MALLA REDDY INSTITUTE OF TECHNOLOGY AND SCIENCE

Vol – 2 Issue – 2 **2022-2023**

Department of CSE(Artificial Intelligence & Machine Learning)

News Letter

2022-2023

CSE(AI&ML) News Letter

2022-2023

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About the College

Malla Reddy Institute of Technology and Science (MRITS) is an institution comfortable with the unique model of the technical education where the discovery, dissemination and application of knowledge are synergistically balanced. It is a part of larger societal systems and dynamically fuelled by the process of involvement – involvement in the needs of individuals; involvement in the nurturing of inquisitive minds; involvement in the transfer of ideas from the campus to the marketplace and beyond. The creation of new knowledge that will benefit future technological society is at the heart of our mission. In order to achieve a position of educational leadership, our institution fosters an atmosphere of intellectual excitement among faculty, staff and the greater student community.

Quality Policy

An effective source of technical manpower for the nation and to contribute to the growth of the nation by constantly upgrading the quality of technical education by meeting the challenging needs of the society and effectively coordinating the activities of the staff, students and the industry while keeping the ethical and moral standards required.

MALLA REDDY INSTITUTE OF TECHNOLOGY & SCIENCE
(SPONSORED BY MALLA REDDY EDUCATIONAL SOCIETY)
Affiliated to JNTUH & Approved by AICTE, New Delhi
NAAC with 'A' Grade, NBA Accredited, ISO 9001:2015 Certified, Approved by UK Accrediation Centre
Granted Status of 2(f) & 12(b) under UGC Act, 1956, Govt. of India.

DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Chairman Message:

I am happy to inform that the department of Computer Science and Engineering of MRITS is publishing their department newsletter for the academic year 2022-2023. I commend and appreciate the efforts taken by faculty and students to enhance the quality of academics in the college MRITS moreover the credentials and proven strengths to initiate much an indispensable academic activity.

Dr.C.H.Badhra Reddy

Message from Principal Desk

It is my pleasure in congratulating the department of CSE(AI&ML) on the pleasant occasion of releasing the newsletter for the period 2022-2023. It is great to find a considerable number of winners and participants in cocurricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and posses necessary skill sets to bring such laurels to the institution.

Dr.K.Ravindra

Message from HOD:

I welcome all students and faculty who come up with such wonderful initiation. It has been interesting and busy year for the members of the department. The CSE(AI&ML) department has conducted a number of successful events. I invite all the readers to share this newsletter with your friends and contribute more in future.

Dr. N Vinaya Kumari

MISSION AND VISION OF THE DEPARTMENT

Mission

- To impart knowledge through the state-of-the-art concepts and technologies in AI and ML by adapting rigorous Teaching Learning process.
- To encourage students' all-round professional growth, by inculcating moral values and leadership abilities, so as to deal with societal issues.
- To educate the students in fundamental principles of computing and develop the skills needed to solve practical problems using contemporary computer-based technologies
- To provide necessary strengths and develop self-learning ability among the student to Improve innovative Thinking and become entrepreneurs.

Vision

To be in the frontiers of CSE (AI & ML) with academic excellence and research so as to produce technically competent and socially responsible engineers.

Programme Educational Objectives

PEO1: Possess essential professional engineering skills that make them confident to develop high-quality AI solutions for various application domains under realistic constraints.

PEO2: Demonstrate the importance of life-long learning through professional development, computing practices, and specialized certifications.

PEO3: Engage and succeed in their professional careers through team work, ethical behavior, proactive involvement, and effective communication.

Programme Specific Outcomes:

PSO1: Design and development of software applications by using data mining techniques.

PSO2: Enrichment of graduates with global certifications to produce reliable software solutions.

