



RGMCET

AUTONOMOUS

NH-40, NANDYAL-518 502, NANDYAL-DIST, ANDHRA PRADESH, INDIA



ABYUDHAYA

MAGAZINE OF CIVIL ENGINEERING 2024-2025



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About Us:

Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal was inaugurated on 09.03.1995 by Late Sri P.V.Narasimha Rao, the former Prime Minister of India and Sri N.Chandrababu Naidu, the former Chief Minister of Andhra Pradesh. This institute is one of the top engineering colleges of Andhra Pradesh.

The institute has got permanent affiliation from JNTUA Anantapuramu. It has been conferred Autonomous status by UGC in 2010 and has upgraded the curriculum and regulations as per the needs of the industry and society from time to time. All the UG eligible Courses in the institute are accredited four times by NBA and recently in Tier-I category. The institute has also got accredited by NAAC with A+ grade (3.54 out of 4.0 CGPA). The institute has DSIR (Ministry of Science and Technology) recognition for the exemption of excise duty for the research equipment procured. It was selected for the World Bank assisted TEQIP-1 for quality improvement. The institute is ISO 9001-2008 certified.

The Jawahar Knowledge Center of the institute has been awarded as the best JKC center twice by the Government of Andhra Pradesh for highest campus placements. The Institute offers number of Skill Development Programmes and has been sanctioned the Deen Dayal Upadhaya KAUSHAL Kendra under Ministry of HRD. The institute has been conferred with College with Potential for Excellence (CPE) by UGC, New Delhi in 2016.

The institute has been recognized as SIEMENS INC “Technical Skill Development Institute” (TSDI) by Government of Andhra Pradesh in association with APSSDC in 2016, apart from establishing two CM's Skill Centers in 2018. In order to make every student industry ready, pursue higher education and research, there is a constant effort to work in coordination with the alumni – who frequently visits the campus and deliver talks to create awareness about the requirements of the industry and being employable. On a continuous basis this institution is embarking on a journey towards excellence in quality education and research.

(ESTD-1995)

Civil Engineering Department :

The department has established in the year 2008 with an initial intake of 60 in B.Tech Civil Engineering and at present the intake is 120. The PG course, M.Tech in Computer Aided Structural engineering has started in the year 2014 with an intake of 18. The department has been imparting quality education to meet the technological, advancements and industrial requirements. This has been made possible with highly qualified and dedicated faculty, modern laboratories and infrastructure facilities.

The department has Structural, Environmental, Geotechnical, Transportation, Water Resources Engineering, Construction technology and Geo-Informatics divisions. Department has very good infrastructure and institutional facilities such as digital class rooms, state of the art laboratories. Lot of academic activities such as seminars, conferences, work-shops, expert lectures, invited talks, etc., are conducted often apart from intensified research in various domains of Civil Engineering. These academic activities would add up to the reputation and popularity of the department.

The main features of the UG program are case studies and Project works in 7th and 8th semesters, MOOCS in 6th and 8th semesters and an extensive practical training on construction sites during their course work which will be useful for better understanding and strengthen their field knowledge. Original research in Civil Engineering is encouraged and facilitated by research faculty.

The department possesses well qualified and experienced senior professors and teaching faculty who all can lead the students to become knowledgeable and competent engineers in their professional careers. Many faculties are pursuing their research in the department pertaining to their specialization. Any aspirants who wish to study Civil Engineering course in RGM CET can feel proud that the level of education is on par with highly reputed technical institutions in India. The department offers various designs, testing and consultancy services in all the respective divisions using well equipped state of the art laboratories.

RGM CET MANAGEMENT



Dr. M. Santhiramudu Garu
Chairman , RGM CET

Er. M. Siva Ram Garu
Managing Director, RGM CET



Dr. T Jayachandra Prasad
Principal, RGM CET

Dr. D.V. Ashok Kumar
Dean-Admin. & Director Placements,
RGM CET



Dr. G Sreenivasulu
Professor & HOD
Department Of Civil ,RGM CET

DEPARTMENT OF CIVIL FACULTY



Dr. B. Naga Kiran
Associate Professor



Dr. M. Sunandana Reddy
Associate Professor



Dr. C. Rajaram
Associate Professor



Dr. K. Venkateswarlu
Assistant Professor



Dr. K. Naveena
Assistant Professor



Mr. G.N. Sreekanth
Assistant Professor



Mr. T. Raghavendra
Assistant Professor



Mr. V Madhu
Assistant Professor



Mrs. A. Mounika
Assistant Professor



Mr. K. Bharath Kumar
Assistant Professor



Mr. M. Ummar Basha
Assistant Professor



Mr. S. Sudheer Kumar
Assistant Professor

DEPARTMENT OF CIVIL FACULTY



Mr. D.V. Prudhvi Raj
Assistant Professor



Mrs. S Snigdha Malya
Assistant Professor



Ms. T. Shanthala
Assistant Professor



Mr. B. Girinath Naik
Assistant Professor



Mr. V. Giridhar Kumar
Assistant Professor



(ESTD-1995)

FACULTY ACHIEVEMENTS



Excellence awarded to Dr. C.Rajaram as the 1st Runner-up in the category of Outstanding Best Teacher (Civil/Structural) at the Best Engineers Awards 2024. The award is presented by Ramco Supercrete and powered by The Hindu. The certificate is signed by representatives from The Hindu Group and The Ramco Cements Limited, recognizing Dr. Rajaram's contributions to engineering education.

Best Researcher Award 2024 certificate is conferred on Dr.C.Rajaram by STEM Research Society in association with the University Institute of Technology, Himachal Pradesh University, Shimla. The award recognizes his research contributions and is presented at Himachal Pradesh University, Shimla, on November 23, 2024. The certificate is signed by officials from STEM Research Society and Himachal Pradesh University (HPU), Shimla.



Certificate of Completion is awarded to Dr.G.Sreenivasulu from Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, for successfully completing the AICTE-QIP-PG Certificate Programme on Blockchain and Cybersecurity at IIIT Kalyani from July to December 2024.

