

Matoshri College of Engineering and Research Centre (MCERC)

Our commitment to the United Nations' Sustainable Development Goals



The 17 Sustainable Development Goals (SDGs) are a set of goals that aim to transform the world. They were adopted by all United Nations Member States in 2015 as part of the 2030 Agenda for Sustainable Development.

The 17 SDGs are:	
1. End poverty 2. End hunger 3. Ensure healthy lives 4. Ensure quality education 5. Achieve gender equality 6. Ensure access to water and sanitation 7. Ensure access to affordable energy 8. Promote economic growth	9. Build infrastructure 10. Reduce inequality 11. Make cities sustainable 12. Ensure sustainable consumption 13. Take action on climate change 14. Conserve marine resources 15. Life on land 16. Peace, justice, and strong institutions 17. Partnerships for the goals

3 Pillars of Sustainability: Environmental, Social and Economic

Sustainability is a holistic approach to development that seeks to meet present needs without compromising the ability of future generations to meet their own. Higher Education Institutions (HEIs) play a pivotal role in fostering sustainable development by integrating sustainability principles into education, research, innovation, governance, and community engagement. A sustainable institution creates value not only through academic excellence but also by promoting environmental stewardship, social responsibility, and economic resilience.

The **Three Pillars of Sustainability—Environmental, Social, and Economic**—provide a comprehensive framework for institutional planning and decision-making. These pillars are interdependent and collectively support long-term institutional growth, responsible resource utilization, inclusive development, and financial sustainability.

For Matoshri College of Engineering and Research Centre, the adoption of these three pillars will guide strategic initiatives toward creating a green campus, nurturing socially responsible graduates, strengthening industry and community partnerships, promoting innovation and entrepreneurship, and ensuring efficient utilization of financial and physical resources. By embedding sustainability across all academic and administrative functions, the institution aims to contribute meaningfully to national priorities, the United Nations Sustainable Development Goals (SDGs), and its vision of **establishing omnipotent learning centre** and evolving as a "**Lighthouse for the Society**."

Environmental Sustainability

Environmental sustainability is the ability to preserve and protect the natural environment over time through appropriate practices and policies, meeting present needs without compromising the availability of resources in the future.

SDG 6: Clean Water and Sanitation

SDG 7: Affordable and Clean Energy

SDG 12: Responsible Consumption and Production

SDG 13: Climate Action

SDG 14: Life Below Water

SDG 15: Life on Land

Social Sustainability

Social sustainability aims to create inclusive societies, reduce inequality, and ensure long-term well-being for all people while preserving social cohesion and justice.

SDG 1: No Poverty

SDG 2: Zero Hunger

SDG 3: Zero Health and Well-Being

SDG 4: Quality Education

SDG 5: Gender Equality

SDG 10 Reduced Inequalities

SDG 11: Sustainable Cities and Communities

SDG 16: Peace, Justice and Strong Institutions

Economic Sustainability

Economic sustainability is the approach whereby economic activities are conducted in such a way as to preserve and promote long-term economic well-being. In practice, it aims to create a balance between economic growth, resource efficiency, social equity and financial stability with the help of technology and research.

SDG 8: Decent Work and Economic Growth

SDG 9: Industry, Innovation and Infrastructure

SDG 17: Partnerships for the Goals

MCERC is committed to driving positive impacts for people and planet, working to address the global challenges set out in the United Nations' (UN) 17 Sustainable Development Goals (SDGs). Our commitment to deliver the Goals in the context of our institution will inspire, celebrate and enhance the critical role that education has in delivering the SDGs.

Institutional Level Implementation of Sustainable Development Goals

The Sustainable Development Goals (SDGs) are a working agenda for the international community to ensure a better world for future generations. Colleges should implement SDGs to help address global challenges and prepare students to be future leaders. They are important for students because they help students develop critical thinking skills, understand complex issues, and become responsible global citizens.



SDG 1: End Poverty in all its Forms Everywhere

MCERC is committed to promoting equitable access to quality technical education by empowering students from economically weaker and socially disadvantaged sections of society. Through scholarships, financial assistance, skill development, and inclusive support systems, the Institute strives to enhance educational opportunities, improve employability, and contribute to sustainable poverty reduction while fostering social equity and community development.