Program Outcomes:

Engineering programmes offered by MRITS demonstrate that their students attain the following outcomes:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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

Staff Achievements

Paper Publications by Faculty:

1. Dr. N Vinaya Kumari has published an article "Internet of Things Based Patient Cradle System With an Android App for Baby Monitoring with Machine Learning" submitted to the journal "Wireless Communications and Mobile Computing, Hindawi, Volume 2022, 1140789, 11 pages, https://doi.org/10.1155/2022/1140789, Published 16 July 2022, SCI.
2. Dr. N Vinaya Kumari has published an article "Internet of Things Based Risk Monitoring in the Field of Occupational Health and Safety" submitted to the journal "Journal of HealthCare Engineering", Article ID :3390856, Submitted on 23.09.2022,SCI.
3. Dr. V Senthil Kumar has published an article "Mosquito Type Identification using Convolution Neural Network" submitted to the journal Proceedings of the Third International Conference on Smart Electronics and Communication (ICOSEC 2022) IEEE Xplore Part Number: CFP22V90-ART; ISBN: 978-1-6654-9764-0.
4. Dr. V Senthil Kumar has published an article "An Innovative Solution for Battery Draining in 5G Devices Using Alternate Routing Model" submitted to the journal Hindawi International Transactions on Electrical Energy Systems Volume 2022, Article ID 8924801, 8 pages https://doi.org/10.1155/2022/8924801.

Book Chapters Publications by Faculty

1. Dr. N Vinaya Kumari has published Book chapter titled "Biomedical Data Analysis and Processing using Explainable Artificial Intelligence and Responsive Artificial Intelligence" in the book Mobile Health: Advances in Research and Applications, Volume II, ISBN:978-1-68507-988-8,2022.
2. Dr. N Vinaya Kumari has published Book chapter titled "Internet of Things Based Risk Monitoring in the Field of Occupational Health and Safety" submitted to the journal "Journal of HealthCare Engineering", Article ID :3390856, Submitted on 23.09.2022, SCI.
3. Dr. V Senthil Kumar has published Book titled" Fundamentals of Python Programming" in the book Scientific international publishing House, ISBN:978-935625-506-7,2022.
4. Dr. Gowtham Mamidisetti has published Book titled" Secure Routing Protocols For Mobile Ad Hoc Networks" Binding: Paperback, Publisher: Book Rivers, Genre: Children, ISBN: 9789355155269, Edition: 2022, Pages: 120.
5. Dr. Gowtham Mamidisetti has published Book titled" Internet of Things" Publisher : Book Rivers (10 January 2023), Paperback : 184 pages, ISBN-10 : 9355157487, ISBN-13 : 978-9355157485.
6. Dr. Gowtham Mamidisetti has published Book titled" Distributed Systems" Publisher : Book Rivers (2 January 2023),Paperback : 238 pages,ISBN-10 : 9355157436,ISBN-13 : 978-9355157430.

Patent Publications by Faculty

1. Dr. N Vinaya Kumari has published patent "Transformation of Text Into Pictures Using Machine Learning And Artificial Intelligence", Application Number 202241040141, Publication Date (U/S 11a) 22/07/2022.
2. Dr. N Vinaya Kumari has published patent "Discovery of Lung Carcinoma via Plasma Amount through Supervised Machine", Learning Techniques, Application Number 202241029918, and Publication date (U/S 11A): 03/06/2022.
3. Dr. N Vinaya Kumari has published patent "Discovery of Lung Carcinoma via Plasma Amount through Supervised Machine", Learning Techniques,

Application Number 202241029918, and Publication date (U/S 11A): 03/06/2022.

4. Ms. Razia Alangir Banu has published patent "Authenticity and Security for Critical And Important Data Storage Using Blockchain", patent application no./ patent publication no./ patent granted no.: 202241020912, patent filed date: 07/04/2022, patent published/ granted date: 29/04/2022.

5. Ms. Razia Alangir Banu has published patent "Diagnostics and Treatment Help to Patients At Remote Location Using Edge And Fog Computing", patent application no./ patent publication no./ patent granted no.: 202241030796, patent filed date: 30/05/2022.

6. Ms. Razia Alangir Banu has published patent "Generating A Map of Potential Customers and Segregating It for Marketing The Product Using Classification And Regression", patent application no./ patent publication no./ patent granted no.: 202241032691, Patent filed date: 08/06/2022,Patent published/ granted date: 17/06/2022.

