



GOPALAN

**COLLEGE OF ENGINEERING
AND MANAGEMENT**

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015

Inter Disciplinary Innovative Research Centre(IDIRC) - GCEM



www.gopalancolleges.com



GOPALAN

**COLLEGE OF ENGINEERING
AND MANAGEMENT**

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B+ grade by NAAC ISO 9001:2015

Inter Disciplinary Innovative Research Centre(IDIRC) - GCEM

**Inauguration of
Inter Disciplinary
Innovative
Research
Centre(IDIRC).**



**Lamp lighted by
Mrs. Sunitha
Prabhakar**

Vice President
- Gopalan Foundation

02-12-2024



www.gopalancolleges.com



GOPALAN

COLLEGE OF ENGINEERING AND MANAGEMENT

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015



Dr. C. Prabhakar
General Secretary

At its core, our lab is more than just equipment, computers, and chemicals - it's a space where questions become hypotheses, and hypotheses become breakthroughs. Whether we're working on drones, robotics, renewable energy, artificial intelligence, biotechnology, materials science, etc.

Our mission is to solve real-world problems through rigorous inquiry and creative thinking.

To those considering getting involved in research - I encourage you to take that leap. You don't have to have all the answers. Just bring your questions, your passion, and your willingness to learn. That's where every discovery begins -

Join us not just as visitors, but as fellow explorers.

Vision

Interdisciplinary Innovative Research promotes collaboration among Faculty and Students, fostering team work to solve multidisciplinary societal problems effectively to achieve shared goals.

Mission

The Centre aims at creating and disseminating new knowledge of Interdisciplinary Research culture among students and faculty. The Centre provides innovative solutions to the industrial problems and adds value to the National Economy.

Role of IDIRC



Support for collaborative research:

Encouraging faculty, staff, and students from different disciplines to collaborate on research projects.



Building an inclusive environment:

Fostering a culture of openness, respect, and appreciation for diverse perspectives and methodologies.



Promoting interdisciplinary learning:

Providing opportunities for faculty and students to develop the skills and knowledge necessary to engage effectively in Inter Disciplinary Research.

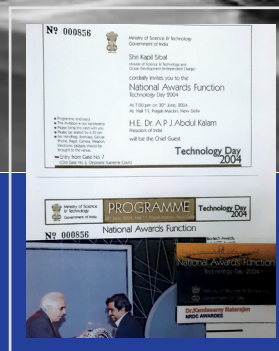


GOPALAN

COLLEGE OF ENGINEERING AND MANAGEMENT

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015



Prof. Dr K Natarajan Distinguished scientist- National Award winner and Principal scientist of GCEM heading the R&D.

Research and development enables the systematic process of investigating, experimenting, and innovating to create new products, processes, or technologies.

GCEM emerged as one of the fore front Engg colleges pioneered in research activities. Along with departmental research centres such as Aeronautical Engg/Computer science/Electronics and communication Engg. It inaugurated a new multidimensional research centre called as Inter Disciplinary Innovative Research Centre.(IDIRC)

This research centre is opened to all the students of various branches of engg and faculty. Collaborative research activities are engaged.



GOPALAN

COLLEGE OF ENGINEERING
AND MANAGEMENT

Whitefield, Bengaluru

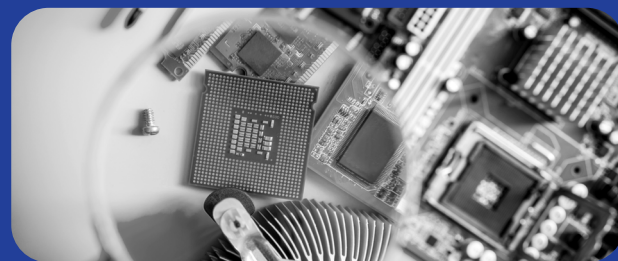
Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015

Consultancy

Solutions for problems in Industries



Aerospace and Defence



Electronics and Semiconductors



Energy and Utilities



Polymers and Plastics Technology



Chemicals and Materials Science



Environmental science and
sustainability



Construction Materials and
Engineering



Machine Learning and
Artificial Intelligence



GOPALAN

COLLEGE OF ENGINEERING
AND MANAGEMENT

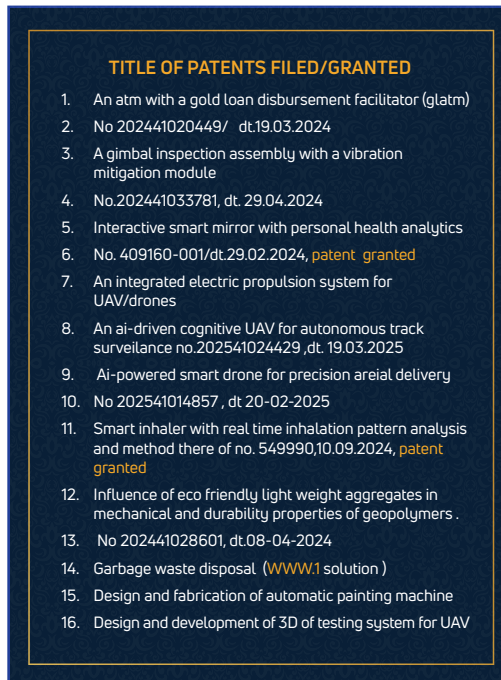
Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015

R & D Initiated Commercial Project



Gold loan
facilitated atm



Patent filed
No. 202441020449



Project is in
progress

Special Advantages

- ❖ 24/7 hrs Gold loan availability to all the people
- ❖ Few minutes process to get loan through ATM
- ❖ ATM with Geo-tag will be placed in all Bank lounges, Hospitals, Public places (Bus station/Railway stations/Airports and Govt. establishments etc.)