Strategic Plans & Initiatives:

- Ensure equitable access to quality technical education for students from economically weaker and underprivileged backgrounds through supporting scholarships, fee installments, and Earn-Learn Schemes.
- Improve academic performance, retention, and graduation rates to weaker students by providing mentoring, learning support, and career guidance.

- Strengthen skill development, employability, entrepreneurship, and innovation initiatives to enhance students' economic self-reliance and livelihood opportunities through training and placement cell.
- Encourage research, consultancy, extension activities, and community outreach programs addressing poverty alleviation, rural development, and socio-economic-techno empowerment.
- Promote inclusive campus policies that provide equal opportunities, student welfare services, and holistic support for economically weaker learners.

2 ZERO HUNGER



SDG 2: End Hunger, Achieve Food Security and Improved Nutrition and Promote Sustainable Agriculture

MCERC is committed to fostering a healthy, inclusive, and sustainable campus where every student has access to safe, nutritious food and opportunities to lead a healthy life. Through awareness, community engagement, responsible resource utilization, and sustainable practices, the Institute aims to contribute to food security, nutrition, and sustainable agricultural development in alignment with the Sustainable Development Goals.

Strategic Plans & Initiatives:

- Ensure access to safe, nutritious, and affordable food for students, particularly with low cost.
- Promote awareness of balanced nutrition, healthy dietary practices, and food security through academic programs, workshops, health campaigns, and extension activities.
- Encourage sustainable food systems by minimizing food waste, promoting responsible consumption, and adopting environmentally sustainable campus practices.
- Support research, innovation, and multidisciplinary projects addressing sustainable agriculture, food technology, water conservation, and climate-resilient farming practices.
- Collaborate with farmers, government agencies, NGOs, industries, and local communities to promote sustainable agriculture, food security, and rural development initiatives.

3 GOOD HEALTH AND WELL-BEING



SDG 3: Ensure Healthy Lives and Promote Well-Being for All at All Ages

MCERC, as part of a multidisciplinary campus with Ayurveda, Pharmacy, and Homeopathy institutions, is committed to promoting holistic health, preventive healthcare, and overall well-being. By leveraging interdisciplinary expertise, healthcare services, and community outreach, the Institute strives to foster a healthy campus environment and contribute to improved public health and quality of life.

Strategic Plans & Initiatives:

- Promote the physical, mental, emotional, and social well-being of students, faculty, and staff through wellness programs, yoga, sports, counseling services, and stress management initiatives.
- Facilitate access to quality healthcare, preventive care, health awareness programs, and emergency medical support through collaboration with the Ayurveda, Pharmacy, and Homeopathy institutions on the campus.
- Organize regular health check-up camps, blood donation drives, organ donation awareness programs, nutrition awareness, and preventive healthcare initiatives for the campus and surrounding communities.

4 QUALITY
EDUCATION



SDG 4: Ensure Inclusive and Equitable Quality Education and Promote Lifelong Learning Opportunities for All

MCERC is committed to providing inclusive, equitable, and Quality Technical Education that empowers learners with knowledge, skills, values, and lifelong learning capabilities. Guided by its Vision and Mission, MCERC strives to foster academic excellence, innovation, ethical values, multidisciplinary learning, and industry readiness, enabling graduates to contribute effectively to sustainable development and nation-building.

Strategic Plans & Initiatives:

- Ensure inclusive, equitable, and high-quality technical education by providing equal learning opportunities for students from diverse social, economic, and cultural backgrounds.
- Implement the principles of NEP 2020, Outcome-Based Education (OBE), and multidisciplinary learning to enhance academic excellence, innovation, and holistic student development.
- Promote lifelong learning through value-added courses, professional certifications, MOOCs, internships, skill development programs, and continuous professional education.
- Strengthen curriculum design and pedagogical practices through industry collaboration, experiential learning, project-based learning, research, and emerging technologies.
- Reduce educational disparities by supporting scholarships, mentoring, bridge courses, remedial coaching, and academic support for economically and socially disadvantaged students.
- Enhance graduate employability by introducing 'Apprenticeship Embedded Degree Programme' at institute strengthening industry partnerships, entrepreneurship development, innovation ecosystems, career guidance, and placement support.
- Foster education for sustainable development, professional ethics, constitutional values, environmental responsibility, and global citizenship through curricular, co-curricular, and extension activities.