7. Ms. Razia Alangir Banu has published patent "Measures to Reduce & Monitor Sound Pollution In Urban Areas By Making Use Of Fog & Edge Computing", patent application no./ patent publication no./ patent granted no.: 20221037558, patent published/ granted date: 08/07/2022.

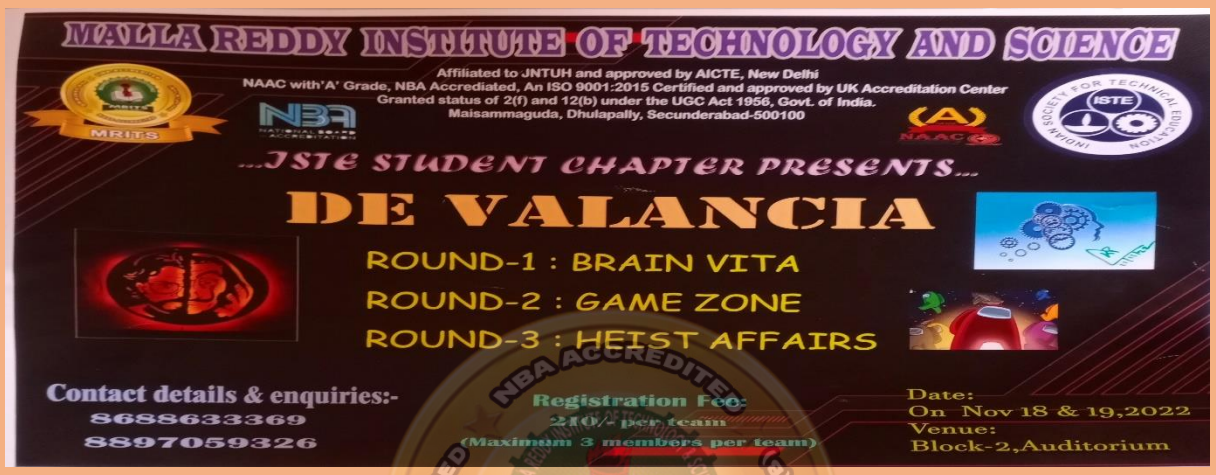
8. Ms. Razia Alangir Banu has published patent "Neural Approach of Pattern Recognition in Machine Learning for Performing Trend Analysis", patent application no./ patent publication no./ patent granted no.: 202241032685, patent filed date: 08/06/2022, patent published/ granted date: 08/07/2022.

9. Ms. Razia Alangir Banu has published patent "Soil Classification and Crop Suggestion Using Machine Learning Methods Based on Soil Series", patent application no./ patent publication no./ patent granted no.: 202241044538, patent filed date: 04/08/2022, patent published/ granted date: 12/08/2022.

ISTE STUDENT CHAPTER CONDUCTED

"DE VALANCIA" (Non-Technical)

EVENT DATE:- 18th & 19th on November 2022.



