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PROBLEM SOLVING METHODOLOGY

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MARRA, KAKINADA DISTRICT


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LABORATORY SESSIONS

Laboratory sessions typically involve hands-on experiments or practical applications related to a particular subject or course. They provide students with an opportunity to apply theoretical knowledge, develop practical skills, and deepen their understanding of the material through direct experimentation or observation. What specific information or assistance are you looking for regarding laboratory sessions.



Petlurivaripalem, Andhra Pradesh, India

MASTAN REDDY NAGAR, A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY, Petlurivaripalem, Andhra Pradesh 522601, India

LAT 16.177521°

LONG 80.067478°

05/03/2023 01.45 P.M. GMT +05:30

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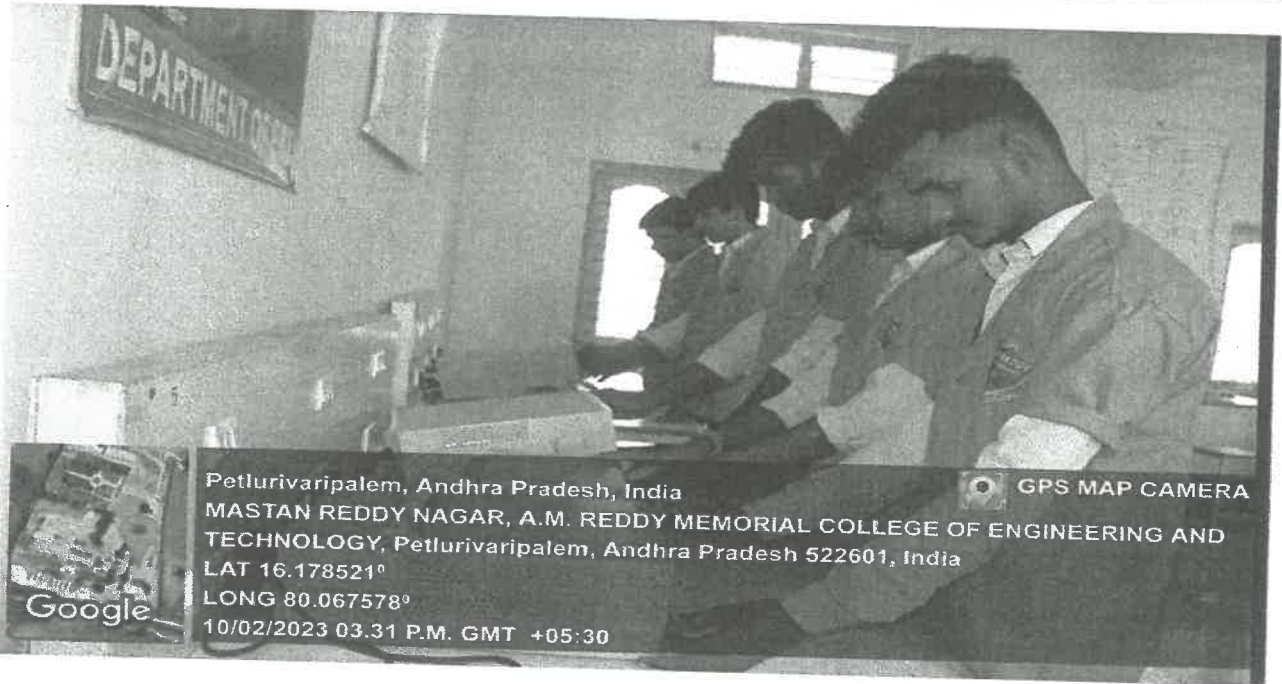
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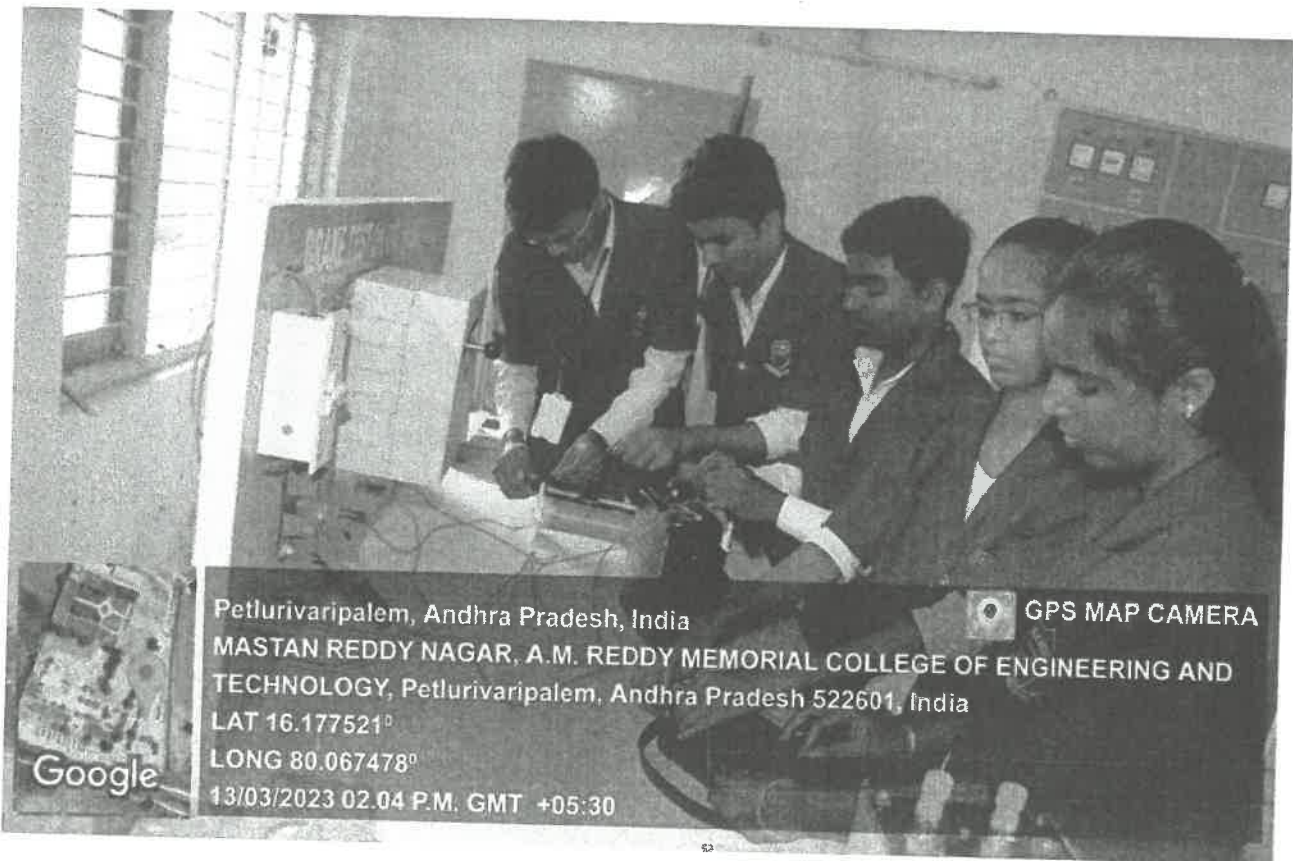
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LAT 16.178521°
LONG 80.067578°
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MASTAN REDDY NAGAR, A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING AND
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LAT 16.177521°