5 GENDER EQUALITY



SDG 5: Achieve Gender Equality and Empower All Women and Girls

MCERC is committed to fostering an equitable, inclusive, and gender-sensitive academic environment where every individual is provided with equal opportunities to learn, lead, innovate, and excel. With a strong representation of women among students, faculty, and institutional leadership, MCERC promotes women's empowerment through quality education, leadership development, research, entrepreneurship, and a safe and respectful campus culture.

Strategic Plans & Initiatives:

- Promote equal opportunities in admissions, academic progression, faculty recruitment, leadership positions, and professional development irrespective of gender.
- Strengthen women's participation and leadership by encouraging their active involvement in academic administration, research, innovation, entrepreneurship, decision-making bodies, and institutional governance.
- Fostering a safe, secure, inclusive, and respectful campus environment through effective implementation of gender-sensitization programs, various cells- Gender Equity Cell, Internal Complaints Committee (ICC), Equal Opportunity Cell, Anti-Sexual Harassment Committee, Women's Grievance Redressal Cell, assuring zero tolerance towards discrimination, harassment, and gender-based violence.
- Organize workshops, mentoring programs, leadership development initiatives, and awareness campaigns to enhance women's confidence, professional growth, financial literacy, and career advancement with help of these cells and NSS cell.
- Support work-life balance, employee well-being, and family-friendly institutional practices that enable women faculty and staff to excel professionally.

6 CLEAN WATER AND SANITATION



SDG 6: Ensure Availability and Sustainable Management of Water and Sanitation for All

MCERC is committed to ensuring sustainable water resource management and promoting responsible water stewardship through education, research, and community engagement. Situated near the **Odha River**, the Institute utilizes its geographical advantage to promote water quality assessment, environmental monitoring, conservation practices, and community awareness, while fostering a culture of responsible water use and sanitation.

Strategic Plans & Initiatives:

- Ensure continuous access to safe drinking water, hygienic sanitation facilities, and effective wastewater management across the campus.

- Promote water conservation through rainwater harvesting, water-efficient technologies, groundwater recharge, and responsible water usage practices.
- Encourage students and faculty to undertake water quality assessment, environmental monitoring, and community engagement projects on the Odha River and other local water resources to support evidence-based environmental management.
- Prevent water pollution by implementing proper wastewater treatment, promoting responsible disposal practices, and maintaining a clean and healthy campus environment.
- Strengthen the role of the National Service Scheme (NSS) in organizing water conservation drives, river cleanliness campaigns, sanitation awareness programs, and community outreach activities in nearby villages.
- Organize workshops, awareness campaigns, and extension activities to educate students, staff, and local communities on water conservation, sanitation, hygiene, and sustainable water resource management.

7 AFFORDABLE AND CLEAN ENERGY



SDG 7: Ensure Access to Affordable, Reliable, Sustainable and Modern Energy for All

MCERC is committed to promoting clean and sustainable energy practices by integrating renewable energy technologies, energy-efficient infrastructure, and environmental stewardship across the campus. Through initiatives such as solar photovoltaic installations, solar-powered street lighting, Green Audit practices, and energy conservation programs, MCERC strives to reduce its carbon footprint while fostering awareness, innovation, and research in sustainable energy solutions.

Strategic Plans & Initiatives:

- Ensure reliable, affordable, and sustainable energy access across the campus through efficient energy management systems and continuous infrastructure improvements.
- Increase the utilization of renewable energy by expanding solar photovoltaic systems, solar-powered street lighting, and other clean energy technologies to reduce dependence on conventional energy sources.
- Enhance energy efficiency in academic buildings, laboratories, hostels, and administrative facilities through energy-efficient equipment, LED lighting, smart energy management, and periodic energy audits.
- Strengthen institutional sustainability by implementing the recommendations of the Green Audit and promoting environmentally responsible energy practices throughout the campus.
- Encourage interdisciplinary research, innovation, and student projects in renewable energy, energy conservation, electric mobility, smart grids, and sustainable energy technologies.
- Organize awareness programs, workshops, and outreach activities to promote energy conservation, renewable energy adoption, and responsible energy consumption among students, faculty, staff, and the local community.