FACULTY ACHIEVEMENTS



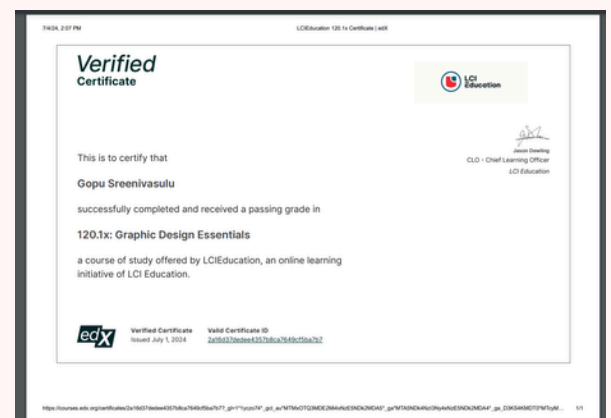
Certificate of Completion is awarded to Mr.T.Raghavendra from Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, for successfully completing the AICTE-QIP-PG Certificate Programme on AIML at IIIT Kalyani from July to December 2024.

Certificate honors Dr. B. Naga Kiran from Rajeev Gandhi Memorial College of Engineering and Technology, India, for outstanding contributions to the Journal of Engineering Research and Reports as a reviewer. It is awarded on February 19, 2025, by Dr. M. B. Mondal, Chief Managing Editor.



Dr.K.Venkateswarlu from the Civil Engineering Department, RGM CET, received his Ph.D. degree during the convocation ceremony at NIT Raipur. The degree was conferred by the Director of NIT Raipur, under the presence of **Honorable President of India, Droupadi Murmu**, as the Chief Guest of the event.

All faculty members of the Department of Civil Engineering have successfully completed various courses on the edX platform, enhancing their knowledge and expertise in diverse subjects. These courses have provided valuable insights into advanced civil engineering concepts, emerging technologies, and innovative practices, strengthening the department's academic and research capabilities. This achievement reflects their commitment to continuous learning and professional development, ensuring they stay updated with global advancements in the field.



FACULTY ACHIEVEMENTS

Mrs. A. Mounika, Mrs. Snigdha Malya, Mr. T. Raghavendra, Mr. D. V. Prudhvi Raj, Dr. G. Sreenivasulu, Mr. Giridhar Kumar, Ms. T. Shanthala, and Mr. B. Girinath Naik attended "National Intellectual Property Awareness Mission (NIPAM)", gaining insights into patents, copyrights, trademarks, and innovation protection. The program emphasized IP in research, product development, and start-ups, covering patent filing, commercialization, and global IP policies. Their knowledge enhances institutional research policies and fosters innovation among faculty and students.



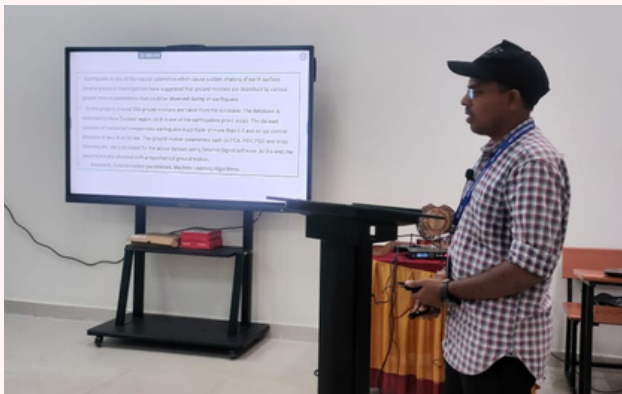
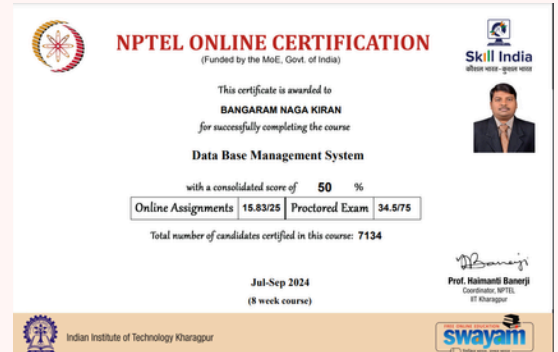
Mr. G. N. Sreekanth, Mr. S. Sudheer Kumar, Mr. D. Venkata Prudhvi Raj, Ms. T. Shanthala, Mr. M. Umbar Basha & Mrs. S. Snigdha Malya attended "Reskilling, Foundation, and Advanced Level" training programs, focusing on modern teaching, digital tools, research, and innovation. Their participation enhances student learning and research capabilities by bridging traditional and modern education approaches.

Dr. C. Rajaram, Ms. T. Shanthala, Mr. T. Raghavendra, Dr. Sunandana Reddy, Mr. S. Sudheer Kumar, Dr. K. Venkateswarlu, Ms. B. Sailaja, Mr. B. Girinath Naik, Dr. B. Naga Kiran, and Mr. G. N. Sreekanth attended "UHV-1 Training" by AICTE, focusing on human values, ethics, sustainability, and professional responsibility. The program promotes value-based education, ethical leadership, and holistic student development, shaping responsible engineers.



FACULTY ACHIEVEMENTS

Dr. B. Naga Kiran, Mr. V. Madhu, Mr. M. Umbar Basha, Mr. T. Raghavendra, and Dr. Sunandana Reddy attended FDPs on Database Management, Machine Learning, Cloud Computing, and Data Science, gaining expertise in AI, data analysis, cloud security, and automation. Their skills enhance data-driven decision-making in civil engineering.



Mr.T.Raghavendra received a Certificate of Appreciation for presenting his paper on forecasting ground motion parameters using machine learning at the 14th Structural Engineering Convention (SEC-2024), organized by NIT Tiruchirappalli from 12th to 14th December 2024.

Mr. D. V. Prudhvi Raj attended "Sustainable Construction Materials & Technologies", focusing on eco-friendly materials, energy-efficient designs, and carbon footprint reduction. His expertise promotes green building practices in civil engineering.



STUDENT ACHIEVEMENTS



From March 11th to 17th, Ashoka Engineering College hosted the E-Cube Carnival, where Mr. Tharun secured the 1st prize in the CAD Cluster competition.

From March 11th to 17th, Ashoka Engineering College hosted the E-Cube Carnival, where Mr. Dhanush secured the 1st prize in the PPT competition.



The National Level Technical Symposium 2K24 was conducted from April 11th to 13th at S.V. University, where Mr. Pranavath won 1st prize in the quiz competition.

The first batch of Civil Engineering alumni gathered for a reunion at RGM College on April 9th, celebrating their journey and reconnecting with old friends



Under the Women Empowerment Cell, our branch students participated in the Rangoli Competition held on January 10th and secured 1st prize.

STUDENT ACHIEVEMENTS



This certificate is awarded to Mr.B.Pulla Reddy , IV B.Tech Civil Engineering student at RGM CET (Autonomous), Nandyal, for securing [Winner,1Prize] in the "Map Making Competition Using GIS" organized by the Geoscience and Remote Sensing Society of IEEE ROMCET Student Branch on August 14, 2024.