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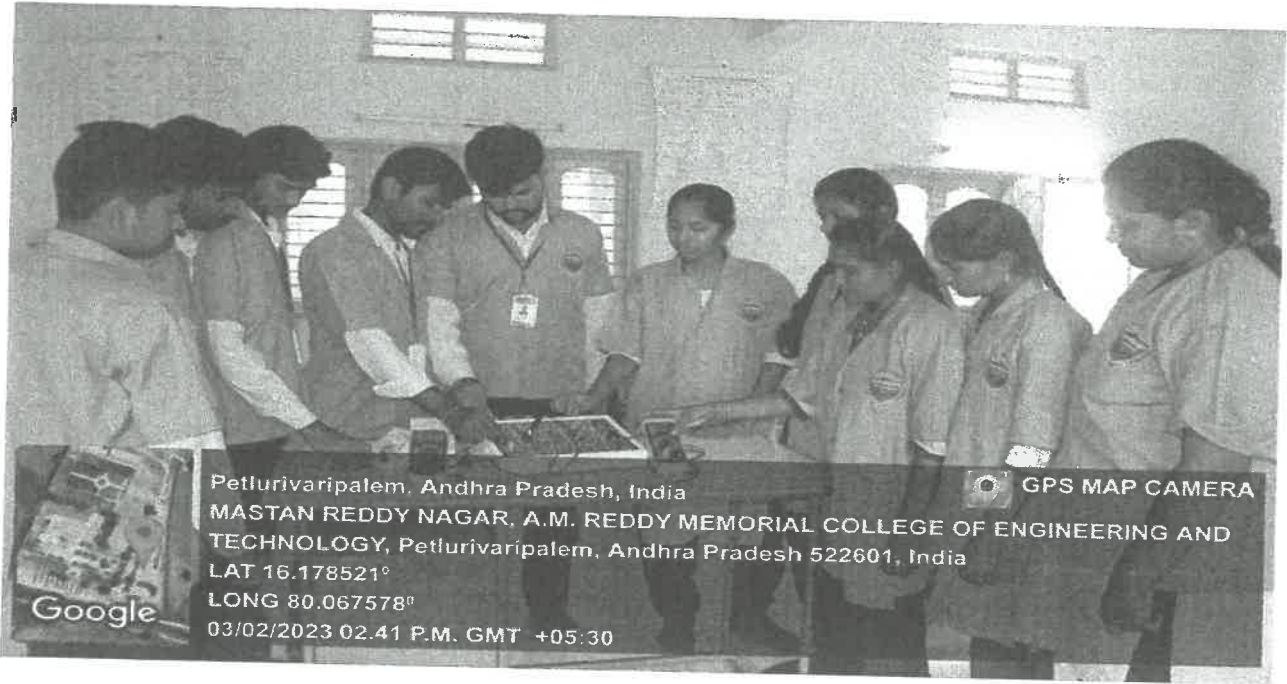
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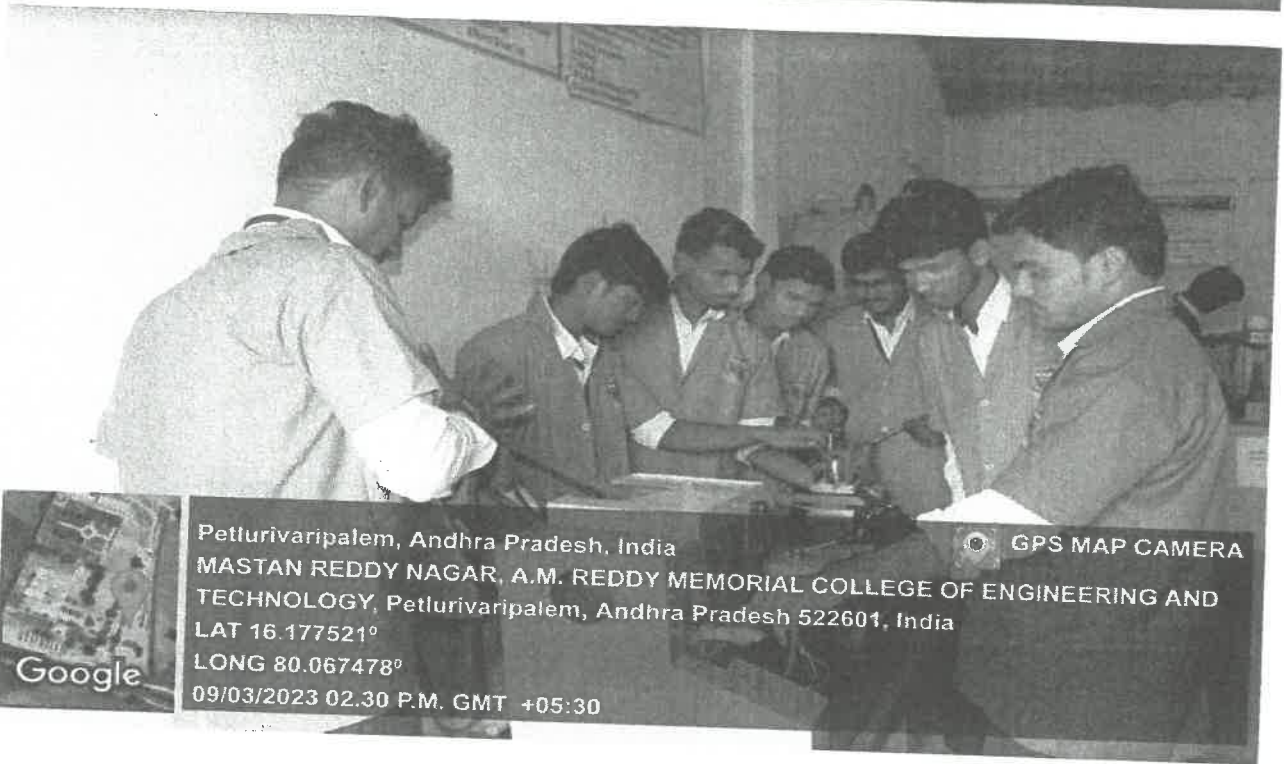
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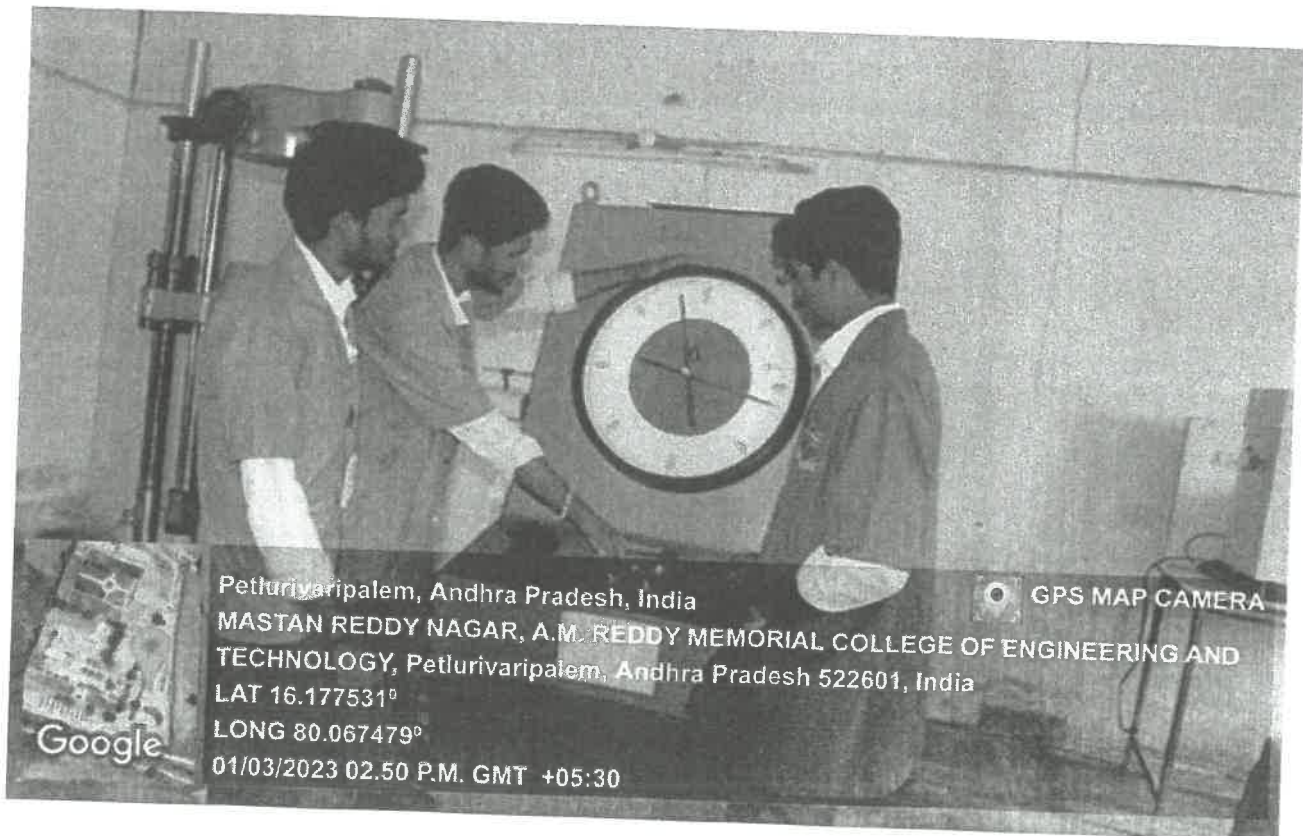
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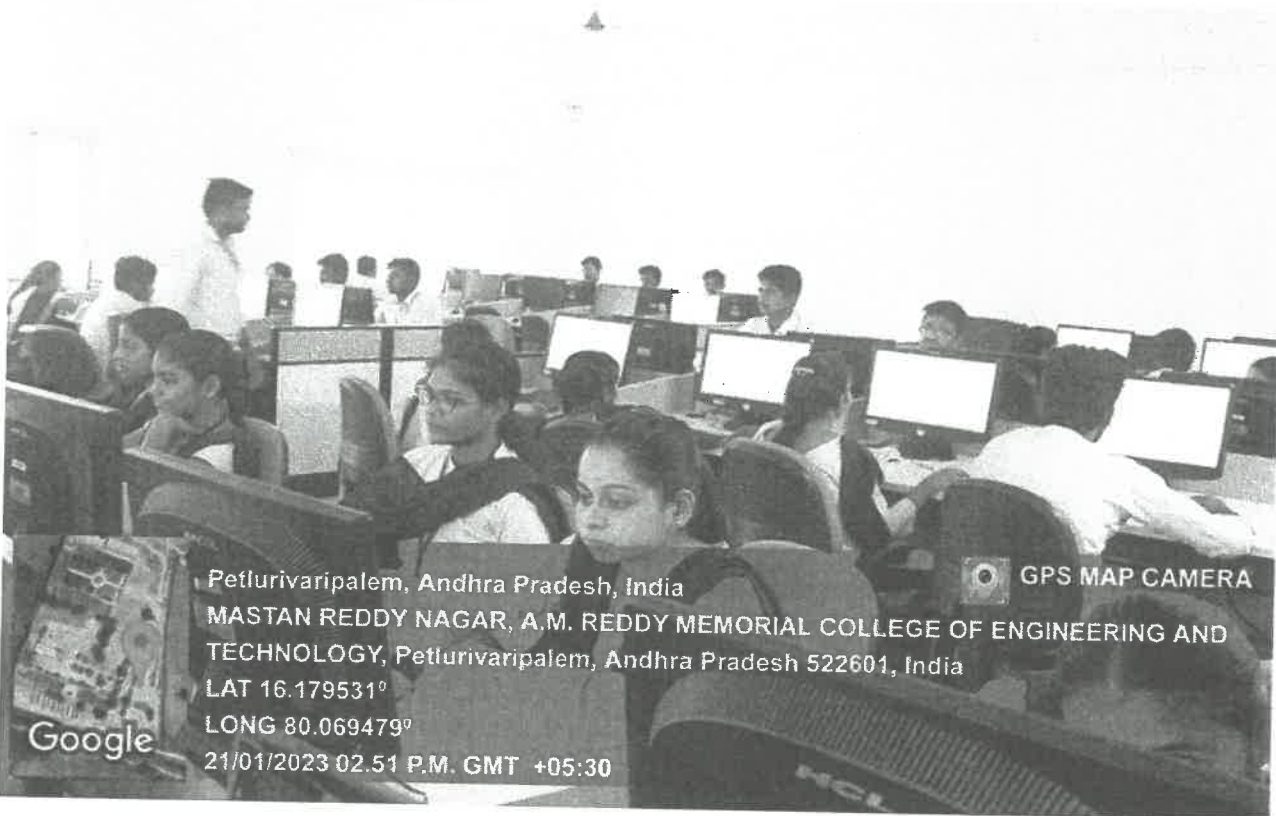
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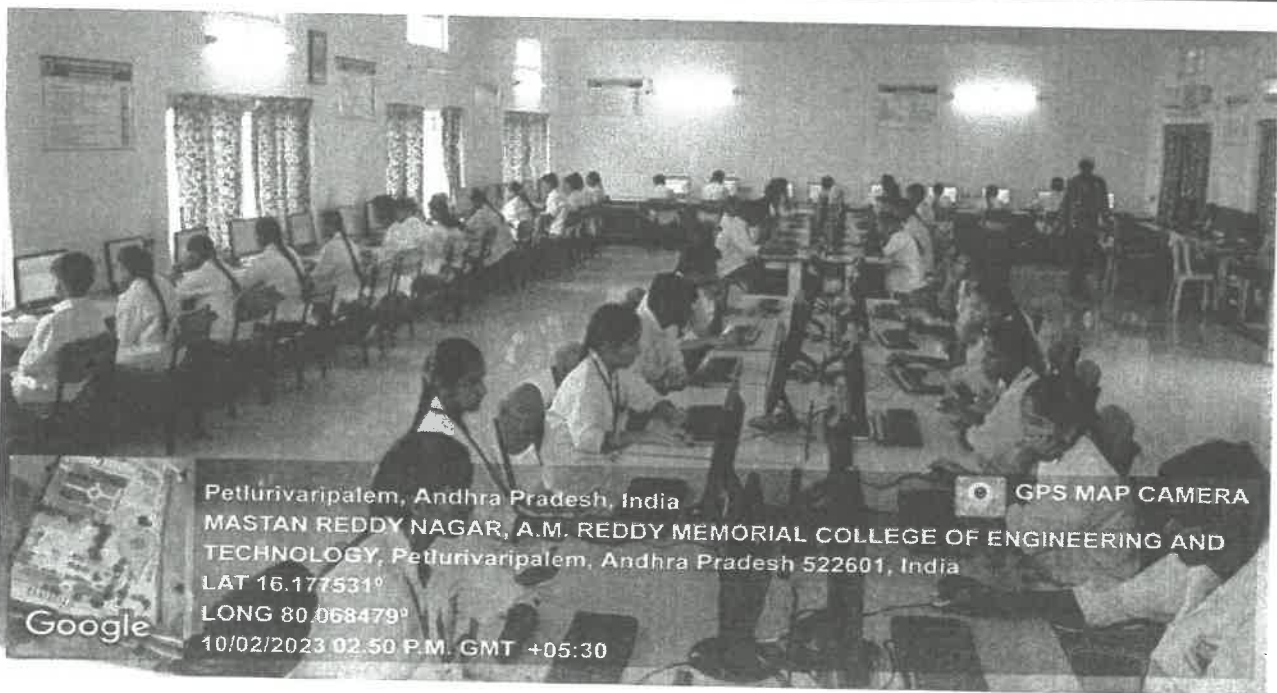
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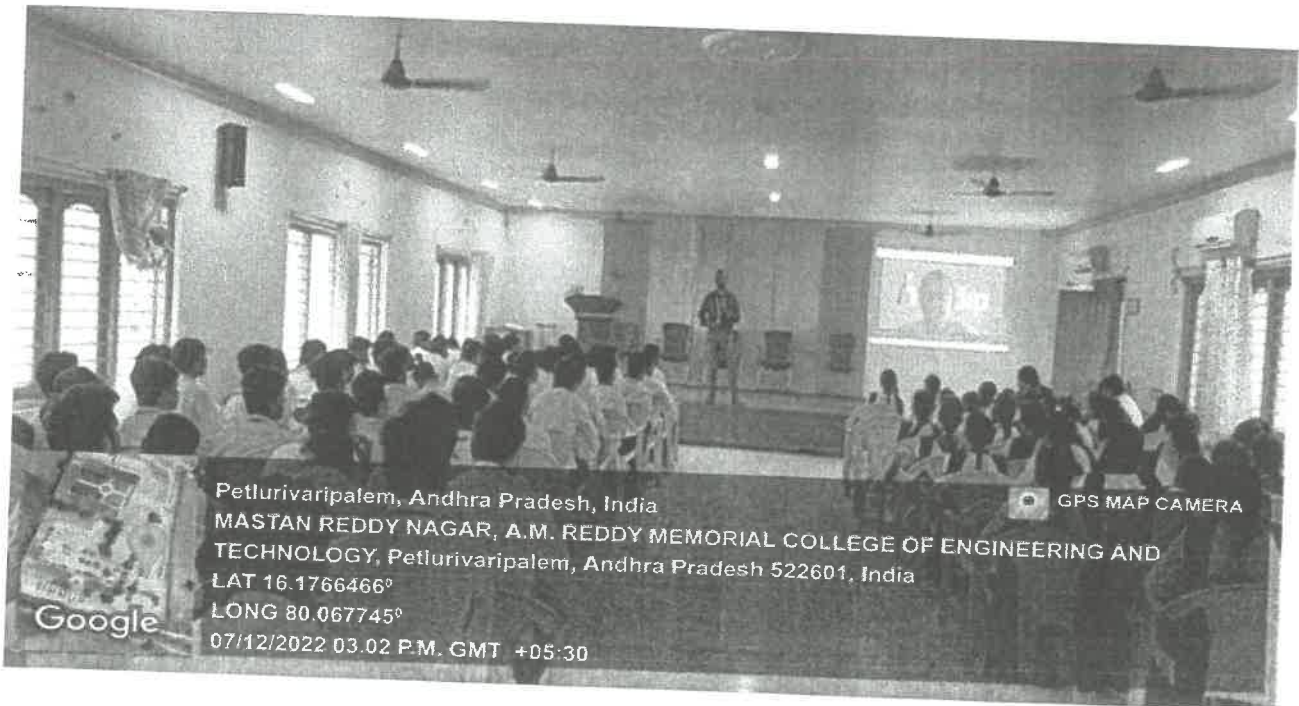
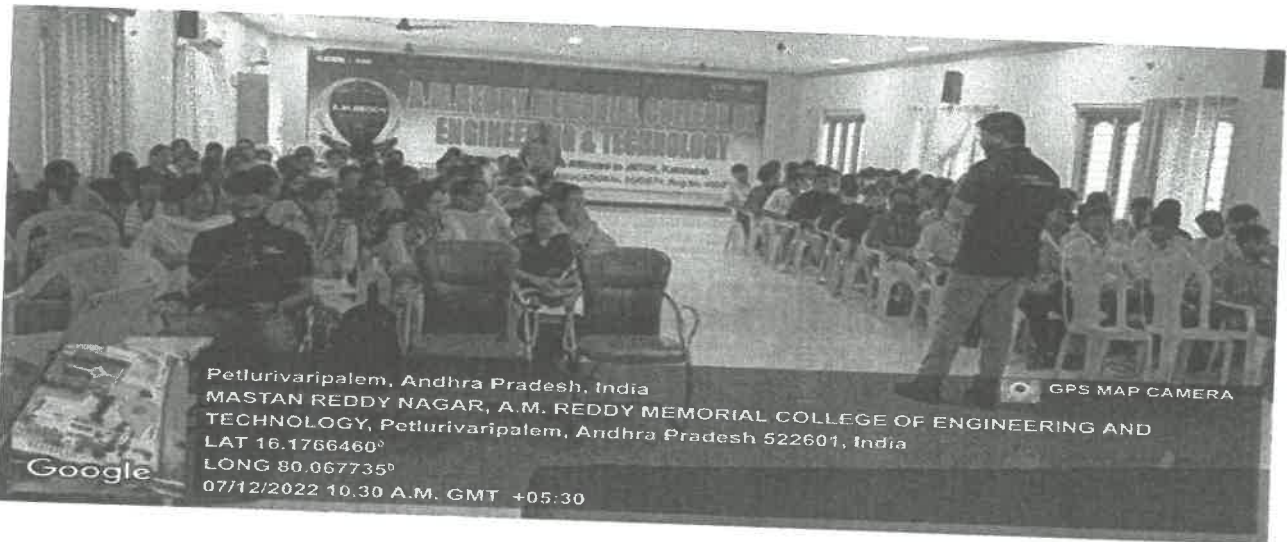
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EMPLOYABILITY SKILL DEVELOPMENT PROGRAMS