GOPALAN

**COLLEGE OF ENGINEERING
AND MANAGEMENT**

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015



Gold Loan Facilitated ATM



GOPALAN

COLLEGE OF ENGINEERING AND MANAGEMENT

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B+ grade by NAAC ISO 9001:2015



Innovative Project

Gold Loan Facilitated ATM

Prof.Dr.Shankar prasad, IIT Gauhati, Prof.Dr H S Bhatia
singh, former Director DRDO visited IDIRC and inspected
Gold loan facilitated ATM on 04-03-2025



GOPALAN

**COLLEGE OF ENGINEERING
AND MANAGEMENT**

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B+ grade by NAAC ISO 9001:2015



NBA chairman visited IDIRC inspecting Gold Loan facilitated ATM

21-03-2025



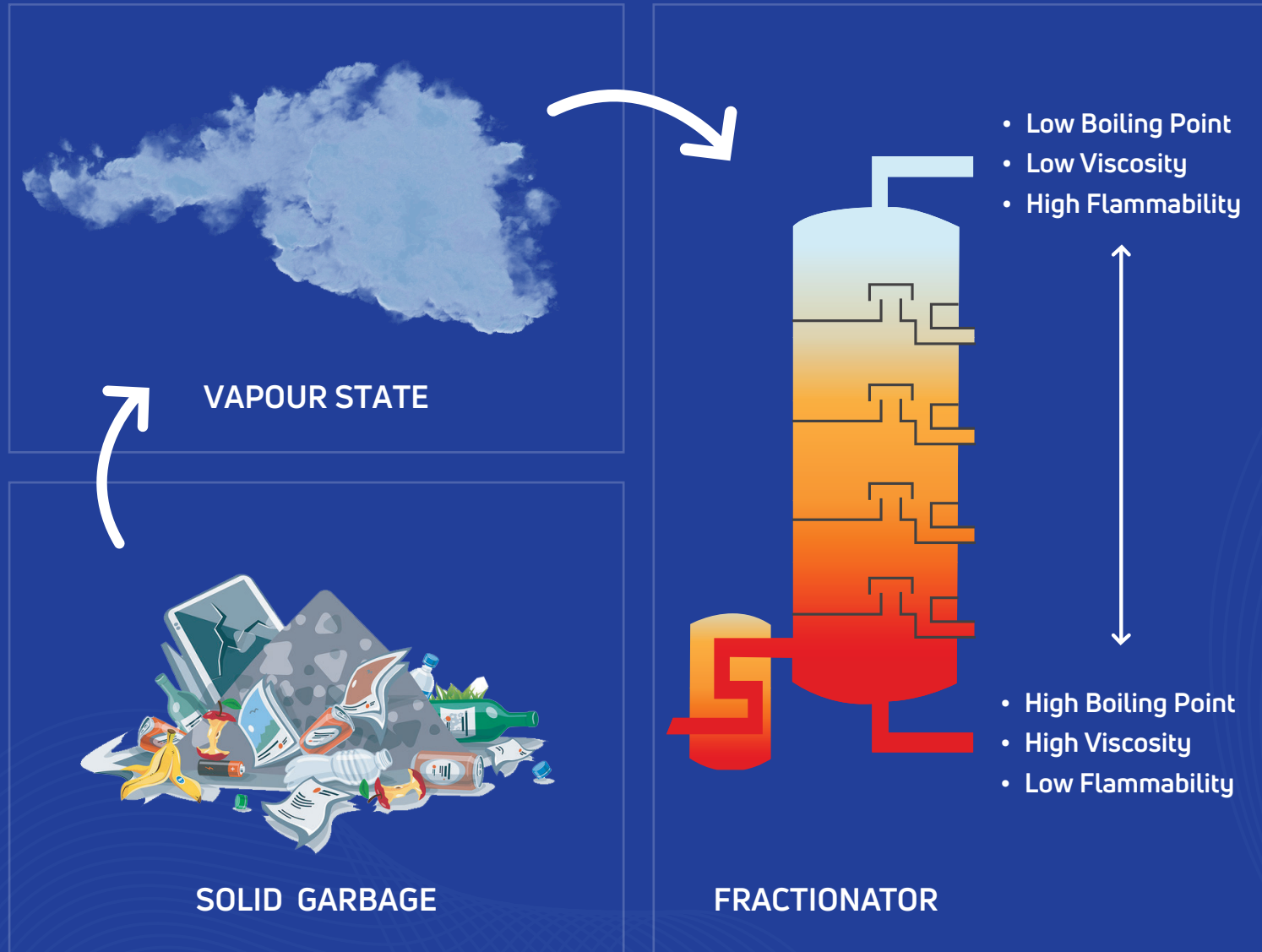
GOPALAN

COLLEGE OF ENGINEERING
AND MANAGEMENT

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B-grade by NAAC ISO 9001:2015

Waste-Wealth-Welfare



Concept

Converting waste solid phase amorphous garbage into liquid phase products of commercial values, without polluting environment of Air/Soil/Water.

One time / One stroke/ One place - solution for the disposal of garbage wastes (Domestic/non metal industry including medical wastes) without polluting environment. Patent filed.



GOPALAN

COLLEGE OF ENGINEERING
AND MANAGEMENT

Whitefield, Bengaluru

Approved by AICTE and Affiliated to Visvesvaraya Technological University (VTU), Belgaum
Accredited with B+ grade by NAAC ISO 9001:2015

Innovative Research Club of Students (IRCS)



IRCS Activities

- ❖ Students of various disciplines interact together on research projects.
- ❖ A team culture with collaborative research work.
- ❖ Knowledge sharing.
- ❖ Together achieving an ambitious goal.
- ❖ Arranging programs oriented towards innovations.
- ❖ Research culture activities include theatre fest on research.