This certificate is awarded to Mr.J.Ranganath , IV B.Tech Civil Engineering student at RGM CET (Autonomous), Nandyal, for securing [Winner,2nd Prize] in the "Map Making Competition Using GIS" organized by the Geoscience and Remote Sensing Society of IEEE ROMCET Student Branch on August 14, 2024.



This certificate is awarded to Mr.S.Mohammad Yunus , IV B.Tech Civil Engineering student at RGM CET (Autonomous), Nandyal, for securing [Winner,3rdPrize] in the "Map Making Competition Using GIS" organized by the Geoscience and Remote Sensing Society of IEEE ROMCET Student Branch on August 14, 2024.

The department of civil engineering students Eswar, Bhargav, Sameer Hussain, and P.Manideep successfully organized the Smart India Hackathon on September 5th, 2025.



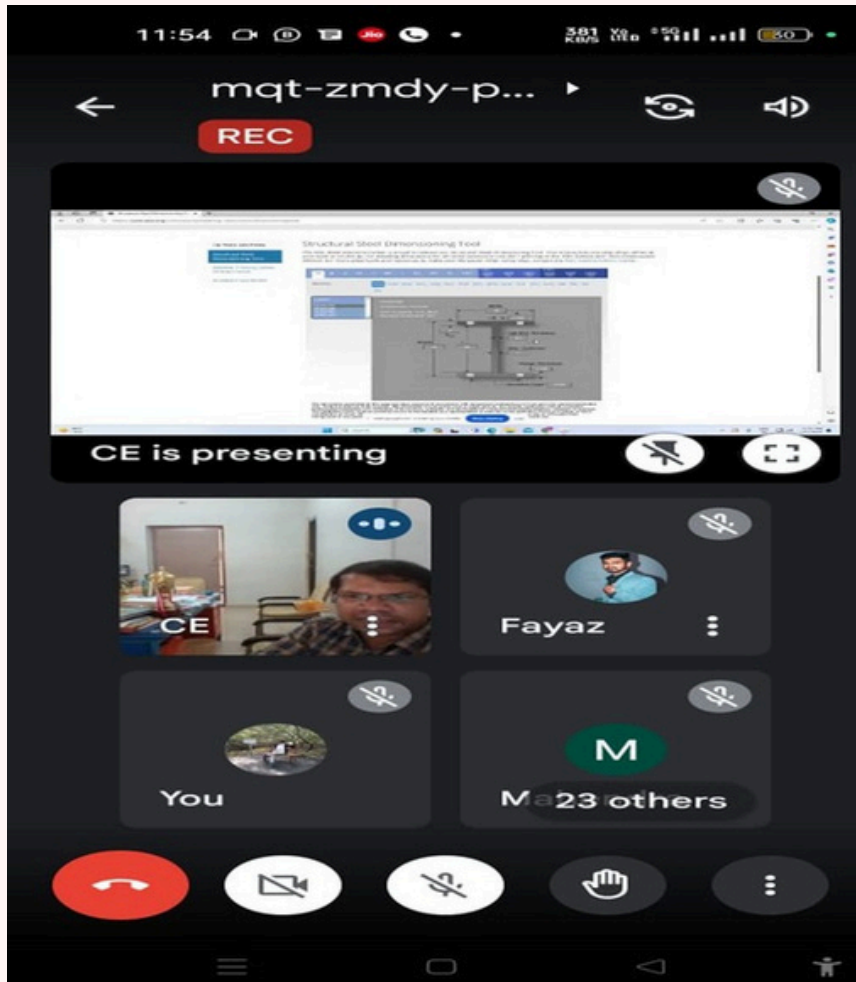
On October 25th and 26th, Pulla Reddy Engineering College conducted the Jignasa festival, where our Civil Department students participated and won prizes.

DEPARTMENTAL EVENTS ^{2K24-2K25}



(ESTD-1995)

American Conventional Steel Detailing Process : 11-Jan-2024



Construction is the process of constructing a building or infrastructure. Construction as an industry comprises six to nine percent of the gross domestic product of developed countries.

Construction industry is the second largest industry in this world, after agriculture. Even it is quite larger than the information technology, telecom or electronics industries. This industry includes construction of residential & commercial buildings, roads & transportation, airport, railway, port setup & expansion of new factory & industry- power plant, cement plant, steel plant, chemical plant, oil & gas plant, on shore & offshore projects etc.

Steel detailing industry is a part of construction industry. Steel detailing industry is responsible for preparation of construction drawings for construction industry. Steel detailing is a specialist area of structural drafting. Steel detailing is the process of translating design/ engineering/ contract drawings to shop & field drawings. This process involves detailing of all steel parts for their interconnectivity & assembly during fabrication & erection. Business Volume of Steel Detailing Industry business is around 2 to 3 percent of construction industry.

***“THE FINEST STEEL
HAS TO GO
THROUGH THE
HOTTEST FIRE”***



Innovation Unleashed: A Journey into Entrepreneurship: 20-Jan-2024



"Innovation Unleashed: A Journey into Entrepreneurship" is a captivating exploration into the dynamic world of entrepreneurship, delving into the intricate processes of innovation and creativity that drive entrepreneurial ventures forward. This journey unfolds as a narrative rich with insights, anecdotes, and practical advice, offering readers a comprehensive understanding of the entrepreneurial mindset and the strategies employed by successful innovators.

The objectives of "Innovation Unleashed: A Journey into Entrepreneurship" can be multifaceted, aiming to fulfill various goals that cater to both the author's intentions and the readers' needs. Here are some potential objectives:

By aligning its objectives with the needs and aspirations of its target audience, "Innovation Unleashed: A Journey into Entrepreneurship" can effectively engage and empower readers to embark on their own entrepreneurial journeys with confidence and purpose.



Construction Building Techniques: 31-Jan-2024



The objective of the program was to educate participants on various aspects of construction building techniques including concrete mixing, compaction, finishing, and understanding building parts

- Overview of the importance of proper construction techniques.
- Introduction to safety measures and precautions.
- Explanation of the components of concrete mix: cement, aggregates, water, and additives.
- Demonstration of proper mixing ratios for different types of concrete.
- Hands-on session for participants to understand the process of mixing concrete.
- Importance of proper compaction for durable structures.
- Discussion on different compaction methods: hand compaction, mechanical compaction, etc.
- Practical demonstration of compaction techniques using appropriate equipment.
- Explanation of finishing techniques for concrete surfaces.
- Demonstration of tools used for finishing such as trowels, screeds, and floats.
- Hands-on practice session for participants to learn basic finishing techniques.
- Overview of the various parts of a building including foundation, walls, floors, and roof.
- Explanation of the role of each building part in the overall structure. Visual aids and diagrams used to enhance understanding.