MRITS
GPS Map Camera
Hyderabad, Telangana, India
Malla Reddy Institute of Technology and Science,
Maisammaguda, Dulapally, Hyderabad, Telangana 500043, India
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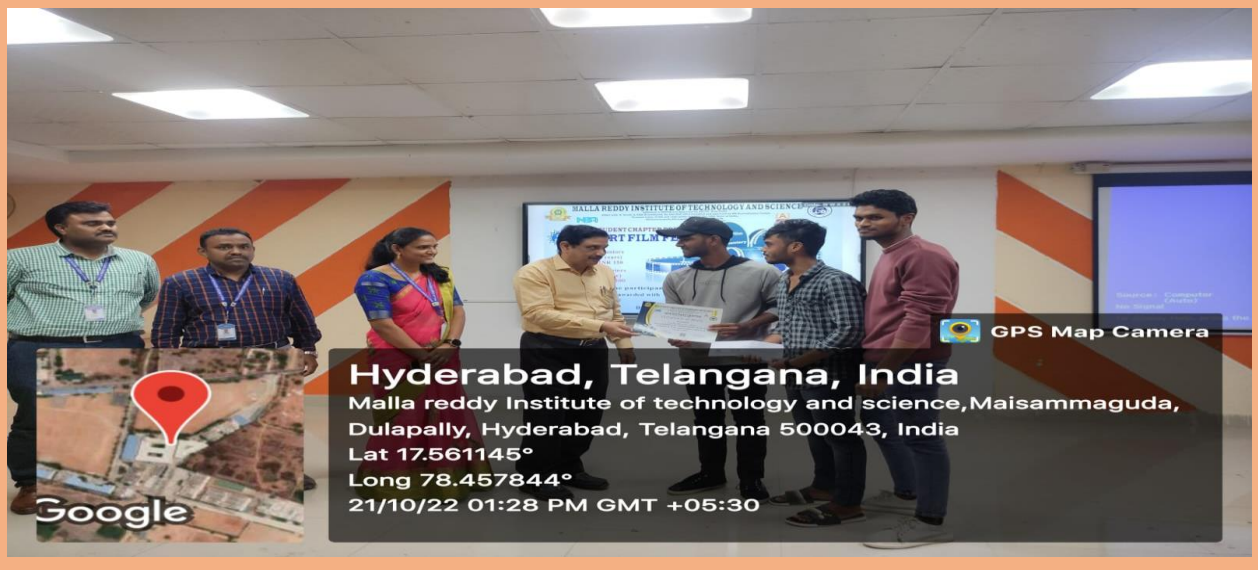
Long 78.45758°
18/11/22 01:44 PM GMT +05:30
Google

NATIONAL SHORT FILM FEST conducted by ISTE, MRITS

NATIONAL SHORT FILM FEST Technical Event for all MRITS students on **21stOctober 2022.**



Technical Event MIND MELD conducted by ISTE

ADVANTAGES AND DISADVANTAGES

ISTE
ACCREDITED

NAAC ACCREDITED
MRITS
403, Devender Colony, Kompally,
Secunderabad, Telangana
500014, India
28 Dec 2022 09:59 am
haze
27.0 °C

NSS Activities

S.NO	A.Y	EVENT	VENUE	DATE	NUMBER OF PARTICPATES
1	2022-2023	RED RIBBON CLUB ACTIVITIES IN JNTUH(RRC ACTIVITIES)	JNTUH	08-04-2022	06
2	2022-2023	EARTH DAY	MRITS	22-04-2022	110
3	2022-2023	ORIENTATION DAY 2022	MRITS	22-04-2022	120
4	2022-2023	INTERNATIONAL YOGA DAY	MRITS	21-06-2022	80
5	2022-2023	ISKCON	KUKATPALLY	01-07-2022	54
6	2022-2023	ORIENTATION DAY 2022	MRITS	30-07-2022	110
7	2022-2023	SAVE SOIL	MRITS	30-07-2022	110
8	2022-2023	EASSY WRITING	MRITS	11-08-2022	50
9	2022-2023	ELOCUTION COMPETITION	MRITS	12-08-2022	60
10	2022-2023	INDEPENDENCE DAY	MRITS	15-08-2022	40
11	2022-2023	ISKCON ELOCUTION COMPETITION	MRITS	19-09-2022	128
12	2022-2023	NSS ANNUAL DAY	MRITS	24-09-2022	147
13	2022-2023	GROCERIES DONATION TO OLD AGE HOME	BHADHURPALLY	24-09-2022	22
14	2022-2023	VISITING ORPHANAGE	ALWAL	29-09-2022	5
15	2022-2023	SWACHH BHARATH	MRITS	19-10-2022	61
16	2022-2023	DENTAL CAMP	MRITS	20-10-2022	427
17	2022-2023	NATIONAL UNITY DAY	MRITS	31-10-2022	50
18	2022-2023	NATIONAL CANCER AWARENESS DAY	MRITS	07-11-2022	250

