

# JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution)

Approved by AICTE & Affiliated to Anna University

Accredited by NBA & NAAC with 'A' Grade

## SUSTAINABILITY COMMITTEE

NAME	DESIGNATION	POSITION
Dr.M.Mala	Chairperson, Jerusalem Educational Trust	<b>Chief Patron</b>
Dr.Ramesh S	Principal	<b>Patron</b>
Dr.N.John Jebarathinam	Dean – IQAC/AAA	<b>Coordinator</b>
Dr.P.Anuradha	Dean – Academics	Member (SDG – Quality Education)
Dr.P.Gnanasivam	Dean – IR & TBI	Member (SDG – Industry, Innovation & Infrastructure)
Dr.K.Sundaramoorthy	Dean – Admissions & HoD – IT	Member (SDG – Sustainable Cities & Community)
Dr.V.Jamuna	Dean – Student Affairs	Member (SDG – Peace, Justice & Strong Institution)
Dr.S.Arun	Dean – Research	Member (SDG – Decent Work & Economic Growth)
Dr.J.Samuel Manoharan	HoD – BME	Member (SDG – Life Below Water)
Dr.R.Balaraman	HoD Incharge – CE	Member (SDG – Life On Earth)
Dr.S.Vinod	HoD – EEE	Member (SDG – Affordable & Clean Energy)
Dr.P.K.Kishore Kumar	HoD – S&H	Member (SDG – Climate Action)
Dr.G.Merlin Sheeba	Professor – ECE	Member (SDG – Reduced Inequalities)
Ms.S.Bhavanisankari	Associate Professor – ECE	Member (SDG – Gender Equality)
Dr.D.Sudhagar	Associate Professor – IT	Member (SDG – Responsible Consumption & Production)
Mr.A.Sargunraj	Assistant Professor – CE	Member (SDG – Clean Water & Sanitation)
Mr.J.Jayachandran	Assistant Professor – S&H (General Engineering)	Member (SDG – No Poverty)
Mr.B.Arulkumar	Assistant Professor – S&H (General Engineering)	Member (SDG – Zero Hunger)
Mr.L.N.Narayanan	Assistant Professor – S&H (Mathematics)	Member (SDG – Good Health & Well Being)
Mr.B.Karthikeyan	Head – Placement and Training	Member (SDG – Partnership for the Goals)
Dr.D.Parameswari	Associate Dean – AAA& HoD – AI&ML	<b>Member Secretary</b>

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The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future. At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests

## 1. No Poverty

With a projected global poverty rate of 7% in 2030, this UN goal aims to end poverty of all kinds.

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SDG Goal 1 objectives include but are not limited to: End extreme poverty, reduce half the population living in poverty, implement protection systems, ensure equal rights to economic resources and basic services, reduce poverty-related vulnerability to climate change-induced extreme weather events, mobilize resources in developing countries, and create pro-poor and gender-sensitive policy frameworks by 2030.

## 2. Zero Hunger

As of 2020, 2.37 billion people are without food or unable to eat a healthy balanced diet, hence the goal of zero hunger.

**SDG Goal 2 Objectives:** End hunger, end all forms of malnutrition, double agricultural productivity and the income of small-scale food producers, bring resilience to agricultural practices and found sustainable food production systems, and maintain genetic food diversity.

## 3. Good Health and Well-Being

With a focus on increasing life expectancy and reducing common child and maternal diseases and killers, this goal targets ensuring healthy lives and promoting well-being for all ages. The global pandemic has only made health disparities more apparent, halting and even reducing life-expectancy progress.

**SDG Goal 3 Objectives:** Reduce maternal mortality, end preventable newborn and child death, end multiple disease epidemics, reduce premature mortality, prevent and treat substance abuse, halt traffic-related deaths and injuries, ensure universal health coverage and access, reduce pollution and contamination deaths.

## 4. Quality Education

This goal ensures inclusive and equitable quality education and promotes lifelong learning for all.

**SDG Goal 4 Objectives:** Ensure free and quality primary and secondary education, give children access to early childhood development, ensure equal access for men and women to afford higher education choices, increase skills in youth, ensure gender equality, and promote sustainable development in education.

## 5. Gender Equality

SDG 5 targets to achieve gender equality and empower all women and girls. The percentage of women who work in national parliaments, local governments, and in managerial positions is still significantly less than that of men. Not to mention 1 in 3 women are subject to violence at least once since the age of 15, and child marriage is still highly present.

**SDG Goal 5 Objectives :** End discrimination against women, eliminate all forms of violence against women, eliminate harmful practices, value unpaid care and domestic work, ensure equal opportunities for leadership, ensure access to feminine health care, and ensure equal rights.

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## 6. Clean Water and Sanitation

The availability and sustainable management of water and sanitation ensures safe water for drinking, sanitation, and hygiene, yet 2.3 billion people live in water-stressed countries.

**SDG Goal 6 Objectives** : Provide equal universal access to safe drinking water, sanitation, and hygiene, reduce water pollution, increase water-use efficiency, integrate water-resource management, and protect ecosystems dependent on water.