The program was successful in providing participants with a comprehensive understanding of construction building techniques. Through a combination of theoretical explanations, practical demonstrations, and hands-on sessions, participants gained valuable knowledge and skills that will enable them to contribute effectively to construction projects in the future.



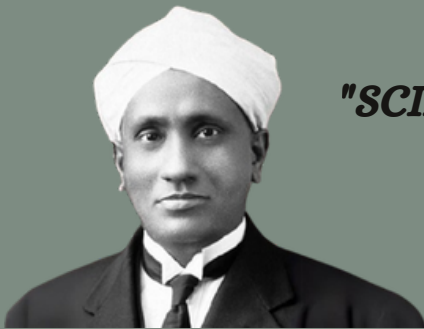
National Science Day : 28-Feb-2024



National Science Day is celebrated every year in India on February 28th to commemorate the discovery of the Raman Effect by Sir C.V. Raman. It is an occasion to recognize the contributions of scientists and engineers towards the advancement of knowledge and technology. In the Civil Engineering department, this day holds particular significance as we acknowledge the role of science in shaping our built environment.



(ESTD-1995)



***"SCIENCE IS EVERYWHERE, NO MATTER
IF YOU BELIEVE IN IT OR NOT"***

Neighborhood Clean-Up Initiative : 23-March-2024



Our Neighborhood Clean-Up Initiative is all about neighbors coming together to make our community cleaner and greener. We'll be picking up litter, beautifying public spaces, and promoting sustainability. Join us for a day of making a positive impact and fostering a stronger sense of community pride!



“ BE A PART OF SOLUTION , NOT THE PART OF POLLUTION “

“Participating in the Neighborhood Clean-Up Initiative offers a chance to learn about environmental issues, teamwork, and problem-solving. Through hands-on activities, like picking up litter and recycling, participants develop skills in leadership, community engagement, and environmental conservation. This initiative fosters a sense of responsibility towards our neighborhood and the environment, while also strengthening bonds within the community.”



Cultivating Creativity Empowering Entrepreneurs and Startups through Innovation : 27-March-2024



“THE BEST WAY TO PREDICT THE FUTURE IS TO CREATE IT”

Cultivating Creativity: Empowering Entrepreneurs and Startups through Innovation" is a transformative session aimed at inspiring individuals to embrace creativity as a cornerstone of entrepreneurial success. Through engaging discussions and practical exercises, participants explore the pivotal role of innovation in driving business growth and sustainability. They learn to harness their creative potential to identify market opportunities, overcome challenges, and develop innovative solutions. By fostering a culture of innovation, this session equips entrepreneurs and startups with the mindset and tools needed to thrive in today's dynamic business landscape, empowering them to turn their ideas into impactful ventures that shape the future.

The objective of "Cultivating Creativity: Empowering Entrepreneurs and Startups through Innovation" is to inspire and equip participants with the mindset, skills, and strategies necessary to harness creativity as a driving force for entrepreneurial success. Through interactive sessions and practical exercises, this program aims to foster a culture of innovation, empowering entrepreneurs and startups to identify opportunities, overcome challenges, and develop groundbreaking solutions that propel their ventures forward in today's dynamic business landscape.



TRACE-2K24 (RIPPLE) : 03rd & 04th April 2024



The technical symposium (TRACE-2K24), which is organized by Department of Civil Engineering, held during 03 - 04 April 2024, was a resounding success, bringing together students, professionals, and experts from various locations in the field of Civil Engineering & Technology. The event featured a diverse range of activities, including:



- Workshop on 'PRIMAVERA': The workshop on Primavera was a resounding success, providing participants with a comprehensive understanding of this powerful project management tool.
- PowerPoint Presentations: Students and professionals presented their research papers and projects.
- Poster Exhibition: Participants displayed their posters, illustrating their research, designs, and innovations.
- CAD Quest: A computer-aided design competition where participants showcased their skills in creating innovative designs
- AICTE-Parakh: Technical Quiz competition organized using AICTE Parakh Portal. The technical quiz was a comprehensive assessment of participants' knowledge and skills in applying knowledge to real-world engineering projects.
- Model Making: Innovative models and prototypes were showcased in the event.
- Mapathon: A mapping competition where participants created detailed maps using geospatial tools (QGIS).
- Layout Marking: A competition where participants demonstrated their skills in creating accurate layouts and markings.

**"TECHNOLOGY IS
BEST WHEN IT
BRINGS PEOPLE
TOGETHER"**



Earth Day - Sustainable Innovative Solutions against Plastic Pollution: 22-Apr-2024



World Earth Day aims to achieve several key objectives, including raising awareness about environmental issues, promoting sustainable practices, and inspiring action to protect the planet. It serves as a platform for individuals, communities, and organizations to come together and advocate for environmental conservation, biodiversity preservation, and climate change mitigation. Through educational initiatives, community events, and grassroots efforts, World Earth Day seeks to empower people to make positive changes in their daily lives and contribute to the collective effort of safeguarding the Earth for current and future generations.

World Earth Day, celebrated annually on April 22nd, is a global initiative aimed at raising awareness about environmental issues and promoting sustainability. It serves as a reminder of the importance of protecting our planet and preserving its natural resources for future generations. On this day, people around the world come together to participate in various activities such as tree planting, clean-up campaigns, and educational events to advocate for environmental conservation. It's a time for individuals, communities, and organizations to unite in their efforts to combat climate change, biodiversity loss, and other ecological challenges, ultimately striving towards a healthier and more sustainable world for all.



RECENT ADVANCES IN CIVIL ENGINEERING : 29th & 30th April-2024



The National Conference on Recent Advances in Civil Engineering (RACE-2K24) was a resounding success, offering valuable insights into the latest advancements and future directions in the field. The contributions of guest of honor Prof. A. Murali Krishna and the diverse range of topics covered underscored the conference's role in advancing civil engineering practices and fostering collaboration among professionals.

The conference was graced by Prof. A. Murali Krishna, a renowned figure in civil engineering, who delivered an inspiring keynote address. Prof. A. Murali Krishna's talk focused on "Geosynthetic Materials for Sustainable Civil Engineering Applications" emphasizes the integration of advanced technologies and sustainable practices by geosynthetic materials to improve the performance of civil engineering projects. These materials include geotextiles, geomembranes, geogrids, and geonets.



