability across healthcare entities.

MENTOR



Name : B.Saroja
Designation : Lecturer
Department : CME
Institute : MBTS Government Polytechnic



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STUDENT PROJECT ABSTRACT

This page presents the abstract, team details, and other relevant information of a project carried out by final year students of the Department of Computer Engineering.

PROJECT TITLE

EARTHQUAKE EARLY WARNING (EEW)

TEAM MEMBERS

- MAKKENA. LAHARI (21014-CM-033)
- NAGA ANUHYA (21014-CM-055)
- BANAVATHU. VAMSI (21014-CM-021)
- THRUVEDHULA. TEJA VENKATA (21014-CM-042)
- PULLI. KEERTHI SYAMALA (21014-CM-041)

PROJECT GUIDE

Sri. Y. KIRITI BABU, Lecturer

HEAD OF THE DEPARTMENT

Sri. Y. RAVINDRA BABU

DEPARTMENT

Department of Computer Engineering

INSTITUTE

MBTS Government Polytechnic,
Guntur

DEGREE

Bachelor of Technology in
Computer Engineering

ACADEMIC YEAR

2023 – 2024

ABSTRACT

We develop a random forest (RF) model for rapid earthquake location with an aim to assist earthquake early warning (EEW) systems in fast decision making. This system exploits P-wave arrival times at the first five stations and computes their respective arrival time differences to a reference station. These differential P-wave arrival times and station locations are classified in the RF model to estimate the epicentral location. The RF model predicts the earthquake locations with a high accuracy, achieving a Mean Absolute Error (MAE) of 2.88 km. As importantly, the proposed RF model can learn from a limited amount of data (i.e., 10% of the dataset) and much fewer (i.e., three) recording stations and still achieve satisfactory results (MAE < 5 km).

- 1) the first few seconds after the P-wave arrival
- 2) the first few seismograph stations that are triggered by the ground shaking.

TECHNOLOGIES USED

- ✓ Random Forest
- ✓ P-wave Arrival
- ✓ Epicenter Localization
- ✓ Earthquake Monitoring
- ✓ Early Warning (EEW)
- ✓ Seismology
- ✓ Seismic Hazard
- ✓ Real-time Detection

MENTOR



Name : Kiriti Babu

Designation : Lecturer

Department : CME

Institute : MBTS Government
Polytechnic, Guntur

KEYWORDS

- Random Forest
- P-wave Arrival
- Epicenter Localization
- Early Warning (EEW)
- Seismology
- Hypocenter
- Machine Learning
- Earthquake Monitoring
- Seismic Hazard
- Real-time Detection



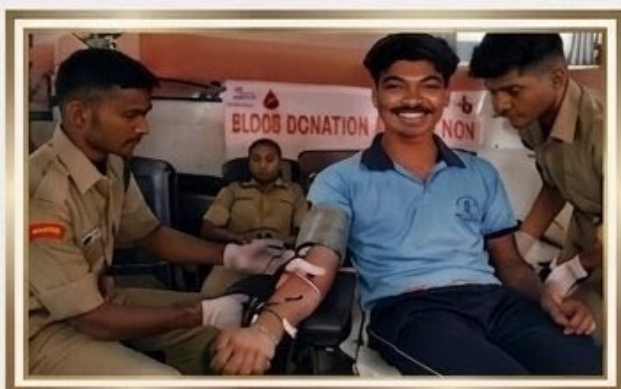
These projects reflect the creativity, technical proficiency, and commitment of our students towards societal development.

MBTS COLLEGE NCC UNIT: PROUD CONTRIBUTION OF LIFE



A Commemorative Report

Organized by
MBTS COLLEGE NCC Unit



Our college NCC students successfully organized a Blood Donation Camp in collaboration with a local hospital. The camp witnessed active participation from students and staff, who voluntarily donated blood for a noble cause.

The event was well-managed by NCC cadets, ensuring smooth coordination and safety. The camp helped raise awareness about the importance of blood donation and contributed to saving lives.



NCC SWACHH BHARAT ACTIVITIES REPORT



National Cadet Corps, [Insert State] Directorate

- **1. VILLAGE CLEANLINESS DRIVES:** Comprehensive sanitation work in 10 adopted villages, waste segregation awareness.
(Image shown is a conceptual placeholder)
- **2. AWARENESS RALLIES:** Over 500 cadets led street plays (Nukkad Natak) and marches on hygiene and waste.
(Image shown is a conceptual placeholder)
- **3. HERITAGE SITE CARE:** Monthly cleaning and restoration support for local historical monuments.
(Image shown is a conceptual placeholder)
- **4. TREE PLANTATION:** Planting 2000+ saplings along state highway medians.
(Image shown is a conceptual placeholder)
- **5. POND REJUVENATION:** Cleaning silt and refuse from two local community water bodies.
(Image shown is a conceptual placeholder)
- **6. WASTE MANAGEMENT WORKSHOPS:** Training sessions for locals on composting and solid waste segregation.
(Image shown is a conceptual placeholder)



Cadets participating in a plastic collection drive.



NCC TREE PLANTATION DRIVE



CADET ENGAGEMENT
NCC Cadets planting saplings



COMMUNITY PARTNERSHIP
Cadet Volunteers Working in the Field



1. PLANNING & PREPARATION

- Site Selection, Soil Testing, Native Sapling Sourcing



2. TRAINING & WORKSHOPS

- Planting techniques, Care and Maintenance education



3. PLANTATION EVENT

- Organized, large-scale planting drives



4. POST-PLANTATION CARE

- Monitoring, Watering, Long-Term Survival Tracking





NATIONAL CADET CORPS (NCC) AWARENESS PROGRAMS & ACTIVITIES

KEY AWARENESS INITIATIVES

- Clean India Mission (Swachh Bharat Abhiyan):** Community cleanliness drives and campaigns. Description of the activities and community engagement efforts under this initiative.
- Road Safety & Traffic Rules:** Awareness rallies and workshops on road discipline. Description of the activities and community engagement efforts under this initiative.
- Water Conservation:** Campaigns to promote saving water and rainwater harvesting. Description of the activities and community engagement efforts under this initiative.
- Tree Plantation & Environmental Care:** Planting saplings and ecosystem restoration projects. Description of the activities and community engagement efforts under this initiative.
- Health & Hygiene:** Awareness against specific diseases (e.g., vaccination, and personal hygiene). Description of the activities and community engagement efforts under this initiative.
- Disaster Management Training:** Mock drills, first aid workshops, and basic rescue techniques. Description of the activities and community engagement efforts under this initiative.



AWARENESS PROGRAM

PHOTO GALLERY

— ☆ — Capturing Memories of 2023-24 — ☆ —

Capturing Memories • Celebrating Achievements • Inspiring Excellence



“ Every picture holds a memory,
and every memory tells a story
of growth, excellence and success. ”