8 DECENT WORK AND ECONOMIC GROWTH**SDG 8: Promote Sustained, Inclusive and Sustainable Economic Growth, Full and Productive Employment and Decent Work for All**

MCERC is committed to developing competent, innovative, and socially responsible graduates who contribute to sustainable economic growth and nation-building. Through industry-oriented education, skill development, entrepreneurship, research, and strong industry collaborations, the Institute strives to enhance employability, promote decent work opportunities, and foster an innovation-driven ecosystem.

Strategic Plans & Initiatives:

- Enhance graduate employability through industry-aligned curriculum, Outcome-Based Education (OBE), internships, apprenticeship programs, certification courses, and continuous skill development initiatives.
- Strengthen entrepreneurship, innovation, and startup culture through the Institution's Innovation Council (IIC), incubation support, entrepreneurship development programs, mentoring, and industry partnerships.
- With 'Apprenticeship Embedded Degree Programme', expanding collaborations with industries, professional bodies, research organizations, and alumni to facilitate internships, live projects, consultancy, sponsored research, industrial training, and placement opportunities.
- Promote interdisciplinary research, technology development, intellectual property creation, and commercialization to support sustainable economic growth and regional development with R&D Cell.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE**SDG 9: Build Resilient Infrastructure; Promote Inclusive and Sustainable Industrialization and Foster Innovation**

MCERC is committed to strengthening resilient infrastructure, advancing research and innovation, and fostering strong industry partnerships to support sustainable technological development. With well-established 8 UG, 6 PG, and 5 Ph.D. research programmes, modern laboratories, autonomous academic practices, and an innovation-driven ecosystem, MCERC strives to create a multidisciplinary environment that nurtures research excellence, technological innovation, and entrepreneurship for societal and industrial advancement.

Strategic Plans & Initiatives:

- Continuously strengthen academic, research, and digital infrastructure to support quality education, multidisciplinary research, innovation, and sustainable institutional growth.

- Expand flexible and multidisciplinary academic pathways by supporting Honours, Double Minor, and Honours with Research degree options, enabling students to develop interdisciplinary competencies, domain specialization, and research-oriented capabilities aligned with emerging industry and societal needs.
- Leverage the Institute's UG, PG, and Ph.D. programmes to create a vibrant research ecosystem that encourages interdisciplinary research, innovation, publications, patents, and product development.
- Foster innovation and entrepreneurship through the Institution's Innovation Council (IIC), incubation support, various student professional chapters, startup initiatives, Hackathons, innovation challenges, and industry mentoring.
- Integrate emerging technologies such as Artificial Intelligence, Data Science, Internet of Things (IoT), Robotics, Automation, Digital Manufacturing, and Smart Systems into curriculum, laboratories, research, and institutional infrastructure.
- Develop smart, sustainable, and technology-enabled campus infrastructure that enhances teaching-learning, research, administration, and student services while supporting environmental sustainability.



SDG 10: Reduce Inequality Within and Among Countries

MCERC is committed to creating an inclusive, equitable, and accessible academic environment where every student and staff member is respected, valued, and provided with equal opportunities to succeed. Through inclusive policies, student support systems, and a culture of diversity and mutual respect, MCERC strives to eliminate social, economic, gender, and physical barriers, ensuring that no learner is left behind.

Strategic Plans & Initiatives:

- Ensure equitable access to quality technical education for students irrespective of their socio-economic background, gender, region, religion, caste, or physical abilities.
- Strengthen facilities and support services for differently-abled (Divyangjan) students and staff by ensuring an accessible, barrier-free, and inclusive campus.
- Foster a campus culture that values diversity, equality, mutual respect, and non-discrimination through awareness programs, institutional policies, and student engagement activities.
- Encourage equal participation and representation of all students in academics, research, innovation, leadership roles, sports, cultural activities, and extension programs with SC/ST Cell, Equal Opportunity Cell and other cells.
- Provide career guidance, skill development, placement support, and entrepreneurship opportunities to enhance the academic and professional success of students from all sections of society

11 SUSTAINABLE CITIES AND COMMUNITIES



SDG 11: Make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable

MCERC is committed to fostering sustainable development by creating a safe, green, resilient, and inclusive campus while contributing to the sustainable growth of surrounding communities. Through environmentally responsible infrastructure, community engagement, technical expertise, and extension activities, MCERC strives to develop innovative solutions that support sustainable urban and rural development.