HOW TO SET & ACHIEVING YOUR GOALS

Lecture by Dr. C. Madhu Sudana Rao on 20-July-2024

On 11th September 2024, the Department of Civil Engineering organized a one-day guest lecture on the topic, "How to Set Your Life Goals and How to Solve Problems in Achieving Your Goals." The lecture was delivered by Dr. C. Madhu Sudana Rao, a renowned ENT Surgeon from Madhumani Nursing Home, Nandyal. The session aimed at guiding students not only in their academic journeys but also in their personal and professional development by helping them set life goals and overcome challenges.



GOALS!

**“A goal without a plan
is just a wish”**

- Provide students with practical techniques for setting clear and achievable life goals.
- Equip them with problem-solving strategies for addressing obstacles that arise on the path toward their goals.
- Encourage personal growth and resilience by sharing insights from a successful professional's life experience.
- The lecture was followed by an interactive Q&A session, where students asked Dr. Rao about their own career and life challenges. He provided tailored advice on dealing with exam stress, choosing the right career path, and staying focused amidst distractions.



On 29th July 2024, the Department of Civil Engineering organized an insightful awareness program on the properties of soil in geotechnical engineering through video lectures. This event aimed to enhance the understanding of fundamental and advanced soil mechanics among students and professionals.



1. Dr. B. Naga Kiran delivered detailed insights into soil testing methodologies and the significance of accurate soil analysis for safe and efficient geotechnical designs.
2. Mr. T. Raghavendra emphasized practical applications and challenges faced in fieldwork, ensuring that students understood the importance of applying theoretical knowledge to real-world projects.
3. Mrs. S. Snigdha Malya highlighted recent advancements in soil behavior studies, focusing on environmental impacts and sustainability in geotechnical engineering.



Engineers Day is celebrated annually on 15th September in India to honor the contributions of engineers to society and to commemorate the birth anniversary of Sir Mokshagundam Visvesvaraya, one of India's greatest engineers. Sir Visvesvaraya was known for his pioneering work in irrigation systems, flood control, and his role in shaping India's infrastructure.



On 15th September 2024, the Department of Civil Engineering celebrated Engineers Day by organizing a series of student-oriented technical events. The events—Easy Writing, Poster Presentation, and Elocution—were designed to engage students in activities that promote technical knowledge, creativity, and effective communication. The aim was to foster holistic development among students and inspire them to achieve excellence in civil engineering.



**"The engineer has been,
and is, a maker of history"**

The Engineers Day celebration was a successful and enriching experience for all involved. The technical events provided students with an excellent opportunity to engage in creative and intellectual challenges while showcasing their talents. The positive feedback from both faculty and students suggests that these events had a lasting impact on the participants, helping them gain confidence and knowledge that will serve them well in their future careers as civil engineers.

ONE-DAY WORKSHOP

on the Standard Penetration Test (SPT) on 20-Sep-2024



On Friday, 20th September 2024, the Department of Civil Engineering organized a one-day workshop on the Standard Penetration Test (SPT). The workshop was conducted by Mr. C. Krishnama Raju, Associate Professor in the Department of Civil Engineering. The event was organized in collaboration with the IE(I) and IST Students Chapter, aimed at providing students with practical knowledge and hands-on experience regarding SPT, a critical geotechnical engineering test used to determine soil properties for construction projects.

The one-day workshop on Standard Penetration Test (SPT) provided students with a comprehensive understanding of this critical geotechnical test. The collaboration between the Department of Civil Engineering, IE(I), and IST Students Chapter successfully bridged the gap between classroom learning and field application. The event was a great success, contributing to the students' knowledge of soil testing techniques essential for foundation design and other civil engineering projects.



"Healthy soil, healthy life—
everything grows from the
ground up"

RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
NANDYAL-518501, ANDHRA PRADESH, INDIA



Non Teaching Faculty Training on GPS



Mr.C.Krishnama Raju
Associate Professor, Civil Engineering

Date: 30-10-2024 venue: Civil Gallery Time: 10.00Am

Organized by Department of Civil Engineering- RGM CET




The Non-Teaching Faculty Training on GPS at Rajeev Gandhi Memorial College of Engineering & Technology (RGM CET), Nandyal, aims to enhance the technical skills of faculty members in Global Positioning System (GPS) technology. Conducted by Mr. C. Krishnama Raju, Associate Professor of Civil Engineering, this session will provide insights into the principles, applications, and advancements in GPS, crucial for modern surveying and mapping.

Scheduled for October 30, 2024, at 10:00 AM in the Civil Gallery, this training is organized by the Department of Civil Engineering, RGM CET, and is supported by prestigious affiliations such as MHRD's Innovation Cell, ISTE, NAAC, NBA, NIRF, and G20 India.

This initiative underscores the institution's commitment to continuous learning and professional development, ensuring faculty stay updated with the latest industry trends and technological advancements.



"Precision in engineering begins with knowledge—mastering GPS is a step toward building a smarter future"



WORKSHOP ON EXPLORING CAREER PATHS IN CIVIL ENGINEERING

RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY
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Exploring Career Paths in Civil Engineering

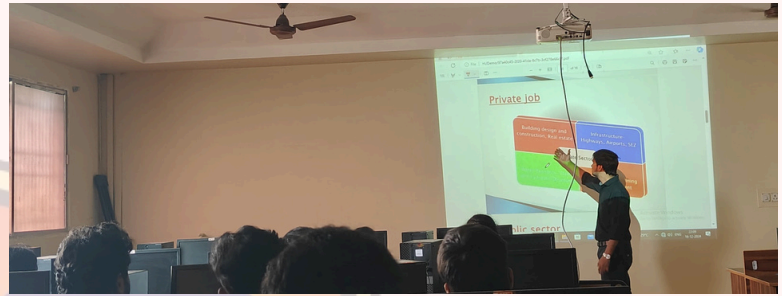
Mr.V.Madhu
Asst.Professor
Department of Civil Engineering