19	2022-2023	NATIONAL EDUCATION DAY	MRITS	11-11-2022	100
20	2022-2023	HEARING SCREENING CAMP	MRITS	21-11-2022 TO 23-11-2022	350
21	2022-2023	CONSTITUTION DAY	MRITS	26-11-2022	350
22	2022-2023	ISCKON VIJAYOTSAV YATRA	HYDERNAGAR	04-12-2022	10
23	2022-2023	INTERNATIONAL VOLUNTEERS DAY	MRITS	05-12-2022	100
24	2022-2023	INTERNATIONAL HUMAN RIGHTS DAY	MRITS	10-12-2022	350
25	2022-2023	BLOOD DONATION AND BLOOD GROUP PROFILING CAMP	MRITS	20-12-2022 TO 21-12-2022	400

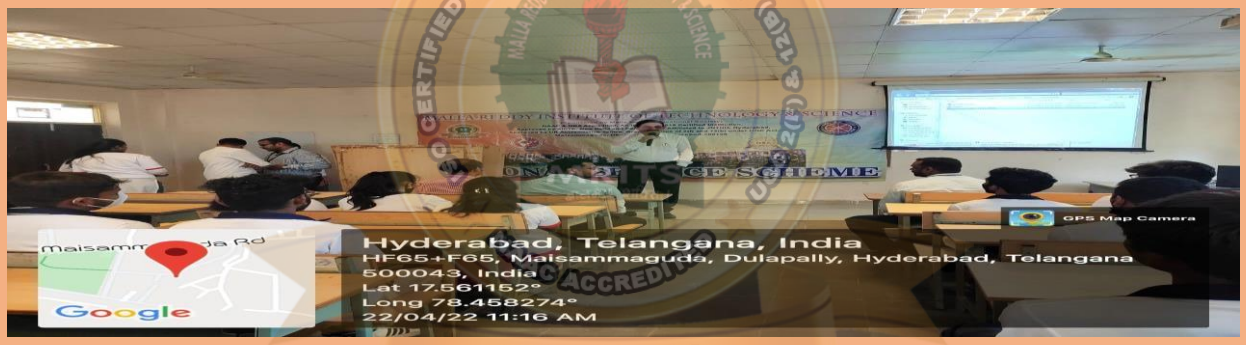
RED RIBBON CLUB

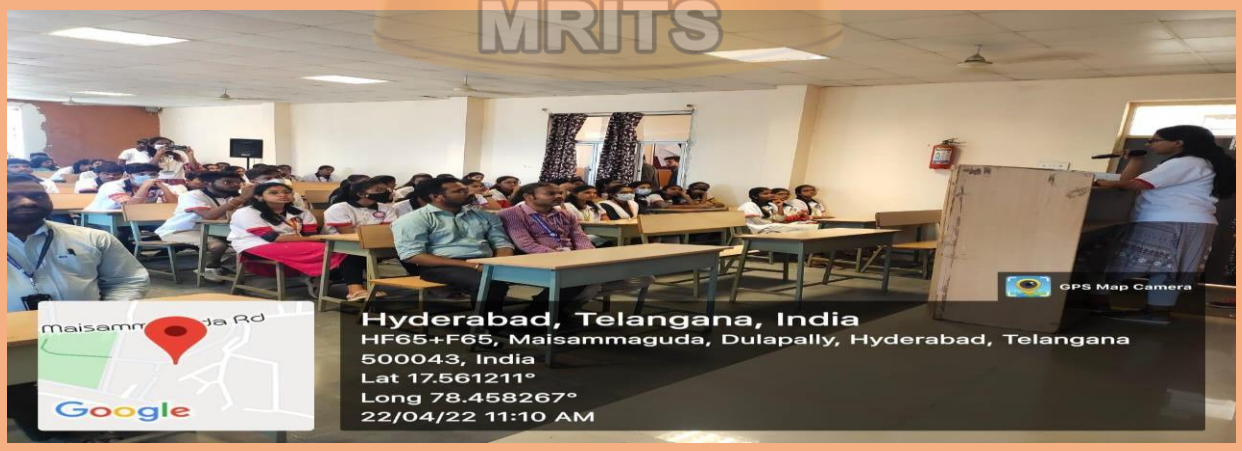
EARTH DAY

CLEANLINESS OF INDIA

CSE(AI&ML) News Letter

ORIENTATION DAY 2022





INTERNATIONAL YOGA DAY

CSE(AI&ML) News Letter

MRITS CONDUCTED AN EVENT **INTERNATIONAL YOGA DAY** IN OUR COLLEGE ON **21-06-2022** HOSTED BY OUR **PD SIR** AND Dr.**VINAYAKUMARI MADAM (AL&ML HOD)** IN THE PRENCENCE OF RESPECTED HEAD OF THE HODS AND PRESENTED THE CERTIFICATES AND PRICES FOR VOLUNTEERS AND BEST PARTICPATION IN YOGA WORK SHOP.