Employability skill development programs aim to enhance individuals' readiness for the workforce by providing training in essential skills such as communication, teamwork, problem-solving, and adaptability. These programs often include workshops, seminars, internships, and online courses tailored to specific industries or job roles. They help individuals acquire the skills and knowledge needed to succeed in today's competitive job market and increase their employability.



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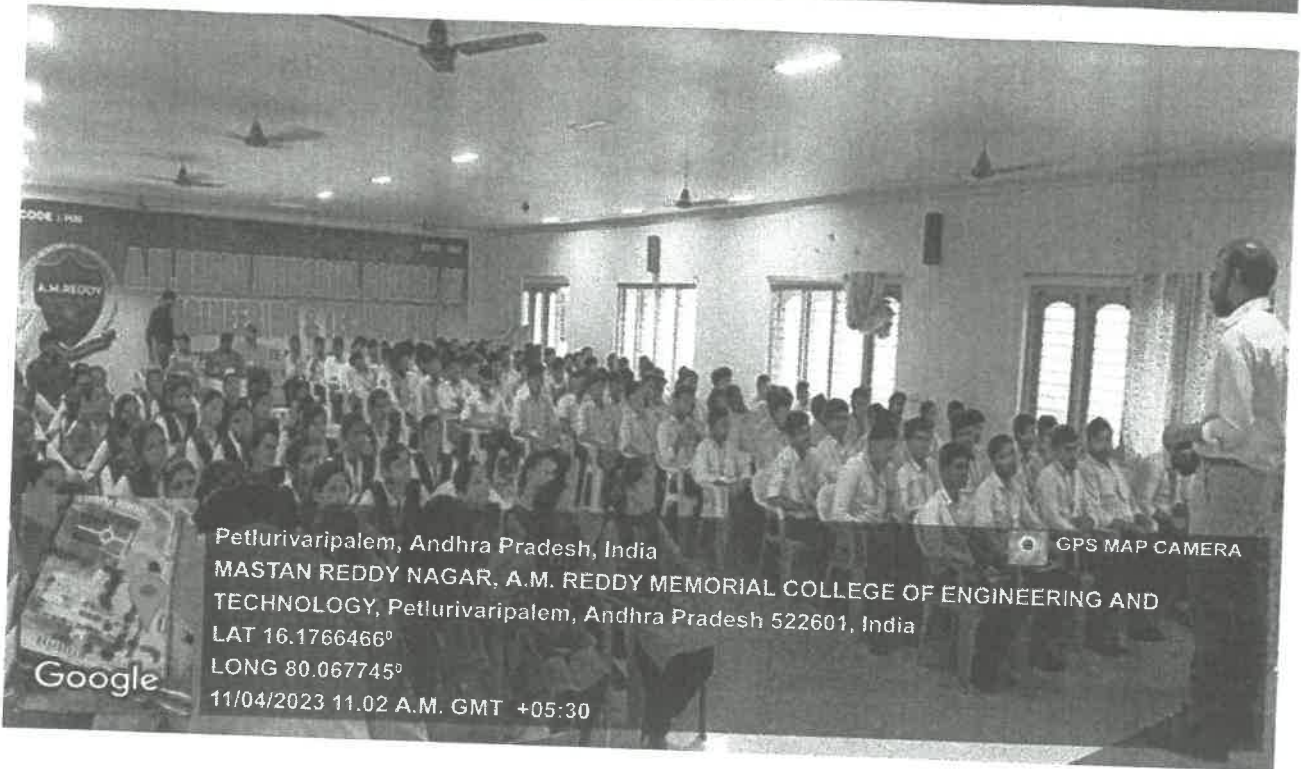
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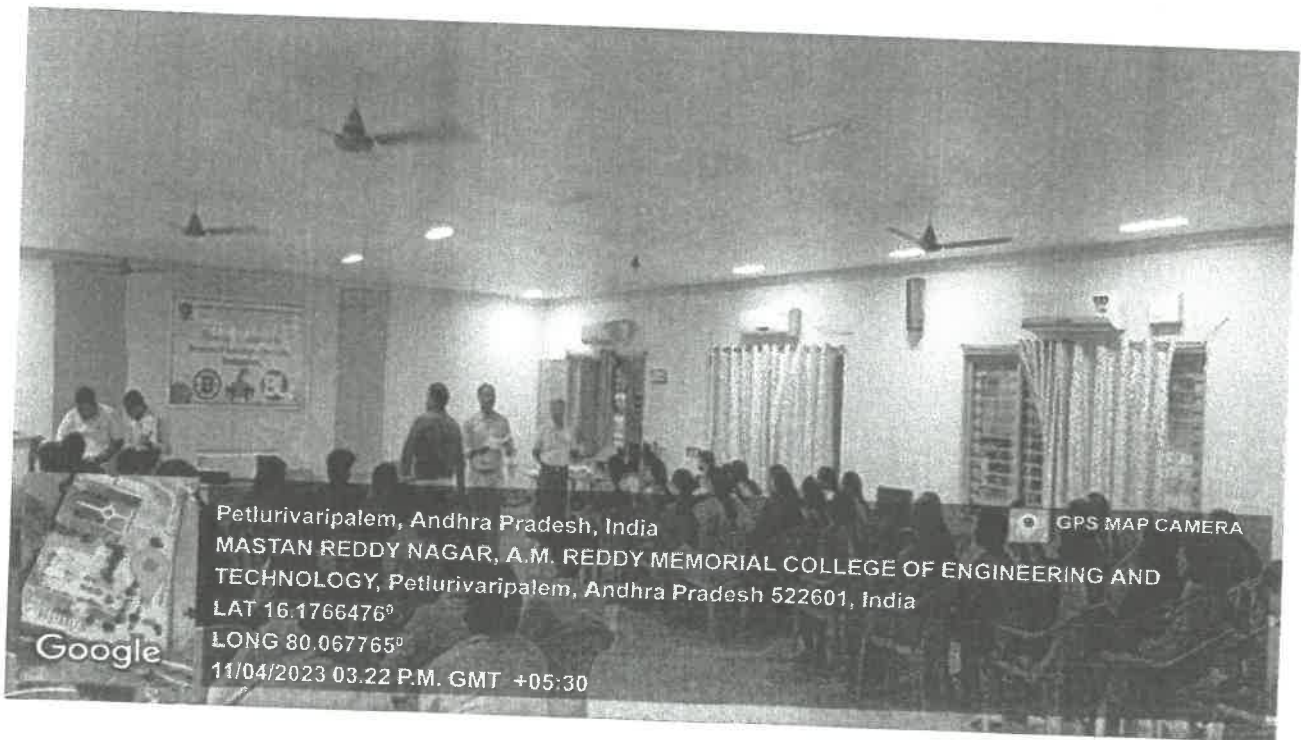
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LAT 16.1766466°
LONG 80.067745°
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MASTAN REDDY NAGAR, A.M. REDDY MEMORIAL COLLEGE OF ENGINEERING AND
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MINI PROJECTS

Mini projects refer to small-scale projects that are typically undertaken by individuals or small teams to gain practical experience, apply theoretical knowledge, or demonstrate specific skills. These projects can vary widely in scope, complexity, and duration, depending on the goals and resources available. Here are some examples of mini projects across different domains:

Software Development: Creating a simple mobile app, building a basic website, developing a game prototype, or implementing a small software tool to automate a task.

Electronics: Designing and building a simple electronic circuit, constructing a basic robot, or creating a small IoT (Internet of Things) device.

Mechanical Engineering: Designing and building a small-scale prototype of a machine or mechanism, constructing a model vehicle, or developing a basic 3D-printed object.

Renewable Energy: Building a miniature wind turbine or solar panel system to demonstrate energy generation and storage concepts.

Biotechnology: Conducting a small-scale experiment to investigate a biological process or testing the effectiveness of a specific treatment or intervention.

Marketing: Developing a social media marketing campaign for a local business, conducting market research on a niche market, or creating promotional materials for a product or service.

Education: Designing and implementing a mini teaching module or workshop on a specific topic, creating educational resources such as quizzes or flashcards, or developing a small educational game or app.

Mini projects offer valuable opportunities for hands-on learning, experimentation, and skill development, making them a popular choice for students, hobbyists, and professionals looking to enhance their expertise in a particular area.


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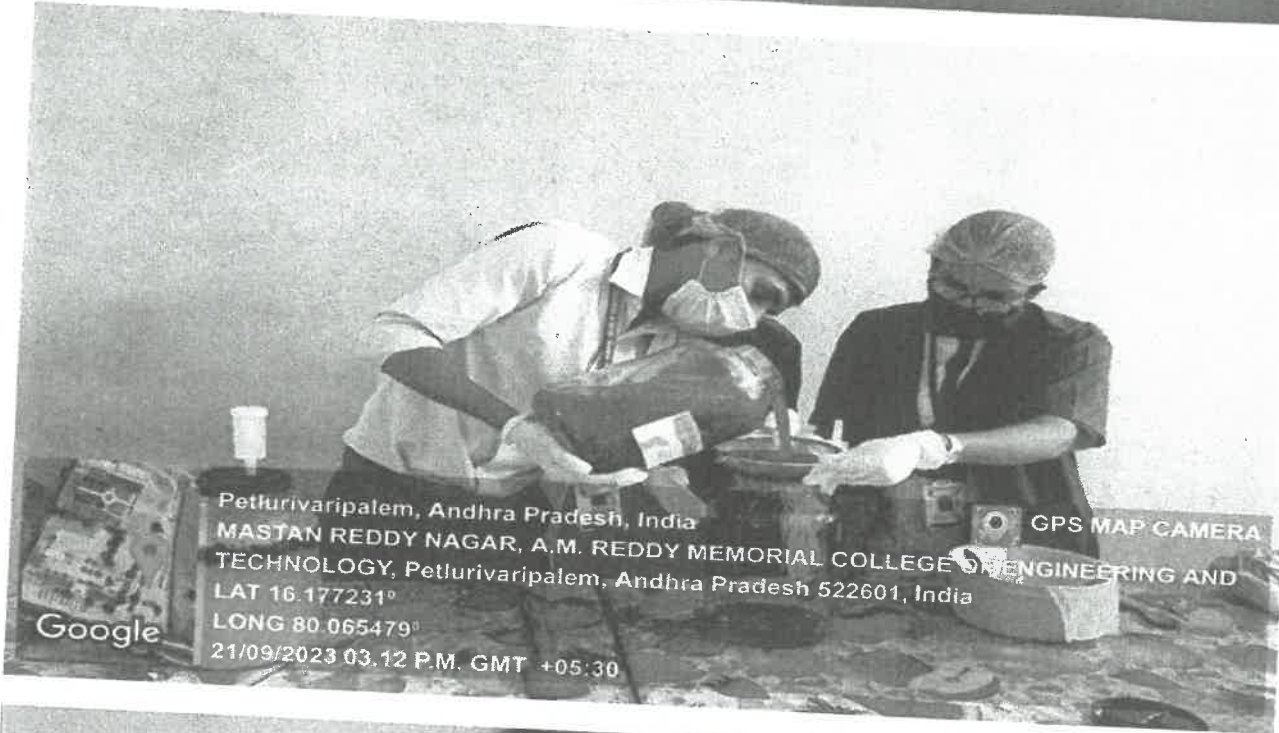