Date:- 17-12-2024
Time:- 11.00AM
Venue:- CB 2020

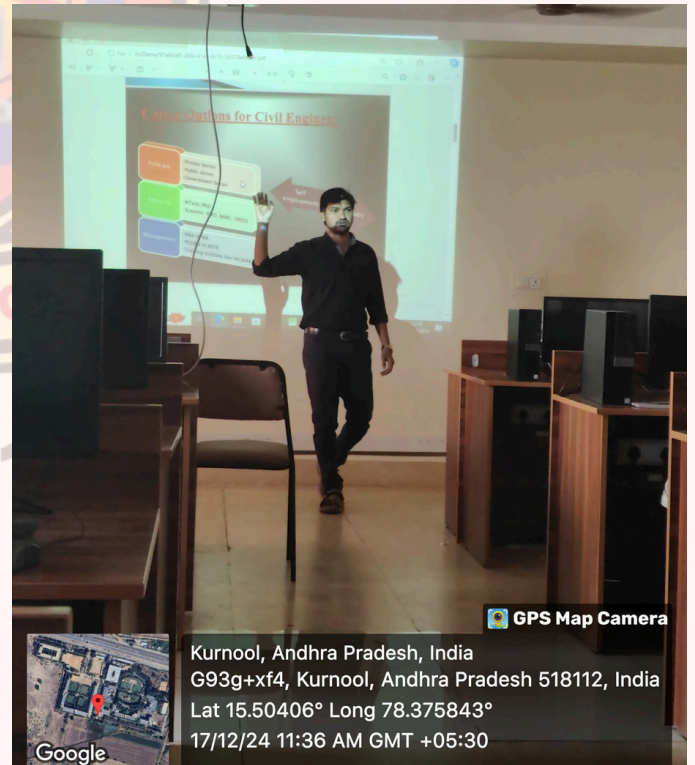
Organized by Department of Civil Engineering

A seminar on "Exploring Career Paths in Civil Engineering" at Rajeev Gandhi Memorial College of Engineering & Technology (RGM CET), Nandyal, Andhra Pradesh. The session will be conducted by Mr. V. Madhu, Assistant Professor, Department of Civil Engineering, on December 17, 2024, at 11:00 AM in CB 2020.



Organized by the Department of Civil Engineering, this seminar aims to guide students on various career opportunities in civil engineering, industry trends, and future prospects in the field. The event is supported by esteemed affiliations, including ISTE and the Institution's Innovation Council.

This session will help aspiring civil engineers make informed decisions about their professional journey.



INDUSTRY REQUIREMENT SKILLS TO GROW AS SUCCESSFUL CIVIL ENGINEER ACROSS INDIA.(DAY-1) 10-FEB-2025

The civil engineering industry in India is evolving rapidly, with new technologies, sustainable practices, and modern infrastructure demands shaping the job market. To secure and excel in private-sector jobs, aspiring civil engineers must develop specific technical skills, soft skills, and an understanding of industry expectations.



During the event, our esteemed guest delivered an insightful introduction on Advanced Surveying Technologies, highlighting their critical role in modern civil engineering. The session focused on the latest innovations, tools, and methodologies that are transforming the surveying industry and improving efficiency, accuracy, and sustainability in infrastructure projects.

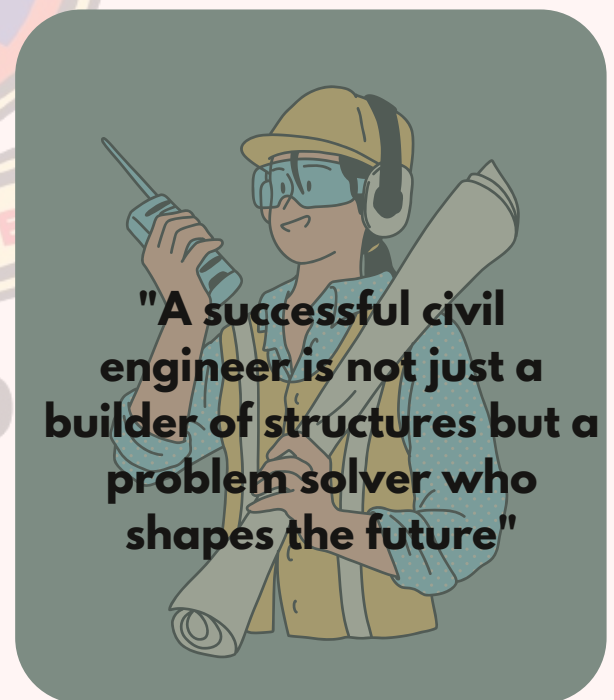
Key Takeaways from the Guest's Speech:

- ◆ Mastering Total Station and LiDAR is essential for civil engineers to stay competitive in the job market.
- ◆ Companies are actively seeking professionals skilled in modern surveying techniques.
- ◆ Hands-on experience and certifications in these technologies can boost career opportunities in the private sector.

INDUSTRY REQUIREMENT SKILLS TO GROW AS SUCCESSFUL CIVIL ENGINEER ACROSS INDIA.(DAY-2) 11-FEB-2025



As part of the session on Advanced Surveying Technologies, the esteemed guest conducted an examination to assess participants' understanding of Total Station, LiDAR, and other modern surveying techniques. This exam aimed to reinforce key concepts and evaluate practical knowledge, ensuring that attendees grasp the essential skills required in the private sector. The exam was a great way to test skills, reinforce learning, and highlight industry expectations for civil engineers.



To honor the esteemed guest for their valuable contribution to the event, a felicitation ceremony was conducted as a token of appreciation. The guest's insightful session and their efforts in engaging participants through an interactive exam were highly acknowledged.

FDP ON SEISMIC ZONATION MAP OF INDIA : 14-FEB-2025

BY PROF. S. T. G. RAGHUKANTH

Seismic zonation is a critical aspect of earthquake hazard assessment, providing a scientific basis for designing earthquake-resistant structures and planning urban development. India, being a seismically active region, has been classified into four seismic zones (Zone II, III, IV, and V) based on the intensity and frequency of seismic activity. These zones help engineers, policymakers, and researchers in mitigating earthquake risks and improving disaster preparedness. The seismic zonation map of India is developed based on historical earthquake data, geological studies, and seismotectonic analysis. Professor S.T.G. Ragukanth's session on seismic zonation provided faculty members and students with an in-depth understanding of these classifications, their implications, and strategies for enhancing structural resilience in earthquake-prone areas.



During the FDP, a dedicated session was held to address faculty members' queries and concerns about pursuing a PhD. Professor S.T.G. Ragukanth provided valuable insights on the following aspects:

- The importance of a Ph.D in academic and research careers
- Choosing the right research topic and supervisor.
- Understanding the PhD admission process and eligibility criteria.
- Navigating coursework, research methodologies, and thesis writing.
- Strategies for publishing research papers in reputed journals.
- Balancing PhD studies with teaching and administrative responsibilities



"Understanding seismic zones today builds a safer and more resilient India tomorrow."