## 7. Affordable and Clean Energy

Almost 800 million people lack access to electricity and 1/3 of the population uses dangerous cooking systems. This puts into perspective why this goal aims to ensure affordable, reliable, sustainable, and modern energy.

**SDG Goal 7 objective**: Increase renewable energy use, improve energy use efficiency, enhance international cooperation regarding clean energy access, research, and technology, and to upgrade technology in developing countries for sustainable energy services.

## 8. Decent Work and Economic Growth

Especially after the global pandemic, joblessness and unemployment is extremely prevalent, making this goal of promoting sustained, inclusive, and sustainable economic growth and productive employment and decent work ever more important.

**SDG Goal 8 Objectives**: Sustain economic growth, increase economic productivity, improve resource efficiency, achieve full and productive employment, increase working youth population, end forced labor, protect labor rights, promote tourism, and grant access to financial institution access for all.

## 9. Industry, Innovation, and Infrastructure

Resilient infrastructure, inclusive and sustainable industrialization, and innovation is the objective of this sustainable development goal. Enhancing rural road connectivity, increasing research and development investment, and manufacturing high tech products helps stabilize infrastructure.

**SDG Goal 9 objectives**: Reliable infrastructure for all, sustainable industrialization, increased access of small-scale industries and enterprises in developing countries, rendering industries sustainable, and improving technology in all industries.

## 10. Reduced Inequalities

This sustainable development goal focuses on reducing inequalities within and among countries. Income inequality, the refugee crises, and inequality indexes all show that certain areas and countries are highly more beneficial to live in than others. Living standards between countries are very unbalanced.

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**SDG Goal 10 Objectives:** Income growth for the bottom 40 percent of the population at a higher than national average rate, social, economic, and political inclusion, appropriate legislation policies to reduce inequality, wage and fiscal equality, better financial market and institution regulation, legitimate institutions that represent developing countries in global decisions, and safe migration.

## 11. Sustainable Cities and Communities

This goal promotes making cities and human settlements safer, resilient, and sustainable through use of national urban policies, more access to public spaces, convenient public transportation, and the reduction of slums.

**SDG Goal 11 Objectives :** Safe and affordable housing for all, safe and affordable transport for all, sustainable urbanization and human settlement planning, protect cultures around the world, protecting the poor and vulnerable from death by natural disasters, monitoring air quality and waste management to reduce negative city impact, and to provide green public space.

## 12. Responsible Consumption and Production

Ensuring sustainable consumption and production patterns, as a goal, aims to reduce climate change and negative environmental impacts.

**SDG Goal 12 objectives:** Implementing a 10-year framework program for sustainable development and consumption, achieving sustainable management, having food waste, managing chemicals and waste in an environmentally responsible way, reduce waste, encourage company sustainable practices, sustainable public procurement practices, and providing access to relevant sustainable development and harmony with nature information.

## 13. Climate Action

Climate action is a goal involving the fight against climate change and its impacts. Rising greenhouse gas emissions, an average global temperature increase, and increased spending due to climate change are all negative results of climate change.

**SDG Goal 13 objectives:** Being prepared for climate related disasters, integrating climate policies into national policies, and raising climate awareness.

## 14. Life Below Water

The Life Below Water goal focuses on conserving and sustainably using our oceans, seas and marine resources for sustainable development. We, as a population, rely heavily on our oceans for food, tourism, recreational activities, and global trade. In fact, 3 billion people rely on the ocean for their livelihood. However, our oceans are under severe threat. Over half of key marine biodiversity areas are unprotected, and dead zones, zones lacking oxygen to support marine life, are rising. It is thus imperative we protect our oceans better.

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**SDG Goal 14 objectives:** Preventing marine pollution, protecting marine and coastal ecosystems, minimizing ocean acidification through impact reduction, protecting the fishing market, conserving marine and coastal areas, and overfishing control.

## 15. Life on Land

This goal overall promotes the health of land life. It includes protecting, restoring, and promoting land ecosystems, managing forests sustainably. Combating desertification and halting and reversing land degradation and biodiversity loss. With many species under threat and ever-increasing biodiversity loss, it is essential we take better care of land ecosystems.

**SDG Goal 15 objective:** Ensuring freshwater ecosystem health, sustainable management of forests, ensuring mountain ecosystem health, preserving natural habitats, shared benefits of genetic resource use, ending poaching and protected species trafficking, and integrating biodiversity values into national planning.

## 16. Peace, Justice, and Strong Institutions

This goal involves reducing conflict, insecurity, and weak institutions by means of promoting peace and inclusivity for sustainable development and justice for all.

**SDG Goal 16 objectives:** Reduce violence and death rates, end all forms of violence against children, promote law at national and international levels, reduce financial crime, reduce corruption, develop transparent institutions, developing country participation in global governance institutions, legal identity for all, and ensuring public access to information and freedom rights.

## 17. Partnership for the Goals

This last goal aims to help realize strong partnership and global cooperation for the SDGs.

**SDG Goal 17 objective:** Enhance developing country international support, enhancing international cooperation, promote environmentally sound technologies, rule-based and equitable multilateral trading system, increase developing country exports, enhance global economic stability, and coherent sustainable development policy.