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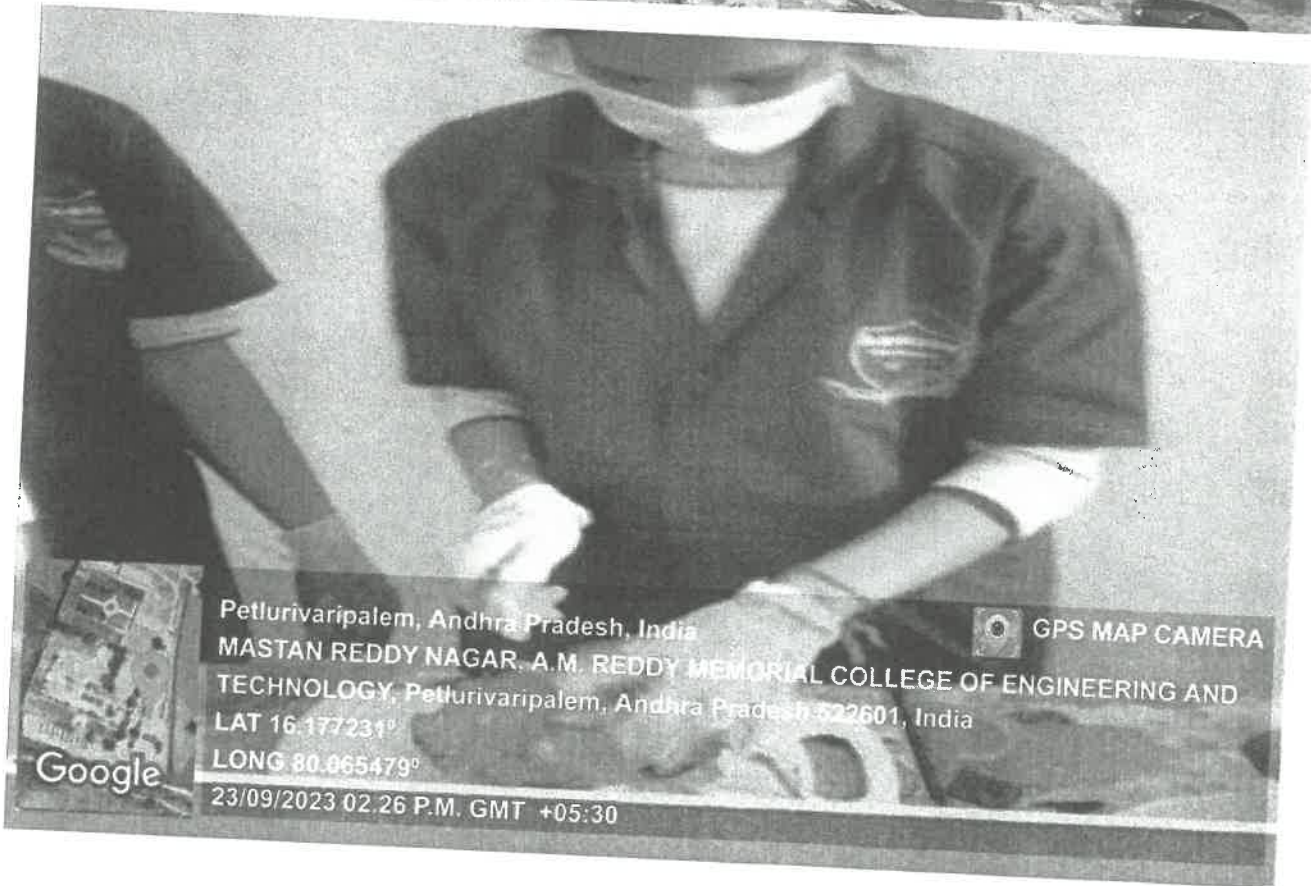
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LAT 16.177231°
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21/09/2023 03.12 P.M. GMT +05:30

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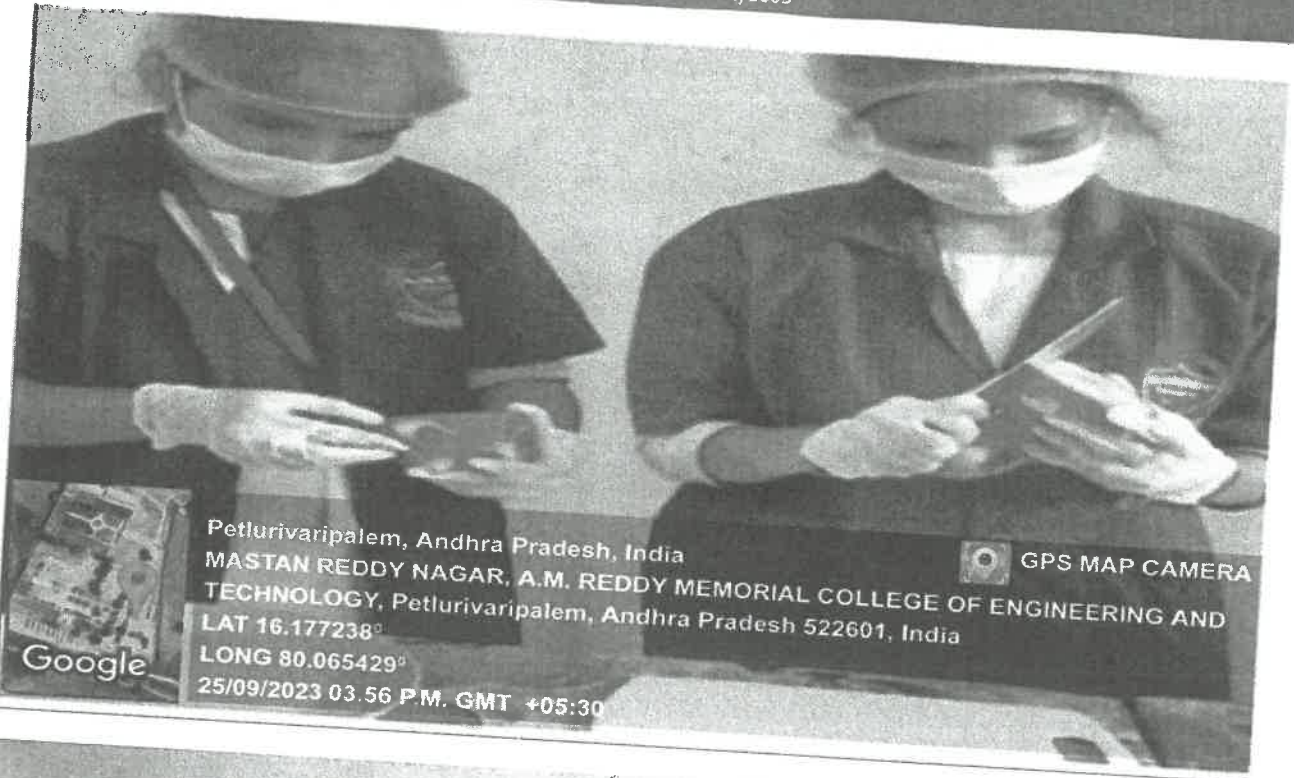
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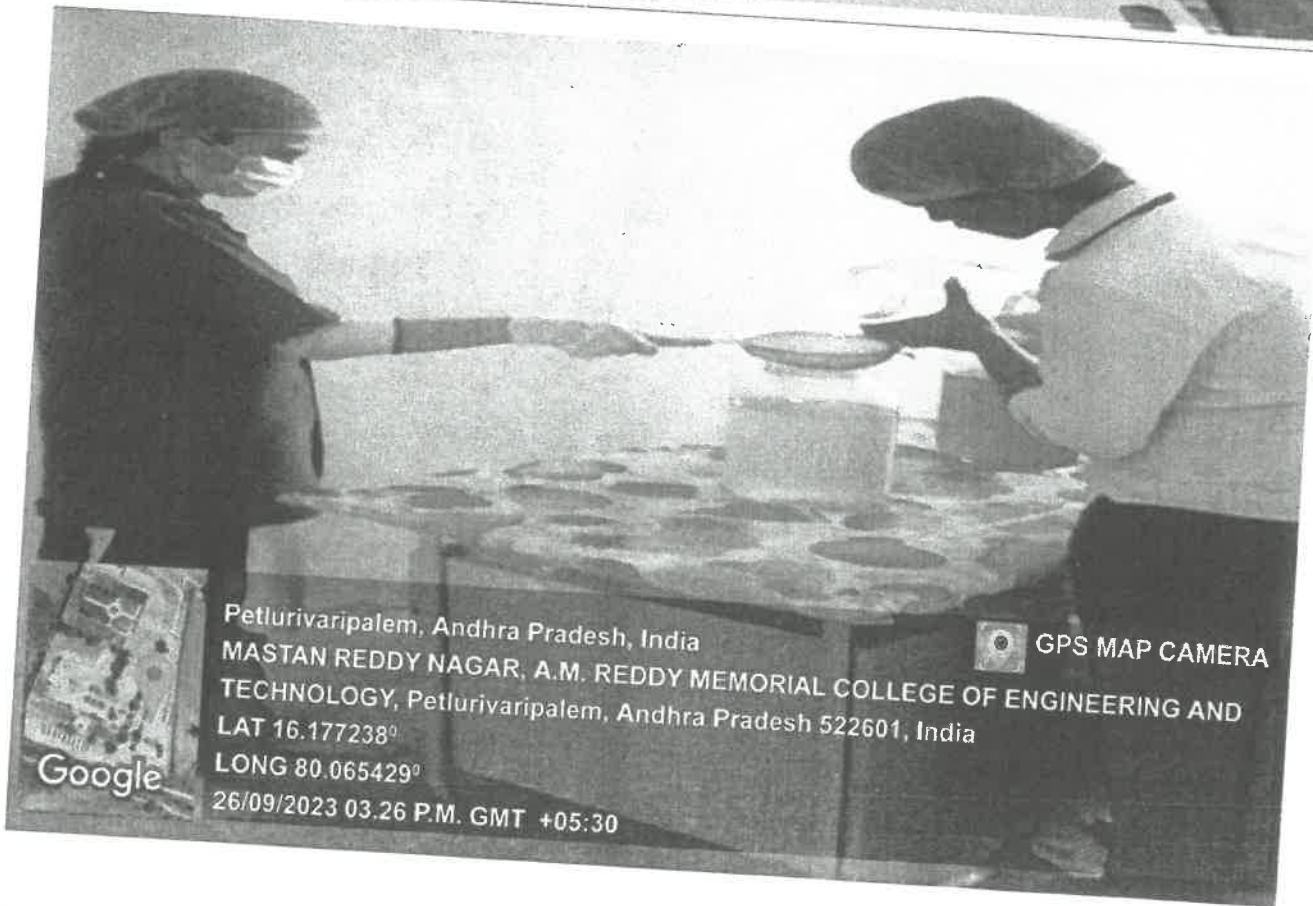
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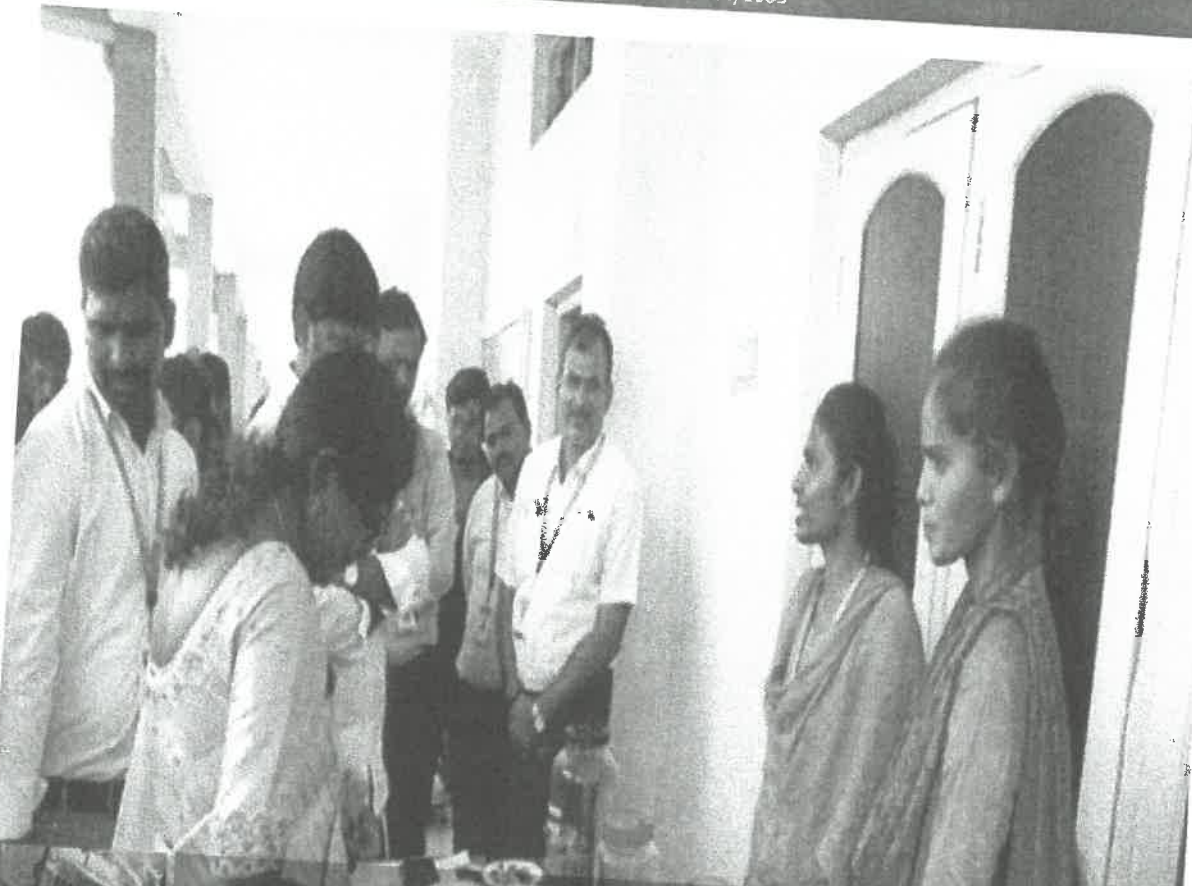
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INTERNAL EVALUATION AND ASSIGNMENTS