Strategic Plans & Initiatives:

- Develop and maintain a green, safe, accessible, and resilient campus through sustainable infrastructure, energy-efficient buildings, effective waste management, water conservation, and enhanced green cover.
- Encourage students and faculty to undertake community-based projects addressing sustainable transportation, clean energy, water resource management, sanitation, disaster resilience, and smart village initiatives.
- Strengthen partnerships with local bodies, industries, government agencies, NGOs, and nearby communities through NSS, extension activities, and outreach programs for inclusive and sustainable community development.
- Reduce the Institute's environmental footprint through Green Audit recommendations, renewable energy utilization, biodiversity conservation, sustainable mobility, and responsible resource management.
- Promote awareness among students and staff on sustainable lifestyles, environmental responsibility, disaster preparedness, and climate action through workshops, campaigns, and community engagement initiatives.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



SDG 12: Ensure Sustainable Consumption and Production Patterns

MCERC is committed to promoting sustainable consumption and responsible resource management by integrating environmental stewardship into its academic, research, and administrative practices. Through Green Audit initiatives, efficient utilization of natural resources, waste minimization, and awareness programs, MCERC strives to cultivate a culture of sustainability and responsible citizenship among students, faculty, and staff.

Strategic Plans & Initiatives:

- Promote the efficient and sustainable utilization of energy, water, paper, laboratory resources, and other institutional assets through environmentally responsible practices.

- Implement Green Audit recommendations by strengthening resource conservation, energy efficiency, renewable energy utilization, and sustainable campus operations.
- Reduce waste generation through the Reduce–Reuse–Recycle (3R) principle, segregation of waste at source, responsible disposal of e-waste, and environmentally sound waste management practices.
- Encourage sustainable procurement, responsible purchasing, and the adoption of eco-friendly materials and green technologies across academic and administrative activities.
- Foster responsible consumption habits among students, faculty, and staff through awareness campaigns, NSS activities, environmental clubs, and sustainability-focused events.
- Encourage student projects, interdisciplinary research, and industry collaborations that develop sustainable products, cleaner technologies, and environmentally responsible engineering solutions.

13 CLIMATE ACTION



SDG 13: Take Urgent Action to Combat Climate Change and Its Impacts

MCERC is committed to addressing the challenges of climate change by promoting environmental sustainability, climate awareness, responsible resource management, and institutional resilience. Through sustainable campus practices, climate-focused education, research, innovation, and community engagement, the Institute strives to reduce its environmental footprint, strengthen preparedness for climate-related risks, and empower students and faculty to contribute to effective climate action.

Strategic Plans & Initiatives:

- Reduce greenhouse gas emissions and minimize the environmental footprint of the campus through energy conservation, renewable energy adoption, sustainable resource utilization, waste management, and other environmentally responsible practices.
- Integrate climate change awareness, environmental sustainability, and climate literacy into teaching-learning practices, student activities, research, and extension initiatives.
- Promote research, innovation, and technology-driven solutions addressing climate change mitigation, adaptation, energy efficiency, resource conservation, and environmental sustainability.
- Encourage students, faculty, and staff to participate in environmental awareness programs, sustainability initiatives, tree plantation drives, conservation activities, and community-based climate action.



SDG 14: Conserve and Sustainably Use the Oceans, Seas and Marine Resources for Sustainable Development

MCERC is committed to promoting the conservation and sustainable use of aquatic ecosystems by fostering awareness, responsible water management, research, innovation, and community engagement. Through academic initiatives, sustainable campus practices, and collaborative efforts, the Institute strives to reduce its impact on aquatic environments, promote water conservation, and contribute to the protection of aquatic biodiversity and ecosystems.

Strategic Plans & Initiatives:

- Promote awareness and knowledge among students, faculty, and staff regarding marine and aquatic ecosystems, biodiversity conservation, and sustainable water management practices.
- Minimize campus-related water pollution and reduce the environmental impact on aquatic ecosystems through responsible wastewater management, water conservation, and pollution prevention measures.
- Encourage research, innovation, and technology development in areas such as water conservation, wastewater treatment, aquatic ecosystem management, marine sustainability, and biodiversity protection.
- Promote sustainable water-use practices across the campus through efficient water management, rainwater harvesting, wastewater treatment and reuse, and conservation-oriented initiatives.