ISKCON-2022

SRI JAGANNATH RATHA YATRA

INTERNATIONAL SOCIETY FOR KRISHNA CONSCIOUSNESS

INDEPENDENCE DAY

GPS Map Camera
Hyderabad, Telangana, भारत
MRCE MBA BLOCK, MALLA REDDY COLLEGE, Maisammaguda,
Bhadurpalle, Hyderabad, Telangana 500043, भारत
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Long 78.457706°
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Google

GPS Map Camera
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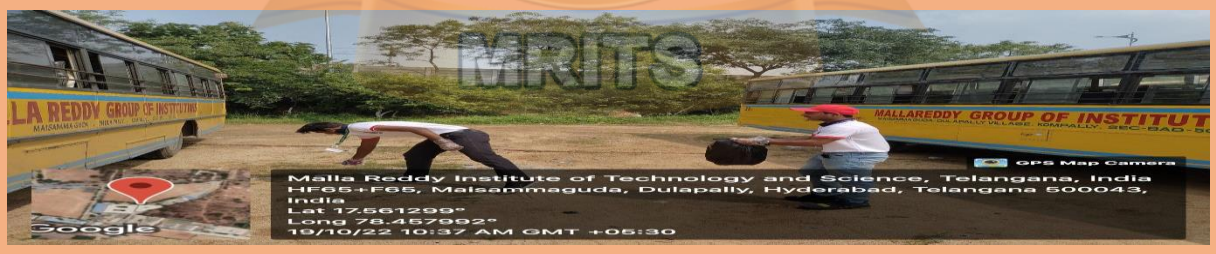
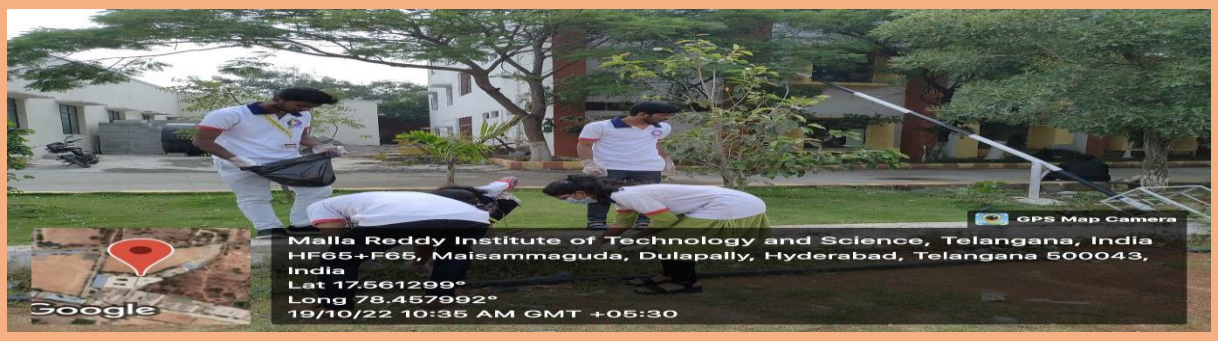
GROCERIES DONATION TO OLD AGE HOME