JNTUK (Jawaharlal Nehru Technological University, Kakinada) internal evaluation typically refers to the assessment process conducted by the university for its students during their academic semesters. This may include assignments, quizzes, mid-term exams, laboratory work, projects, and other forms of evaluation carried out by the university faculty to gauge students' understanding and progress in their courses.

Assignments: Students are often given assignments to complete, which contribute to their overall grade. These assignments may be individual or group-based and can cover various topics from the curriculum.

Quizzes: Short quizzes may be administered periodically to assess students' understanding of recent course material. These quizzes help instructors gauge student comprehension and provide feedback to students on their progress.

Mid-term Exams: Mid-term exams are conducted during the semester to evaluate students' knowledge and understanding of the material covered up to that point. These exams often cover a significant portion of the course curriculum and help identify areas where students may need additional support.

Laboratory Work: For courses with a practical component, such as science or engineering courses, laboratory work is an essential part of the evaluation process. Students are assessed based on their performance in laboratory experiments and their ability to analyze and interpret results.

Projects: Some courses may require students to complete projects, either individually or in groups. These projects allow students to apply their knowledge to real-world problems and are often a significant component of the final grade.

Attendance: Attendance may also be a factor in the internal evaluation process. Some courses have minimum attendance requirements, and students may lose marks or face penalties for excessive absences.

Participation: In some classes, students may be evaluated based on their participation in class discussions, group activities, or presentations. Active participation can contribute to a student's overall grade.

Overall, the internal evaluation process at JNTUK aims to assess students' understanding of the course material, their ability to apply concepts in practical situations, and their engagement with the learning process throughout the semester.

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ASSIGNMENT BOOK

Theory, Design, Analysis, Simulation / Algorithms

Registration: AV

DEPARTMENT OF CIVIL ENGINEERING

Name of the Student: V. Charchika

Regd. No.: 2011M1A0548

Year/Sem/Section: III-I

Subject: DWS DM

Admitted Batch: 2021-2022

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MID I

Ticket	MID I			MID II			TOTAL
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INNOVATIVE PROJECTS

Innovation refers to the process of creating new ideas, products, services, or processes that add value or solve problems. It involves transforming ideas into tangible outcomes that benefit individuals, organizations, or society as a whole. Innovation can occur in various domains, including technology, business, science, healthcare, education, and more

Stay Competitive: In a rapidly changing landscape, institutions need to innovate to stay competitive. Innovation allows them to adapt to new trends, technologies, and market demands, ensuring their relevance and sustainability in the long term.

Drive Growth: Innovation fuels growth by opening up new opportunities for expansion, diversification, and revenue generation. Institutions that innovate are better positioned to attract investment, forge partnerships, and seize emerging market niches.

Enhance Efficiency: Innovation often leads to process improvements, automation, and streamlining of operations. By embracing innovative practices and technologies, institutions can enhance efficiency, reduce costs, and optimize resource utilization.

Improve Quality: Innovation can lead to the development of new products, services, or solutions that meet or exceed customer expectations. By continually innovating, institutions can improve the quality of their offerings, enhance customer satisfaction, and build brand loyalty.


Foster Talent Development: Institutions that prioritize innovation attract and retain top talent. Innovation projects provide employees with opportunities for professional growth, skill development, and creative expression, fostering a culture of learning and empowerment.

Address Challenges: Innovation enables institutions to tackle complex challenges and societal issues more effectively. Whether it's finding sustainable solutions to environmental problems, improving healthcare outcomes, or promoting social equity, innovative approaches can lead to transformative change.


Promote Thought Leadership: Institutions that are at the forefront of innovation often become thought leaders in their respective fields. By pioneering new ideas, methodologies, or technologies, they influence industry standards, shape public discourse, and inspire others to follow suit.

Future-Proofing: Innovation is essential for future-proofing institutions against uncertainties and disruptions. By continuously innovating and adapting to change, institutions can anticipate and respond proactively to emerging threats or opportunities, ensuring their resilience and longevity.

Overall, innovation is essential for institutions to thrive in today's dynamic and competitive environment. It enables them to drive growth, enhance efficiency, improve quality, foster talent development, address challenges, promote thought leadership, and future-proof their operations. Institutions that embrace a culture of innovation are better positioned to succeed and make a positive impact in the world.