PUBLICATIONS OF LAST TWO AY 2023-2024 & 2024-2025

- Sukheet Arora, Harish Kumar Patel, G.Sreenivasulu, Bimlesh Kumar, 2023, “Turbulent Characteristics at Interface of Partly Vegetated Alluvial Channel”, ‘International Journal of Civil Engineering’, [DOI: <https://doi.org/10.1007/s40999-023-00890-w>], Published: 30th August - 2023. (SCI-E).
- Faisal Mehraj Wani, Jayaprakash Vemuri, Chenna Rajaram, and K. S. K. Karthik Reddy, 2023 “Investigating the efficiency of machine learning algorithms in classifying pulse-like ground motions”, ‘Journal of Seismology’, [DOI: <https://doi.org/10.1007/s10950-023-10168-2>], Published: 24th August - 2023. (SCI-E).
- Chenna Rajaram, Neelima Patnala, Jaya Prakash Vemuri and Ramancharla Pradeep Kumar, 2023 “Insights on the June 21, 2022, Khost earthquake, Afghanistan”, ‘Sadhana Journal’, 21 July 2023, Indian Academy of Sciences [DOI: <https://doi.org/10.1007/s12046-023-02215-y>] (SCI-E).
- Faisal Mehraj Wani, Jayaprakash Vemuri, Chenna Rajaram, 2023 “Influence of near-fault ground motion characteristics and the relative geographical positioning of sites on the seismic response of RC structures”, ‘International Journal of Structural Integrity’, ‘Emerald Publishing Limited’, [DOI: <https://doi.org/10.1108/IJSI-03-2023-0025>]. Published: 17th July - 2023. (E-SCI).
- Ankireddypalli Ganga Chandra Sekhar Reddy, Thati Sucharitha, Yeragolla Leelavathi, Boya Sai Sandeep, Mallepogu Sai Charan, Chamorthy Krishnama Raju, “Compressive Strength of Different Grades of SCC Mix Using Portland Slag Cement (70%) and GGBS (30%) and replacing 20% fine aggregate with copper slag ”;International Research Journal of Engineering and Technology (IRJET)’, Volume: 10, Issue: 07, July 2023, pp: 150-155. (Others).
- Faisal Mehraj Wani, Jayaprakash Vemuri, Rajaram Chenna, 2023 “Prediction of Storey drift for reinforced concrete structures subjected to pulse like ground motions using machine learning classification models”, ‘International Journal of Structural Integrity’, ‘Emerald Publishing Limited’, [DOI: <https://doi.org/10.1108/IJSI-06-2023-0054>]. Published: 31st August - 2023. (E-SCI).
- Dr. Santhosh K Patil, Dr.B.Nagakiran, K.Porulselvi, Devendra Dohare, Dr.Dhirendra Kumar Chaudhary, B.S.Veena, 2023 “Compressive Review on 3D Concrete printing technology in the modern construction industry”, ‘Material Science and Technology’, Vol. 22 No.11. [DOI: <https://doi.org/10.10543/f0299.2023.41799>]. Published: 31st August - 2023. (Scopus).
- Umar Basha, Manish Pandey, M.ASCE, Deeksha Nayak, Satyavati Shukla, Anoop Kumar Shukla, 2024 “Spatial-Temporal Assessment of Annual Water Yield and Impact of Land Use Changes on Upper Ganga Basin, India, Using InVEST Model”, ‘Journal of Hazardous, Toxic and Radioactive Waste’, ‘American Society of Civil Engineers (ASCE)’, [DOI: <https://doi.org/10.1061/JHTRBPHZENG-1245>]. Volume 28, Issue 2, Published: 4th January - 2024. (SCI).
- Faisal Mehraj Wani, Jayaprakash Vemuri, Chenna Rajaram, 2023 “Strong ground motion characteristics observed in the February 6, 2023 MW 7.7 Turkiye earthquake”, ‘Earthquake Science’, [DOI: <https://doi.org/>]. Published: 17th July - 2023. (E-SCI).
- 10.Dr. K Ramadevi, Sonal Banchhor, P Sudheer Kumar, Riyaz Syed, B Naga Kiran, Amruta Jagadish Killol, 2024 “Evaluation of Compressive Strength of Concrete using Ndt and Artificial Intelligence Methods”, ‘Journal of Advanced Zoology’, Vol. 45 Issue 2 Year 2024 Page No. 235-241. [DOI: <https://doi.org/10.10543/f0299.2023.41799>]. Published: February - 2024. (Scopus).

PUBLICATIONS OF LAST TWO AY 2023-2024 & 2024-2025

- Neeraja Konkula, Faisal Meharaj Wani, Chereddy Navyatha, Jayaprakash Vemuri, and Chenna Rajaram., 2024, "Evaluation of Constant Ductility Displacement Response Spectra for Near-Fault Ground Motions of the 1999 Chi-Chi Earthquake", Current Science, Vol.126, No.7, pp.1-11. Indian Academy of Sciences . DOI: 10.18520/cs/v126/i7/837-847. Published: 10 April- 2024 (SCIE)-Q2 IF:1.17.
- Faisal Mehraj Wani, Jayaprakash Vemuri, K. S. K. Karthik Reddy & Chenna Rajaram, 2024 "Forecasting duration characteristics of near fault pulse-like ground motions using machine learning algorithms", 'Stochastic Environmental Research and Risk Assessment'. [DOI: <https://doi.org/10.1007/s00477-024-02729-9>]. (SCIE).
- Chava Venkatesh, V. Mallikarjuna, G. Mallikarjuna Rao, Santosh Kalyanrao Patil, B. Naga kiran, M. K. Yashwanth, C. Venkata Siva Rama Prasad & G. Sree Lakshmi Devi, 2024 "Synergistic effects of graphene oxide and limestone calcined clay cement on mechanical properties and durability of concrete", 'Journal of Building Pathology and Rehabilitation', Volume 9, Article number 116. [DOI: <https://doi.org/10.1007/s41024-024-00470-y>]. Published: 3rd July - 2024. (Scopus).
- Mamilla Rathaiah, Rallapalli Ravanamma, Nirlakalla Ravi, Kummara Venkata Krishnaiah, Kagola Upendra Kumar, Nallabala Nanda Kumar Reddy, Bangaram Naga Kiran, Chinnappa, 2024 "Optical, Vibrational, and photoluminescence properties of holmium-doped boro-bismuth-germanate glasses", 'LUMINESCENCE - The Journal of Biological and Chemical Luminescence', Volume 39, Issue 7. [DOI:<https://doi.org/10.1002/bio.4822>]. Published: 17th July - 2024. (SCI-E).
- Siddam Reddy Vineetha, Chenna Rajaram, 2024 " Assessment of seismic potential impacts of an Mw 8.4 hypothetical earthquake in central Nepal province", 'Natural Hazards Research', Volume xxx, Issue xxx. [DOI: <https://doi.org/10.1016/j.nhres.2024.10.006>]. Published: 23rd October - 2024. (Scopus).
- K. Ramu, Gopu Sreenivasulu, Rinku Sharma Dixit, Shailee Lohmor Choudhary, Katakam Venkateswara Rao , Sanjay Kumar Suman, Mohammed shuaib, A. Rajaram, 2025 "Smart solar power Conversion: Leveraging Deep learning MPPT and hybrid cascaded h-bridge multilevel inverters for optimal efficiency", 'Biomedical Signal Processing and Control', Volume 105, July 2025, 107582. Available online 5 February 2025. [DOI: 10.1016/j.bspc.2025.107582] (SCI-E).