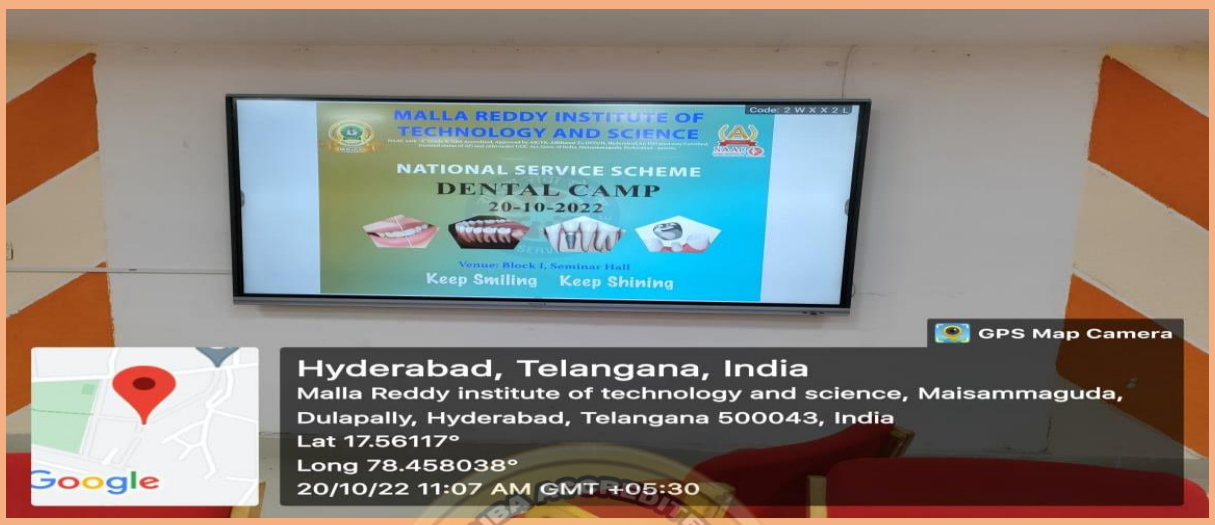
VISITING ORPHANAGE

SWACHH BHARATH





DENTAL CAMP


MALLA REDDY INSTITUTE OF TECHNOLOGY AND SCIENCE
NATIONAL SERVICE SCHEME
DENTAL CAMP
20-10-2022
Keep Smiling Keep Shining
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Hyderabad, Telangana, India
Malla Reddy institute of technology and science, Maisammaguda, Dulapally, Hyderabad, Telangana 500043, India
