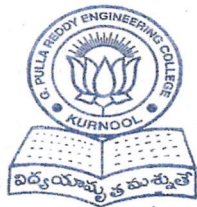


Sustainable Development Goals (SDGs) Policy



**G. Pulla Reddy Engineering College
(Autonomous)**

Kurnool – 518007



Sustainable Development Goals (SDGs) Policy

Embedding the Sustainable Development Goals (SDGs) in Outcome-Based Education, Institutional Governance & Community Action

1. Preamble

G. Pulla Reddy Engineering College (GPREC), established in 1984–85 under the aegis of the G. Pulla Reddy Charities Trust, is committed to delivering quality technical education while fostering social responsibility and sustainable development. Inspired by the vision of its founder, Late Sri G. Pulla Reddy Garu, the institution integrates ethical values, community service, and environmental consciousness into its academic ecosystem.

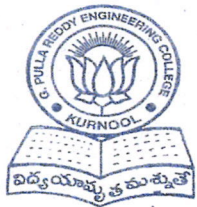
Educational institutions are no longer just centres of academic instruction — they are active contributors to sustainable societal transformation. Recognising this imperative, GPREC aligns its policies, academic practices, research initiatives, and outreach programs with all 17 United Nations Sustainable Development Goals (UN SDGs), structured within the globally recognised 5P framework: People, Planet, Prosperity, Peace, and Partnerships.

This policy reaffirms that Outcome-Based Education (OBE) — the foundational pedagogy of GPREC — provides the ideal framework to embed SDGs into what students learn, how they apply knowledge, and who they become as graduates. As the guiding principle of this policy states:

"If OBE asks 'What should students become?', SDGs help answer: 'What should the world look like because of them?'"

2. SDG Strategic Framework — The 5P Pillars

GPREC organises its sustainability mandate around the five core pillars of the UN SDG architecture — the 5Ps. These pillars go beyond technical solutions: they define the moral, environmental, and social compass of all institutional advancement.



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Focus	SDGs	GPREC College-Level Application	Focus
People	Equity, health, education	SDG 3, 4, 5, 6	Inclusion policies, gender cell, mental health support
Planet	Environment, biodiversity, climate	SDG 7, 12, 13, 14, 15	Green campus, energy audits, sustainability labs
Prosperity	Jobs, economy, infrastructure	SDG 8, 9, 10	Entrepreneurship, industry linkages, innovation centres
Peace	Justice, rights, governance	SDG 16	Ethics education, grievance cells, civic engagement
Partnerships	Collaboration, global cooperation	SDG 17	MoUs, joint projects, global academic alliances

2.1 Pillar 1 — People: Ensuring Human Dignity and Equity

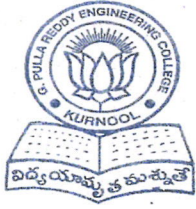
The People pillar aims to end poverty and hunger and ensure that all human beings can fulfil their potential in dignity, equality, and health. At GPREC, this translates into inclusive access to education, gender-sensitive policies, mental health support, and community health initiatives aligned with SDGs 3, 4, 5, and 6.

2.2 Pillar 2 — Planet: Protecting Earth's Resources

The Planet pillar focuses on safeguarding Earth's ecosystems, biodiversity, and natural resources. GPREC's green campus initiatives — solar energy, rainwater harvesting, waste management, and biodiversity gardens — directly address SDGs 7, 12, 13, 14, and 15. Every engineering discipline is expected to reflect ecological responsibility.

2.3 Pillar 3 — Prosperity: Advancing Economic and Technological Well-being

Prosperity ensures that economic, social, and technological progress occurs in harmony with nature. GPREC aligns with SDGs 8, 9, and 10 through entrepreneurship



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cells, industry collaboration, innovation hubs, inclusive admissions, and career-readiness programmes that prepare graduates for the green economy.

2.4 Pillar 4 — Peace: Fostering Justice and Social Stability

The Peace pillar envisions a world of justice, rule of law, and freedom from violence. GPREC executes SDG 16 through mandatory professional ethics education, anti-ragging systems, grievance redressal mechanisms, and civic engagement initiatives that build transparent, accountable institutional culture.

2.5 Pillar 5 — Partnerships: Building Global and Local Alliances

The Partnerships pillar emphasises collaboration between governments, academia, civil society, and industry. GPREC drives SDG 17 through active MoUs, inter-institutional research, NSS-led community programs, and engagement with national missions such as Unnat Bharat Abhiyan and Smart India Hackathon.

