KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

ISO 9001:2015   AICTE-CII: GOLD Category Institute   NAAC - 'A' Grade Institute (CGPA : 3.19)

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काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ – ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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SDG POLICY AT KITSW

Introduction

Through research, teaching, and community involvement, Kakatiya Institute of Technology and Science, Warangal (KITSW) is dedicated to promoting sustainable development. An overview of the institution's alignment with and integration of the Sustainable Development Goals (SDGs) into its academic, administrative, and research endeavours is given in this document.

SDG Alignment at Institute level

SDG 1: No Poverty

- Providing scholarships and financial aid to economically disadvantaged students.
- Organizing skill development programs to enhance employability.
- Develop low-cost engineering solutions (e.g., affordable housing, renewable energy systems).
- Promote student projects addressing rural poverty (e.g., water purification, skill development).

Strategic Goals for Achievement:

- Projects to improve livelihoods in local communities.
- Research on equitable access to technology and resources.

SDG 2: Zero Hunger

- Promoting sustainable agriculture practices through research projects.
- Innovate in agricultural technology (e.g., IoT-based farming, hydroponics).
- Collaborate with local farmers to improve food security.

Strategic Goals for Achievement:

- Support small-scale producers through engineering solutions.
- Research on sustainable farming practices.

SDG 3: Good Health and Well-being

- Implementing mental health and wellness programs for students and faculty.
- Conducting health camps and awareness drives.
- Biomedical engineering projects (e.g., low-cost medical devices).

Strategic Goals for Achievement:

- Develop affordable healthcare technologies

SDG 4: Quality Education

- Enhancing digital learning platforms and e-content for accessibility.
- Establishing research centers focused on educational innovation.
- Offer workshops and scholarships for underprivileged students.
- Digital literacy programs for local schools.

Strategic Goals for Achievement:

- Enhance technical and vocational training.

SDG 5: Gender Equality

- Ensuring equal opportunities for female students and faculty members.
- Conducting gender sensitization workshops.
- To encourage female participation in STEM through mentorship programs.
- Research on gender-inclusive technologies.

Strategic Goals for Achievement:

- Promote women's leadership in engineering.

SDG 6: Clean Water and Sanitation

- Implementing water conservation projects within the campus.
- Promoting sustainable sanitation practices.
- Projects on water purification and wastewater management.
- Community awareness programs on water conservation.

Strategic Goals for Achievement:

- Develop affordable water filtration systems.

SDG 7: Affordable and Clean Energy

- Utilizing solar panels and other renewable energy sources on campus.
- Encouraging research on energy-efficient technologies.
- Research on solar/wind energy solutions.
- Energy-efficient campus initiatives.

Strategic Goals for Achievement:

- Increase renewable energy adoption.

SDG 8: Decent Work and Economic Growth

- Strengthening industry-academia collaborations for better career opportunities.
- Supporting entrepreneurship and start-up incubation.
- Entrepreneurship programs for students.
- Collaborations with industries for job creation.

Strategic Goals for Achievement:

- Foster skill development for employability.

SDG G: Industry, Innovation, and Infrastructure

- Investing in smart infrastructure and technological advancements.
- Encouraging faculty and student-led research in emerging fields.
- Smart city and IoT research projects.
- Innovation hubs for student startups.

Strategic Goals for Achievement:

- Develop sustainable infrastructure solutions.

SDG 10: Reduced Inequality

- Offering special programs for students from marginalized communities.
- Ensuring campus accessibility for differently-abled individuals.
- Outreach programs for marginalized communities.
- Research on inclusive technologies.

Strategic Goals for Achievement:

- Promote social inclusion through engineering.

SDG 11: Sustainable Cities and Communities

- Conducting urban sustainability research and projects.
- Engaging in community development initiatives.
- Urban planning and waste management projects.
- Green campus initiatives.

Strategic Goals for Achievement:

- Reduce environmental impact of urban areas.

SDG 12: Responsible Consumption and Production

- Implementing waste management and recycling programs.
- Encouraging sustainable procurement policies.
- Recycling and e-waste management programs.
- Research on circular economy models.

Strategic Goals for Achievement:

- Implement waste reduction strategies.

SDG 13: Climate Action

- Conducting climate change awareness campaigns.
- Integrating climate resilience into engineering curricula.
- Carbon footprint reduction projects.

Strategic Goals for Achievement:

- Educate on climate mitigation.

SDG 14: Life Below Water

- Encouraging research on water conservation and marine sustainability.
- Organizing awareness drives about plastic pollution.
- Projects on water pollution control.
- Research on sustainable fisheries.

Strategic Goals for Achievement:

- Reduce marine pollution.

SDG 15: Life on Land

- Promoting afforestation and biodiversity conservation programs.
- Conducting environmental impact studies.
- Afforestation drives and biodiversity research.
- Workshops on conservation.

Strategic Goals for Achievement:

- Promote sustainable land use.

SDG 16: Peace, Justice and Strong Institutions

- Encouraging ethical leadership and governance practices.
- Organizing legal awareness sessions.
- Ethics and governance workshops.
- Projects on cyber security and data privacy.

Strategic Goals for Achievement:

- Advocate for transparency in technology.

SDG 17: Partnerships for the Goals

- Collaborating with international and local organizations for sustainability.
- Engaging in multi-disciplinary research projects.
- To collaborate with NGOs, industries and government.
- International research partnerships.

Strategic Goals for Achievement:

- Foster multi-stakeholder collaborations.

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