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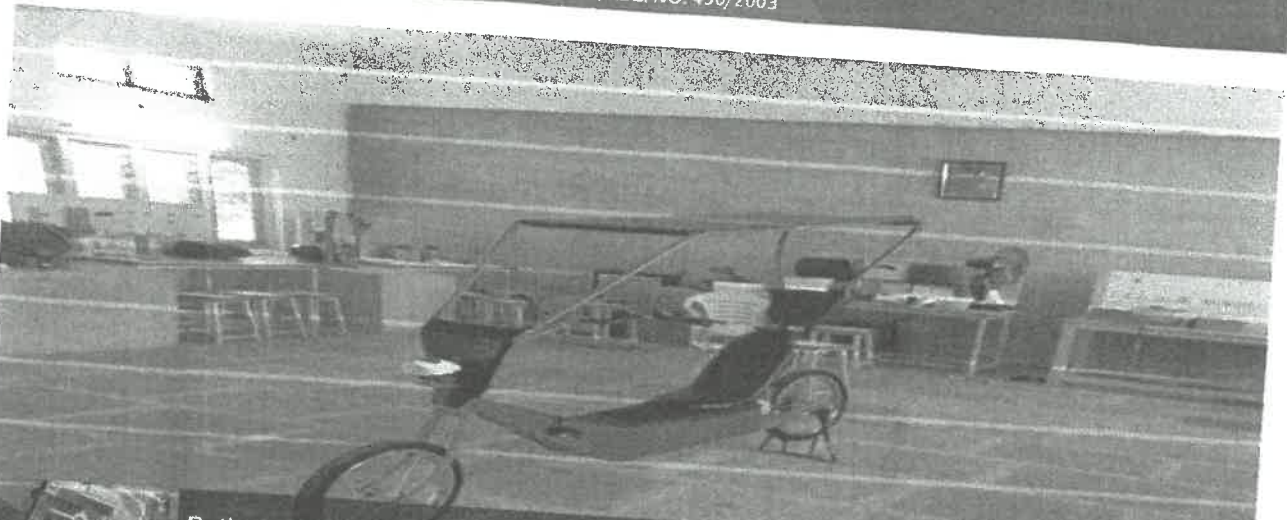
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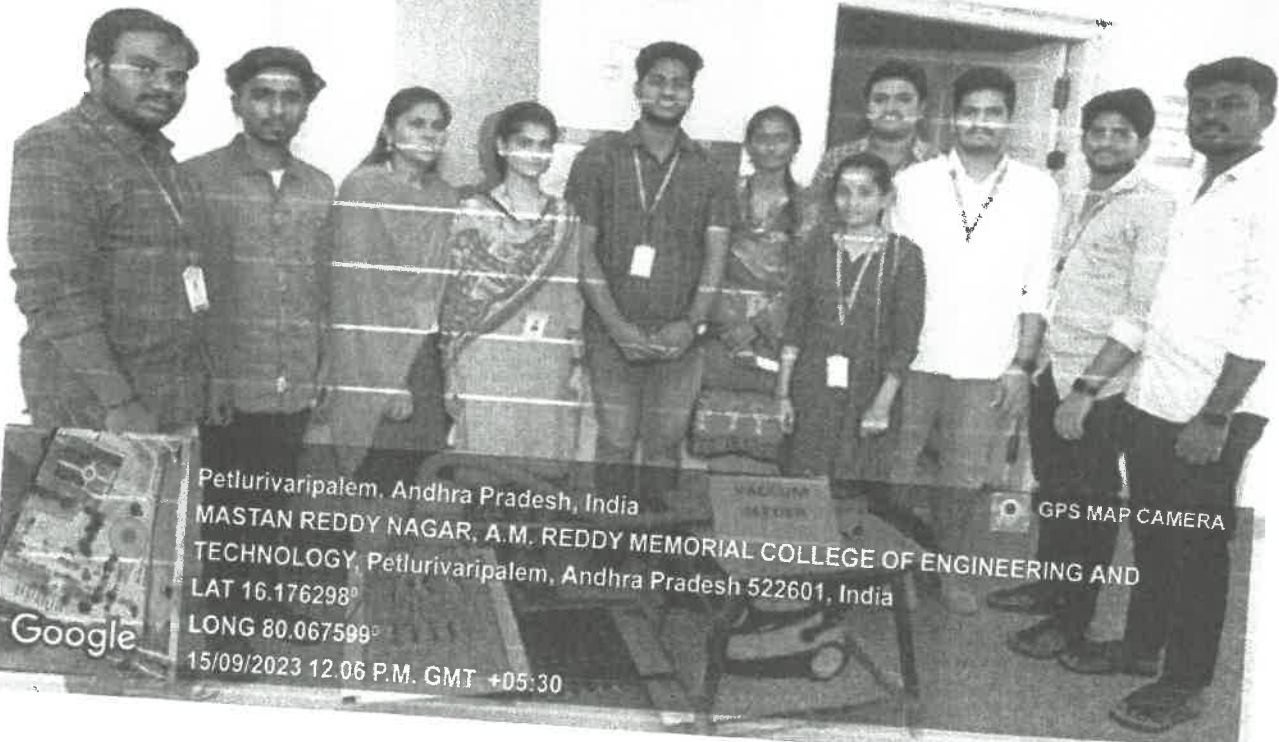
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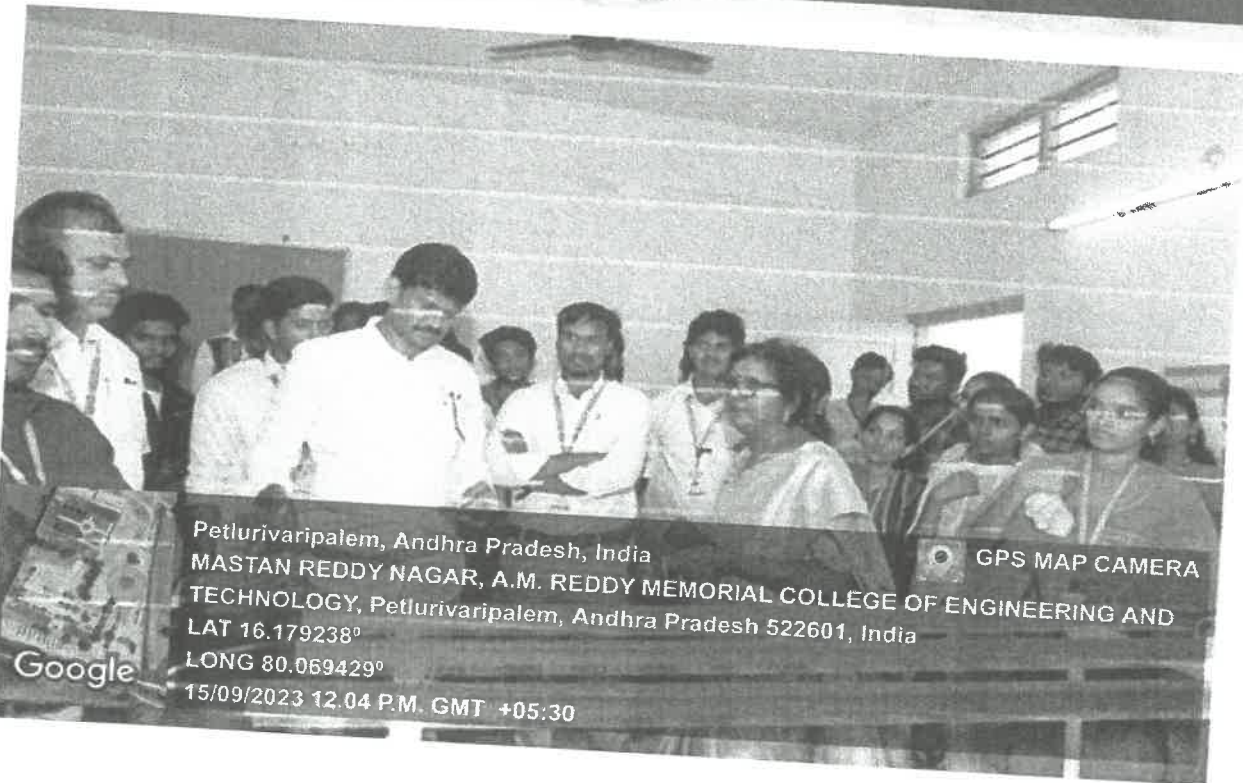
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SKILL DEVELOPMENT PROGRAMS

Skill development programs are structured initiatives designed to enhance individuals' competencies in specific areas, such as technical skills, soft skills, or domain knowledge. These programs often include training sessions, workshops, mentorship opportunities, and hands-on experiences tailored to the needs of participants. They aim to equip individuals with the skills required to excel in their careers, adapt to changing job markets, and contribute effectively to their organizations or industries. Popular skill development areas include digital literacy, communication skills, leadership development, technical skills in various fields, and entrepreneurship training.

Career Advancement: They help individuals acquire new skills or enhance existing ones, making them more competitive in the job market and increasing their chances of career advancement.

Adaptability: In today's rapidly changing work environment, skill development programs help individuals stay abreast of industry trends and technological advancements, enabling them to adapt and thrive in evolving roles.

Productivity and Efficiency: Improved skills lead to increased productivity and efficiency in the workplace. Employees who are well-trained and knowledgeable can perform tasks more effectively, contributing to organizational success.

Employee Engagement and Retention: Offering skill development opportunities demonstrates an organization's commitment to employee growth and development, which can boost morale, increase job satisfaction, and reduce turnover.

Innovation: By fostering a culture of continuous learning, skill development programs encourage innovation and creativity among employees, leading to the generation of new ideas and solutions.

Economic Growth: Skill development programs contribute to economic growth by increasing the overall skill level of the workforce, which in turn enhances productivity, drives innovation, and attracts investment.

Social Inclusion: Skill development programs can help bridge the gap between different socio-economic groups by providing opportunities for marginalized or underprivileged individuals to acquire valuable skills and improve their employment prospects.

Overall, skill development programs play a crucial role in personal and professional growth, organizational success, and socio-economic development.