3. Embedding SDGs in the OBE Ecosystem

OBE is not just about outcomes — it is about impact. GPREC integrates SDGs across seven dimensions of its institutional ecosystem, transforming the campus into a live SDG laboratory:

3.1 Curriculum

- Core subjects mapped to SDG-aligned themes — e.g., SDG 6 (Water) in Environmental Studies, SDG 7 (Energy) in Electrical Engineering.
- Dedicated SDG electives introduced — e.g., 'Sustainability in Engineering', 'Technology for Social Good', 'Circular Economy Principles'.
- Capstone and final-year projects aligned to at least one SDG challenge, assessed with sustainability metrics.

3.2 Teaching–Learning Process

- Problem-Based Learning (PBL): Assignments framed around SDG scenarios—urban poverty, waste management, clean water access, rural energy.
- Case Studies: Real-world SDG implementation successes and failures analysed across engineering disciplines.



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- Interdisciplinary Modules: Engineering combined with social sciences — e.g., clean energy adoption in rural India merges technology with sociology.

3.3 Assessment

- Evaluations designed to test ability to analyse complex problems through the SDG lens.
- Reflective understanding of ethical and ecological impact assessed in project reports and vivas.

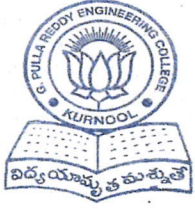
3.4 Campus Operations — GPREC as a Live SDG Lab

GPREC transforms its campus into a living demonstration of SDG principles. The Green Campus Committee monitors, reports, and continuously improves performance across all dimensions:

Campus Area	Linked SDGs	SDG Practice at GPREC
Energy	SDG 7, 13	Solar panels, energy audits, smart metering
Waste	SDG 11, 12	Composting, recycling stations, e-waste management
Food	SDG 2, 12	Sustainable cafeteria practices, food waste reduction
Diversity	SDG 5, 10	Equal access programs, disability-friendly facilities
Water	SDG 6	RO systems, rainwater harvesting, wastewater treatment
Procurement	SDG 8, 12	Ethical and local sourcing; green purchasing policy
Research	SDG 9, 17	SDG-aligned grant applications, incubation cell support

3.5 Student Activities and Clubs

- SDG-focused student clubs constituting Co-academic Activities (IEEE, IEI, ISTE, CSI, ETC.) and Extra Academic activities (Literary and cultural forums, Media clubs)



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- Hackathons and debates organised around global sustainability issues (Coders Club).
- NSS and VSC (service) and Extension activity forums formally link outreach activities to specific SDG targets.
- Social Entrepreneurship Competitions aligned with SDG-driven innovation themes (Centre for Innovation and Entrepreneurship).

3.6 Research and Innovation

- Faculty and student research encouraged in SDG-linked areas: sustainable construction, gender policy impact, clean energy, rural health.
- Incubation cell (EDC) supports startups solving SDG-linked problems with frugal innovation and circular economy models.
- Grant applications targeted at DST, AICTE, MSME, and DBT for sustainability-focused research funding.

3.7 Stakeholder Engagement

- Partnerships with NGOs, local government bodies, and social enterprises formalised through SDG-aligned MoUs.
- Community Service Projects in adopted villages: digital literacy, menstrual hygiene awareness, clean water, and skill development.
- SDG alignment explicitly included in industry MoU frameworks and collaboration agreements.

4. SDG Action Plan — Initiatives, OBE Integration & Targets

The following table maps each of the 17 UN SDGs to GPREC's institutional initiatives, OBE-based academic and research integration activities, and key performance targets. SDGs are colour-coded by 5P Pillar for ease of reference.