SDG 15: Protect, Restore and Promote Sustainable Use of Terrestrial Ecosystems, Sustainably Manage Forests, Combat Desertification and Halt, and Reverse Land Degradation, and Halt Biodiversity Loss

MCERC is committed to conserving terrestrial ecosystems, promoting biodiversity, and encouraging the sustainable management of land and natural resources. Through green campus initiatives, environmental education, research, innovation, and community engagement, the Institute strives to enhance ecological sustainability, protect biodiversity, and contribute to the restoration and responsible use of terrestrial ecosystems.

Strategic Plans & Initiatives:

- Promote the conservation, restoration, and sustainable use of terrestrial ecosystems and natural resources through environmentally responsible institutional practices.

- Increase green cover and enhance biodiversity on and around the campus through tree plantation, landscaping, and ecological conservation initiatives.
- Encourage research, innovation, and community outreach focused on afforestation, reforestation, biodiversity conservation, habitat restoration, and sustainable land management.
- Integrate principles of sustainable land, forest, and natural resource management into curriculum, research, innovation, and student development activities.
- Promote awareness among students, faculty, and staff regarding biodiversity conservation, ecosystem protection, land degradation, and the importance of sustainable environmental practices.

16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



SDG 16: Promote Peaceful and Inclusive Societies for Sustainable Development, Provide Access to Justice for All and Build Effective, Accountable and Inclusive Institutions At All Levels

MCERC is committed to fostering a peaceful, inclusive, transparent, and ethical institutional environment that promotes justice, equality, accountability, and respect for human rights. Through participatory governance, effective grievance redressal mechanisms, ethical practices, civic engagement, and legal awareness, the Institute strives to empower students and stakeholders to become responsible citizens and contribute meaningfully to a just and inclusive society.

Strategic Plans & Initiatives:

- Foster a peaceful, safe, inclusive, and respectful learning environment that promotes equality, dignity, mutual respect, and harmonious interactions among students, faculty, and staff.
- Promote ethical conduct, integrity, transparency, and accountability in academic, administrative, and institutional governance through clearly defined policies and responsible practices.
- Strengthen student participation, feedback mechanisms, grievance redressal systems, and institutional transparency to ensure that student concerns are addressed effectively and fairly.
- Encourage civic responsibility, democratic values, constitutional awareness, human rights, and legal literacy among students through academic and co-curricular activities.
- With various cells, promote awareness and implementation of institutional policies related to ethical conduct, anti-discrimination, prevention of harassment, and responsible citizenship.



SDG 17: Strengthen the Means of Implementation and Revitalize the Global Partnership for Sustainable Development

MCERC is committed to strengthening partnerships and collaborative networks that support sustainable development, academic excellence, research, innovation, and societal progress. Through meaningful collaborations with academic institutions, industries, government agencies, research organizations, professional bodies, alumni, and community stakeholders, the Institute strives to mobilize knowledge, expertise, resources, and opportunities to advance the Sustainable Development Goals at institutional, national, and global levels.

Strategic Plans & Initiatives:

- Strengthen multi-stakeholder partnerships with academic institutions, industries, government agencies, NGOs, research organizations, professional bodies, alumni, and community stakeholders to advance the Sustainable Development Goals.
- Develop and expand national, regional, and international collaborations to enhance education, research, innovation, faculty development, student opportunities, and knowledge exchange.
- Promote joint research, consultancy, innovation, apprenticeship, internships, training programs, conferences, and other collaborative initiatives that contribute to sustainable development.
- Encourage global citizenship, cultural understanding, international exposure, and cross-border academic cooperation among students, faculty, and researchers.
- Strengthen institutional networks and strategic partnerships to share best practices, scale successful sustainability initiatives, and contribute to the achievement of local, national, and global development priorities.

As part of our commitment, a Strategic action plan is prepared and some initiatives have been taken, that highlights some of the many inspiring ways in which we are contributing to the SDGs; capturing important opportunities for improvement and engagement going forward.

From commitment to action, from innovation to impact—MCERC is advancing towards a more sustainable and inclusive future !!