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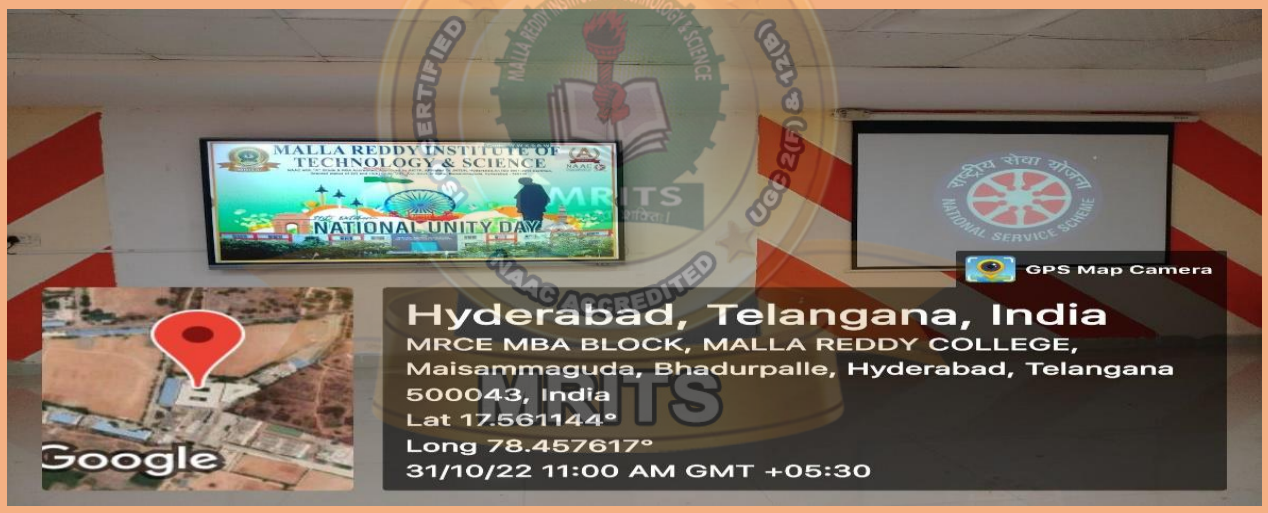
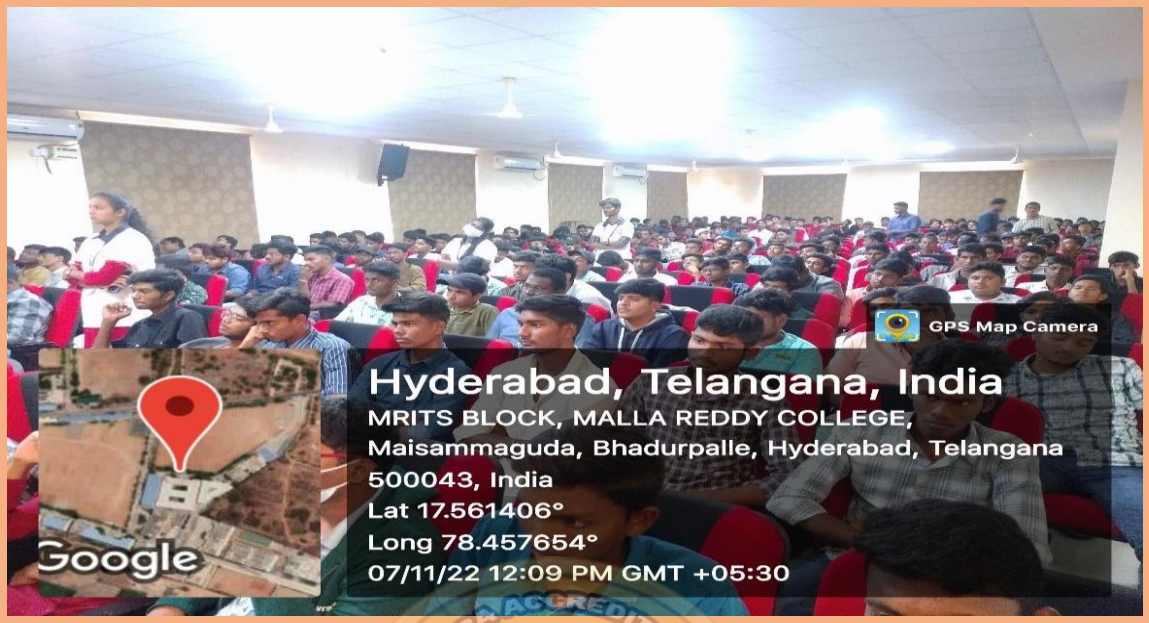
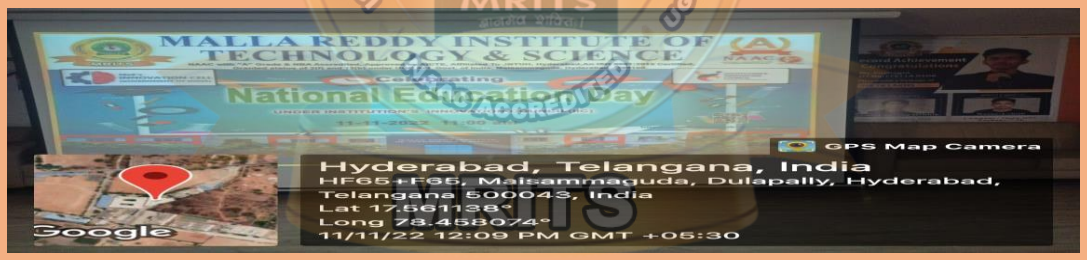
NATIONAL UNITY DAY



NATIONAL CANCER AWARENESS DAY



NATIONAL EDUCATION DAY



HEARING SCREENING CAMP

INTERNATIONAL HUMAN RIGHTS DAY

BLOOD DONATION AND BLOOD GROUP PROFILING CAMP-2022

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