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PEOPLE

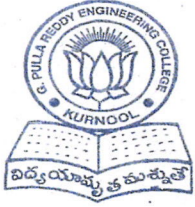
PLANET

PROSPERITY

PEACE

PARTNERSHIPS

SDG & Pillar	GPREC Institutional Initiatives	OBE & Academic Integration	Key Performance Targets
SDG 1 No Poverty <i>[People]</i>	• Tree plantation & NSS green drives • Collaboration with local bodies on green cover	• Climate policy & mitigation in Environmental Studies • Interdisciplinary climate solution projects	• Annual plantation & campus biodiversity register • Climate education in 1+ course per programme
SDG 2 Zero Hunger <i>[People]</i>	• Anti-ragging cell, grievance redressal • ICC for gender justice • Ethics modules & civic engagement	• Professional Ethics mandatory in all UG programmes • Cybersecurity & Constitution as electives	• Zero ragging, 100% UGC compliance • Legal literacy workshops • Annual governance & grievance report
SDG 3 Good Health & Well-being <i>[People]</i>	• EWS scholarships & financial aid • Village adoption via Unnat Bharat Abhiyan • Employability skill training	• Rural development student projects • Affordable engineering solutions as capstone themes	• Livelihood projects in adopted villages • 5+ poverty-alleviation tech projects/year
SDG 4 Quality Education <i>[People]</i>	• Food distribution via trust institutions • Sustainable cafeteria, reduced food waste	• IoT smart agriculture as elective projects • Collaboration with rural/agri communities	• 30% food waste reduction in cafeteria • 2 smart agriculture projects/year
SDG 5 Gender Equality	• Health camps, blood donation drives	• POs mapped to healthcare ethics • PBL on rural health challenges	• 3+ health camps/year • Mental health support for all students



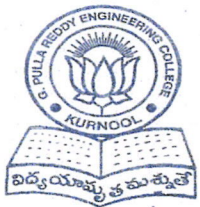
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SDG & Pillar	GPREC Institutional Initiatives	OBE & Academic Integration	Key Performance Targets
[People] SDG 6 Clean Water & Sanitation [People]	• Free dispensary & mental health counselling • Hygiene & nutrition awareness sessions • OBE with MOOCs, NPTEL & virtual labs • Skill workshops, hackathons, faculty training	• PEOs/POs aligned to lifelong learning • Attainment tools beyond just marks • Adaptive teaching for differently-abled students	• Capstone projects on low-cost health devices • CO attainment across all programmes • Increase MOOC/NPTEL enrolments • Digital literacy in 3+ rural schools/year
SDG 7 Affordable & Clean Energy [Planet]	• Women's Cell & WIE programs • Gender sensitization & women's leadership • ICC, safe campus policy & mentorship	• Graduate attributes include gender equity • Gender sensitization in curriculum	• Female enrolment above 30% • Improved Gender sensitization programs.
SDG 8 Decent Work & Economic Growth [Prosperity]	• Campus placement cell • EDC supporting student start-ups • Financial literacy & workplace ethics workshops	• POs include employability & entrepreneurship • Industry live projects & internships in final year • Capstone projects on local economy problems	• Improve placement rate & quality • Incubate more start-ups via EDC • Annual industry-connect events



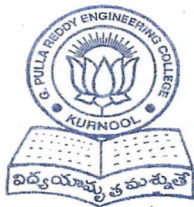
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SDG & Pillar	GPREC Institutional Initiatives	OBE & Academic Integration	Key Performance Targets
SDG 9 Industry, Innovation & Infrastructure <i>[Prosperity]</i>	• Research publications & patents • Innovation hubs & prototype facilities • Smart India Hackathon, AICTE IDEA Lab	• Design Thinking in core courses • Industry-partnered live projects • POs mapped to infrastructure & smart systems	• 5+ patents & 20+ papers/year • 1 new industry-funded lab/year • National innovation competition participation
SDG 10 Reduced Inequalities <i>[Prosperity]</i>	• SC/ST/OBC reservations & scholarships • Disability-friendly infrastructure • Bridge courses for first-generation learners	• Inclusive tech research encouraged • Graduate attributes include equity & social responsibility	• Improve bridge/remedial programs for at-risk students
SDG 11 Sustainable Cities & Communities <i>[Planet]</i>	• MoUs with industries, IITs, NITs, govt bodies • AICTE IDEA Lab, SIH, Unnat Bharat Abhiyan • Alumni network for mentorship & funding • NGO engagement & village outreach	• Interdisciplinary SDG-linked research • NSS/UBA field research as project-based learning • Lab innovations deployed to communities as capstone	• Active MoUs annually • Externally funded research projects • Contribute SDG data to NIRF & QS rankings • Annual NGO/govt SDG outreach partnerships
SDG 12 Responsible Consumption & Production <i>[Planet]</i>	• RO systems & sewage treatment on campus • 8 rainwater harvesting units • Water conservation drives in villages	• Environmental Studies covers water management • Projects on water purification & wastewater • PBL on AP water scarcity scenarios	• Student projects on water solutions • Annual water literacy campaigns in UBA villages