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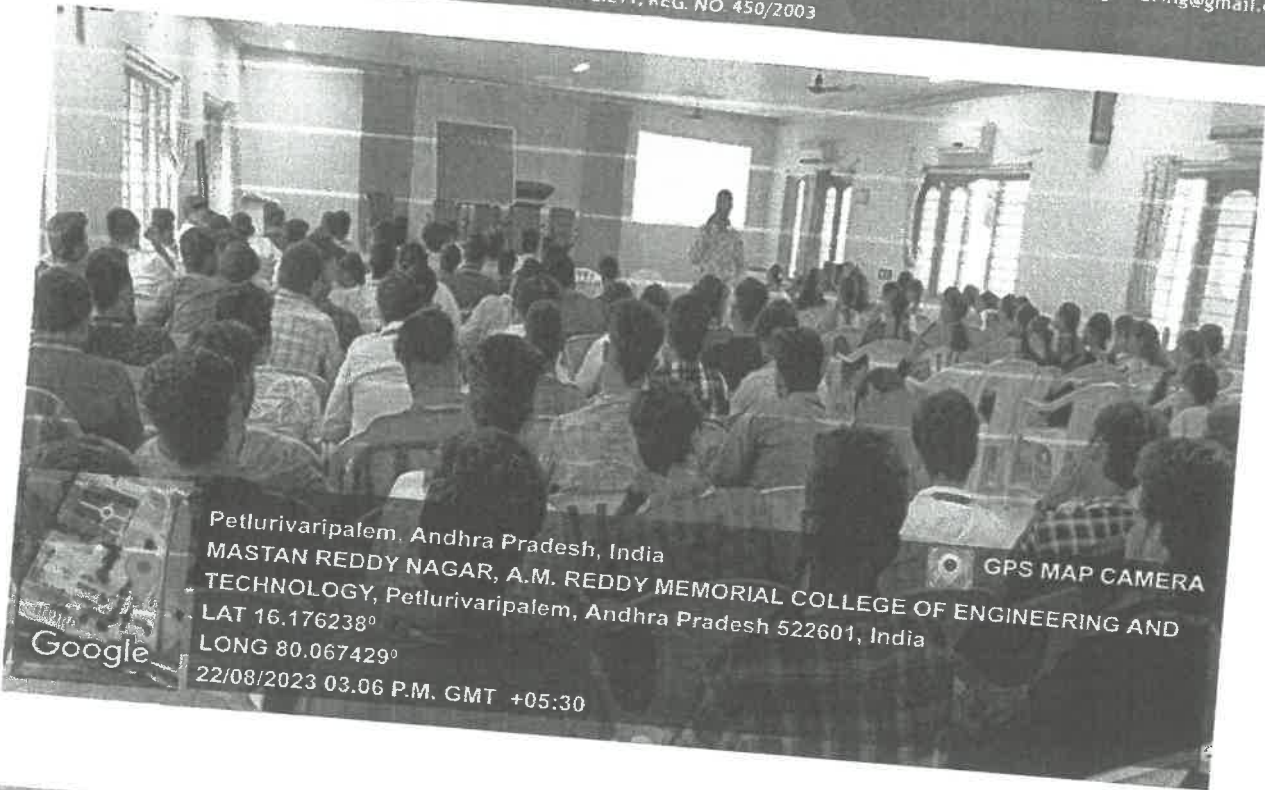


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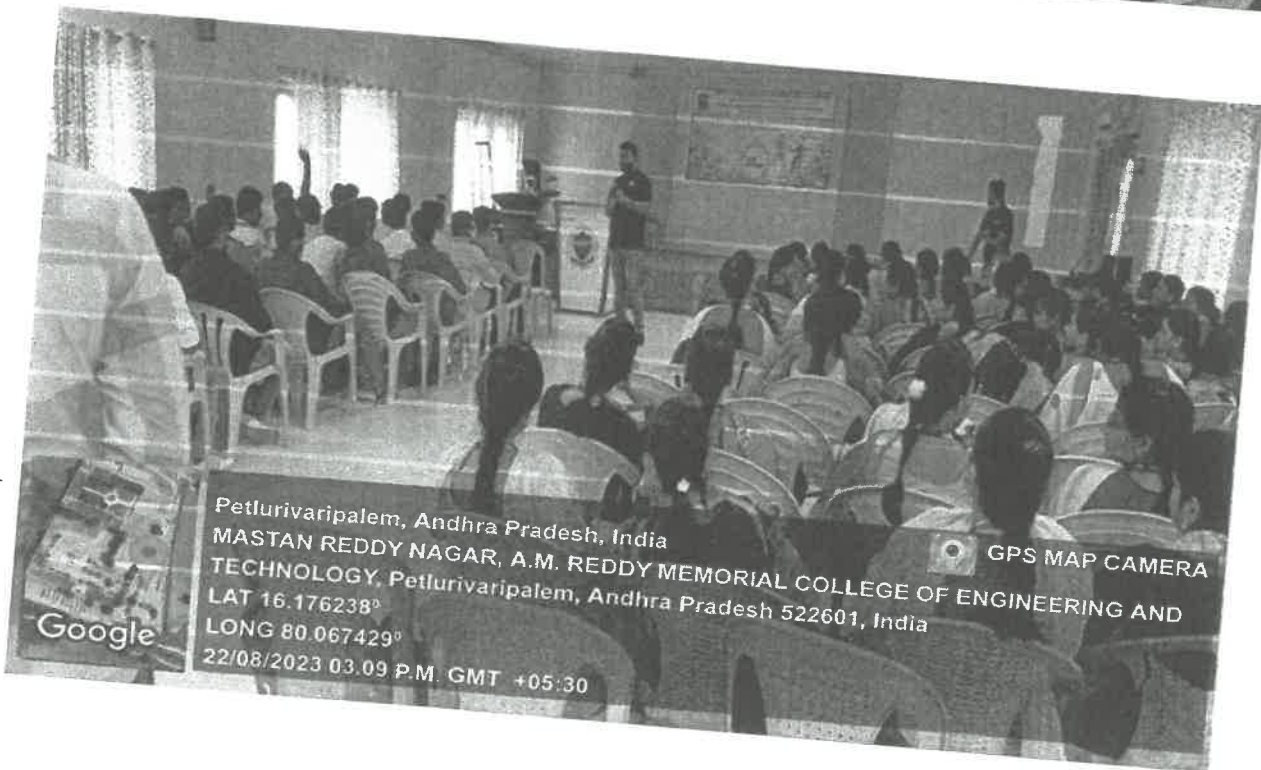
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INCUBATION CENTER

The Incubation center formation meeting convened on 2nd December, 2021 at principal chamber with key stakeholders, including all department heads and chaired by Principal, Dr. Ch. Mallikarjuna. The meeting commenced with an introduction highlighting the critical need for establishing an Incubation center within the engineering college.

INCUBATION CENTER STRUCTURE:

- The Incubation Center comprises a chairman, a Coordinator, and 5-6 members.
- It is tasked with coordinating all activities related to Incubation center.

PROPOSAL FOR ESTABLISHING AN INCUBATION CENTER

Introduction:

An incubation hub serves as a catalyst for nurturing start-ups and initiatives, offering vital resources and guidance for their growth. With a prime opportunity at hand, our engineering institution aims to spearhead the establishment of such a hub, fostering a culture of innovation and entrepreneurship among both students and faculty.

Mission and Vision:

Our objective is to weave innovation and entrepreneurship into the fabric of our engineering institution, thereby driving societal and economic progress. We envision a dynamic ecosystem where individuals can translate their ideas into thriving enterprises, enriching education quality and fuelling socioeconomic advancement.

Objectives:

Aligned with our mission and vision, our incubation hub is designed to provide comprehensive support, resources, and networking avenues for start-ups and initiatives within our community. By showcasing success stories and fostering collaboration, we aspire to cultivate an ethos of innovation and entrepreneurship that permeates throughout our institution.

Scope:

Our incubation hub embraces a wide array of start-ups and initiatives, catering to various developmental stages and sectors including emerging technologies, social innovation, and sustainable solutions. Flexible program durations and frequencies will be tailored to suit the unique needs of each endeavour.

Infrastructure and Facilities:

Equipped with state-of-the-art amenities such as office spaces, meeting rooms, and specialized laboratories, our incubation hub will provide an optimal environment for start-up growth. We will ensure



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seamless access to technology infrastructure, encompassing computers, internet connectivity, software, and hardware.

Services and Support:

Mentorship, training programs, networking opportunities, and funding access will constitute the comprehensive support services offered by our incubation hub. These initiatives are crafted to empower start-ups, aiding them in surmounting obstacles, honing skills, and attaining their objectives.

Selection Criteria:

Transparent evaluation criteria, emphasizing innovation, feasibility, and scalability, will guide the selection of start-ups and initiatives. Upholding fairness and impartiality, our application and assessment process will identify ventures with the utmost potential for success.

Governance Structure:

A governance framework involving faculty, staff, and advisory board members will oversee the operations of our incubation hub. Clear delineation of roles and responsibilities will uphold accountability, transparency, and operational efficiency.

Partnerships and Collaborations:

Recognizing the significance of partnerships, we aim to collaborate with departments, alumni, industry players, government bodies, and non-governmental organizations (NGOs). Leveraging their expertise, resources, and networks will enrich our ecosystem and amplify our impact.

Funding and Sustainability:

Initial funding will be allocated towards infrastructure, equipment, staffing, and service provision. Diverse funding streams including grants, sponsorships, and donations will be pursued, alongside long-term sustainability strategies such as revenue generation and endowment creation.

Timeline:

A structured timeline delineating key milestones and deadlines will guide the establishment and operation of our incubation hub. Each phase, from fundraising to program launch, will contribute towards realizing our vision and achieving tangible outcomes.

Conclusion:

Establishing an incubation hub within our engineering institution presents a transformative opportunity to nurture innovation and entrepreneurship. By equipping individuals with essential resources and support, we can catalyse the translation of ideas into impactful ventures, fostering positive change within our community and beyond. We eagerly anticipate feedback and collaboration as we embark on this exhilarating journey together.

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Appendices:

Supplementary documents including financial projections, partnership agreements, and pertinent materials are appended herewith, bolstering the integrity of our proposal.

Members of the Incubation Center for A.Y 2022-23:

S. No.	Name of the Committee Member	Designation & Department	Position
1	Dr. Mallikharjuna	Principal	Chairman
2	Dr. V. Gajendra Kumar	HOD, ECE	Coordinator
3	Dr. BalaMurugan	HOD, CE	Member
4	Dr S.Senthilkumar	HOD, EEE	Member
5	Dr.B.Chandrasekhar	HOD, CSE	Member
6	Dr.G.Bhaskar Reddy	HOD, S&H/ Vice-Principal	Member
7	Dr.Ch.MalliKarjuna	HOD, ME	Member
8	Dr.DAnandBabu	HOD, AGE	Member

Members of an engineering college's incubation Center mentor start-ups, facilitate networking with industry professionals, manage resources, organize workshops, evaluate and select start-up ideas, aid in securing funding, monitor progress, ensure legal compliance, maintain documentation, promote initiatives, stay updated with trends, gather feedback, and engage alumni. These duties collectively foster entrepreneurship, innovation, and success within the college's entrepreneurial ecosystem.

CO-ORDINATOR

PRINCIPAL

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