BOOK CHAPTERS 2023-2024 & 2024-2025

- V. Sai Neeraja, Sruthi. S, Rajendra Kumar. P, Prudhvi Raj. D. V, (2024) “Studies On The Properties Of Pervious Concrete” Book Name: Futuristic Trends in Construction Materials & Civil Engineering-Volume 3 Book 3. Area/Stream: Civil Engineering / Structural Engineering / Structural Dynamics, Published in: IIP Series.Volume:3, Month:May,Year:2024.Page No.54-62. e-ISBN:978-93-5747-6867. DOI : 10.58532/V3BICE3P3CH2.
- Dr Bijendra Kumar, Dr Gopu Sreenivasulu, Vidya B R, Dr Mahendra S Korade, 2024 “Water Resources Engineering Hydrologic Analysis and Designs”, ' INDO-CONTINENTAL ACADEMIC PUBLISHERS', Book Size : B5, ISBN : 978-81-978376-8-5, e-ISBN : 978-81-978376-1-6, [DOI : 10.5281/zenodo.13626278].
- V. Sai Neeraja, Sruthi. S, Rajendra Kumar. P, Prudhvi Raj. D. V, "Studies On The Properties Of Pervious Concrete ", 'Futuristic Trends in Construction Materials & Civil Engineering', Volume 3 Book 3,IIP Series, Volume 3, May, 2024, Page no.54-62, e-ISBN: 978-93-5747-686-7 , [DOI :<https://www.doi.org/10.58532/V3BICE3P3CH2>].
- Japthi Sravani, P. Manoj Kumar, V. Madhu, 2024, “Experimental Study on Bricks by using wood ash and sugarcane bagasse ash”, ‘6th International Anatolian Scientific Research Congress’, ISBN : 978-625-367-992-7. 8th -10th November 2024. ISKAD publishing House, Selcuk University, Konya, Turkiye. Page – 570-575.
- P. Manoj Kumar , Japthi Sravani, V. Madhu, 2024, “ Study of Mechanical properties of Metakaolin and M sand based concrete”, ‘6th International Anatolian Scientific Research Congress’, ISBN : 978-625-367-992-7. 8th -10th November 2024. ISKAD publishing House, Selcuk University, Konya, Turkiye. Page – 1163-1169.

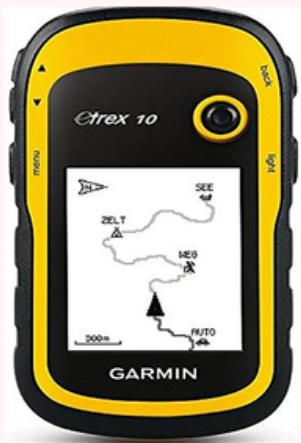
EQUIPMENT PURCHASED IRG GENERATED

The CAD & GIS Lab was equipped with Dell CPU OptiPlex 3050/5050 systems on 29th November 2024. Each system includes an Intel Core i7 7th Processor, 16 GB DDR4 RAM, 1 TB NVME SSD, NVIDIA 4 GB 730 Graphic Card, a Dell 20-inch LED monitor, and a Dell USB keyboard & mouse. The price per unit is ₹22,796.61, with an additional 18% GST (₹1,84,652.54). A total of 45 units were procured, amounting to ₹12,10,500/-.



For the Concrete & Highway Engineering Lab, a Modified Roughness Indicating Machine - Merlin was purchased on 25th January 2025. The cost of the machine is ₹25,270, along with an IGST of ₹4,548. A single unit was procured, resulting in a total expenditure of ₹29,818/-.

Modified Roughness Indicating Machine -Merlin



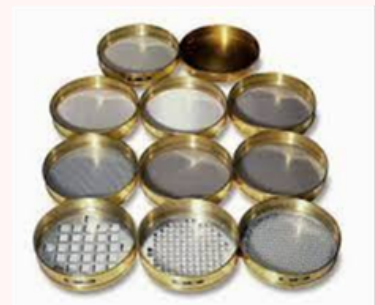
GasminEtrex10XGPS(Etrex10)



GLL5-50X Line Laser Level 50m Range + BT 150 Tripod (BOSCH)

The Engineering Mechanics Lab received two new equipment additions on 13th March 2024. The first was a GLL5-50X Line Laser Level with a 50m range and a BT 150 Tripod (BOSCH), priced at ₹11,270.34, with GST of ₹2,028.66, making the total cost ₹13,299/-. The second item was a Gasmin Etrex 10X GPS (Etrex 10), costing ₹13,135.59 plus a GST of ₹2,369.41, leading to a final cost of ₹15,500/-.

In the Geo-Technical Engineering Laboratory, 20 cm diameter brass sieves, ranging from 4.75 mm to 75 microns, were purchased on 28th November 2024. A single set was procured at a total cost of ₹24,225/-



20 Cm Diameter Brass Sieves From 4.75 Mm To 75 Microns

EQUIPMENT PURCHASED IRG GENERATED

The Civil Engineering Department actively engaged in consultancy services, offering expertise in mix design and conducting a diverse range of material testing. These tests encompassed soil classification and strength assessment, water quality analysis, cement fineness and consistency evaluation, steel tensile strength verification, brick compressive strength determination, and aggregate gradation and impact resistance tests. Through these specialized services, the department provided critical support to industries, construction firms, and research initiatives. As a result of these efforts, the department generated a total revenue of ₹1,47,950/- from consultancy works during the period from January to December 2024.

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