

## SDGs SPECIFIC TO MITS

MITS has identified the following goals in which to make its credible contributions. The concerned Departments can explore the feasibility for attainment of the following SDGs.

S.No	SDG	Activity	Concerned Department
		Research Installation/ syllabus/ drives/ awareness programs	
1.	<b>SDG-1</b> No poverty	Donations in the event of a disaster	NSS
2.	<b>SDG-3</b> Good Health and well being	Blood donation camps	NSS
3.	<b>SDG-4</b> Quality Education	Public Resources for lifelong learning	MITS Radio
		Education on Sustainability	Department of Chemistry (EVS course)
		Research centres on sustainability	a) Energy b) Waste management c) Sustainable construction materials
4.	<b>SDG-5</b> Gender Equality	It is a fundamental human right that everyone should have the same opportunities and access to resources, regardless of their gender.	Women Empowerment cell
5.	<b>SDG-6</b> (Clean water and Sanitation)	Awareness programs on water conservation, water testing, Installations for rain water harvesting.	Department of Chemistry and the Department of Civil Engineering
6.	<b>SDG-7</b> (Affordable and Clean Energy)	Hetero-junction solar cells, Installation of solar panels for lighting the campus, awareness programs on the conservation of electricity	Department of Electrical and Electronic Engineering

		<p>High T<sub>c</sub> Super-conductivity (HTSC)</p> <p><b>Ground work on the feasibility of novel High-Temperature Superconductivity in some thin films is already completed by MITS Faculty by mid-2024. Collaboration established with IIT (M) for further work.</b></p> <p><b>(Details discussed under “Activities” section)</b></p>	Department of Physics
		Batteries/ Supercapacitors/ Fuel cells for Electric vehicles with special emphasis to safety and waste management of the electrochemical power sources.	Department of Chemistry
7.	<b>SDG-8</b> Decent work and Economic Growth	<b>Graduate employability</b> which means the capacity of the student to obtain and/or create work.	<p>1. Entrepreneurship Development Cell</p> <p>2. Placement cell</p> <p>3. Industry Institute Interaction cell (IIC)</p>
8.	<b>SDG-10</b> (Reduced inequality)	This goal calls for reducing inequalities in income as well as those based on age, sex, disability, race, ethnicity, origin, religion or economic or other status within, and among different countries.	<p>1. Anti-Ragging cell</p> <p>2. SC-ST cell</p> <p>3. Diverse environment in the student as well as in the faculty circle</p>

<p>9. SDG-11</p>	<p><b>Green chemistry for circular economy</b> in general and plastic management in particular (<i>Green chemistry</i> encompassing the principles of pericyclic reactions of <i>no by-products, along with nano technology are already offered as electives by the Department of Chemistry</i>). In addition, the department of Chemistry also offers a paper for one semester on Environmental Science for II-year B.Tech.</p> <div data-bbox="391 582 805 974" data-label="Diagram"> <p>The diagram illustrates three economic models:     <ul style="list-style-type: none"> <li><b>LINEAR ECONOMY:</b> A linear flow from 'Take' to 'Make', 'Use', and finally 'Waste'. Below it is an illustration of a overflowing trash bin.</li> <li><b>RECYCLING ECONOMY:</b> A linear flow from 'Take' to 'Make', 'Use', and 'Waste'. A 'Recycle' arrow loops from 'Waste' back to 'Make'. Below it is an illustration of a trash bin with a recycling symbol.</li> <li><b>CIRCULAR ECONOMY:</b> A circular flow starting with 'Take' to 'Make', then 'Use'. From 'Use', arrows point to 'Repair', 'Reuse', and 'Return', all of which loop back to 'Make'. A 'Recycle' arrow also loops from 'Waste' back to 'Make'. Below it is an illustration of a clean, empty trash bin.</li> </ul> </p> </div>	<p>Department of Chemistry</p>
	<p>Plantation drives, Waste collection drives</p>	<p>NSS</p>
	<p><b>SUSTAINABLE MATERIALS</b> (Materials such as Recycled plastic, Recycled steel, laminated timber, pollution absorbing brick, recycled glass etc. designed on the concept of <b>circular economy</b>)</p>	<p>Department of Civil Engineering</p>