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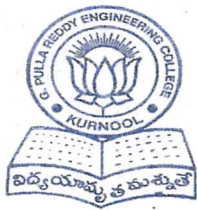
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SDG & Pillar	GPREC Institutional Initiatives	OBE & Academic Integration	Key Performance Targets
SDG 13 Climate Action <i>[Planet]</i>	• Solar installations across campus • Annual green energy audits • Energy-efficient lighting & equipment	• Electives on solar tech & smart grids • Student projects on rural green energy • Solar-powered labs & hostels as live labs	• Increase solar share of campus energy • Annual audit with published report • Support renewable energy student projects
SDG 16 Peace, Justice & Strong Institutions <i>[Peace]</i>	• Green campus: plantation, eco infra, zero-waste • NSS monitors & improves SDG performance	• Smart city & waste management final-year projects • Sustainable urbanisation in curriculum	• Achieve Green Campus status • Reduce non-renewable energy dependency
SDG 17 Partnerships for the Goals <i>[Partnerships]</i>	• Waste segregation & recycling on campus • Single-use plastic reduction • Composting of cafeteria organic waste	• Circular economy in engineering design courses • Research on sustainable materials	• Reduce landfill waste via recycling & composting • Plastic-free campus campaigns

5. SDG Governance Structure

To ensure effective, transparent, and accountable implementation, GPREC establishes a dedicated SDG Committee. This committee oversees curriculum integration, campus sustainability, community outreach, and SDG reporting:



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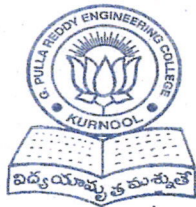
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Role	Designation	Responsibilities
Chairperson	The Principal	Strategic oversight, final policy approval, and institutional accountability for SDG targets
SDG Coordinator	Senior Faculty Member	Data aggregation, reporting, monitoring of KPIs, and SDG-OBE curriculum mapping
Academic Lead	Dean Academics	Curriculum SDG integration, OBE alignment, and assessment reform
Sustainability Officer	Maintenance / Project Manager	Green campus operations, energy audits, waste management, and infrastructure targets
Community Outreach Lead	NSS Program Officer	Village adoption, UBA activities, social drives, and community SDG impact measurement
Research Lead	Dean Research & Consultancy	SDG-aligned research, patent facilitation, grant applications, and incubation support
External Member	Industry Expert / NGO Representative	Independent validation, guidance on partnerships, and stakeholder engagement

6. Implementation & Monitoring Framework

GPREC adopts a structured, KPI-driven monitoring framework to ensure accountability, continuous improvement, and alignment with national accreditation standards:

Mechanism	Description
Quarterly SDG Review	SDG Committee meets quarterly to assess progress, resolve gaps, and update action plans by pillar.
Annual SDG Performance Report	Comprehensive report covering KPI outcomes, OBE attainment, campus sustainability metrics, and community impact.
Accreditation Integration	SDG metrics integrated into NBA, NAAC, and NIRF self-study reports; OBE attainment data used for SDG correlation.
KPI-Based Monitoring	Quantitative tracking across placements, research output, patents, community outreach, and green campus indicators.



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7. Expected Outcomes

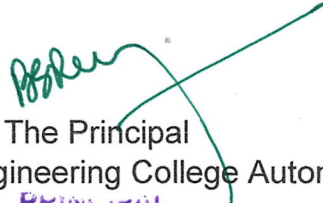
Through systematic implementation of this SDG Policy, GPREC aims to achieve the following measurable outcomes:

- SDG-integrated OBE curriculum across all engineering programmes, with explicit CO–SDG mapping.
- Students graduating with documented SDG-linked project experience and measurable societal contribution.
- Increased faculty research addressing real-world sustainability challenges with external funding.
- Green Campus certification with audited reductions in energy, water, and waste metrics.
- Measurable community upliftment in adopted villages through UBA and NSS-driven SDG projects.
- GPREC to be ranked high in national sustainability and institutional rankings (NIRF).

8. Conclusion

GPREC reaffirms its unwavering commitment to sustainable development by embedding the United Nations Sustainable Development Goals into every institutional dimension — curriculum design, research, campus operations, student life, and community engagement. By uniting the OBE framework with the 5P pillars of the SDG agenda, GPREC commits to producing graduates who are not merely job-ready, but world-ready — engineers, innovators, and leaders who ask not just 'Can this be built?' but 'Should it be built, and for whose benefit?'

This policy shall be reviewed annually and updated to reflect emerging sustainability priorities, accreditation requirements, technological advancements, and the evolving needs of the communities GPREC serves.


The Principal

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PRINCIPAL

**G. Pulla Reddy Engineering College
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