SDG 1

NO POVERTY

INTRODUCTION

Poverty is a multidimensional challenge that extends beyond income and is closely associated with access to education, skills, livelihood opportunities, financial resources, healthcare and social support. Advancing SDG 1: No Poverty therefore requires sustained efforts that strengthen capabilities, promote inclusion and create opportunities for individuals and communities to improve their socio-economic well-being.

At SRM University-AP, this commitment is carried forward through community engagement, social outreach, livelihood and entrepreneurship support, and academic research. During 2025–26, eleven events and initiatives across the University were formally mapped to SDG 1, together engaging more than 1,650 students, faculty, alumni and community members — from tribal villages and orphanages to rural micro-enterprises and university seminar rooms.

The University's approach combines direct, hands-on interventions — medical and charity outreach, donation drives, and livelihood support for rural women entrepreneurs — with knowledge creation through seminars, workshops and peer-reviewed research on poverty, inequality and financial inclusion. Together, these strands connect students and faculty to the lived realities of economic disadvantage while contributing evidence to the wider development conversation.

The sections that follow present these initiatives as SRM University-AP experienced them in 2025–26: community outreach and livelihood support; entrepreneurship empowerment through the ADITRI programme; and research and academic engagement — closing with the year's key figures.

11	1,650+	100	15
Events & initiatives mapped to SDG 1 in 2025–26	*Participants and beneficiaries engaged*	*Women-led micro-enterprises supported through ADITRI*	*Scopus-indexed publications mapped to SDG 1 (2025–26)*

Source: SRM University-AP SDG 1 event register, Directorate of Alumni Relations, Directorate of Entrepreneurship & Innovation, Directorate of Student Affairs, and Scopus/SciVal (data exported 2 September 2026).

COMMUNITY OUTREACH & SOCIAL RESPONSIBILITY

SRM University-AP's most direct engagement with SDG 1 took the form of hands-on outreach to under-resourced communities. On 15 March 2026, the Directorate of Alumni Relations and the SRM University-AP Alumni Association organised a Charity & Medical Outreach Programme at Y.G. Pakala Village, a tribal settlement in Chinturu Mandal. Eight faculty and alumni, a doctoral scholar and twelve undergraduate students — together with NCC cadets and SARC members — joined roughly eighty villagers for a day of free health check-ups, distribution of clothing, groceries and educational materials, and hygiene awareness sessions, supported by a University sanction of ₹2,00,000. The event's own outcome report noted that it "supported basic needs, encouraged learning among children, and strengthened community bonds."

These one-time drives were complemented by wider mobilisation: the Directorate of Student Affairs' Armed Forces Flag Day Fundraiser (6–9 January 2026) engaged around 500 students across campus in a social-awareness and fundraising campaign, while the NCC and NSS units jointly ran a community outreach and training programme at Namburu Village in May 2026.

A similar spirit ran through the NSS Cell's Mattress Distribution to Orphanage drive on 20 September 2025, in which four faculty members and five student volunteers delivered mattresses to improve living conditions for children at a local orphanage — a small but concrete step consistent with the NSS motto, "Not Me, But You."





Community service was also built directly into the curriculum. Through **VAC-507 "Samaj Seva"**, offered to the MBA 2025 batch by the Paari School of Business, 170 students worked between January and May 2026 with government schools, NGOs and local communities across Amaravati, Guntur and Vijayawada — engaging with underprivileged groups, local artisans and children at community centres to build empathy, civic awareness and an applied understanding of grassroots social need.





ENTREPRENEURSHIP & LIVELIHOOD EMPOWERMENT

The University's Directorate of Entrepreneurship & Innovation, through the HatchLab Research Centre, carried its CSR commitment to SDG 1 furthest through **ADITRI** — a programme built around the goal of transforming rural women into micro-entrepreneurs. The initiative culminated in two Machinery Distribution & Technical Know-How Transfer ceremonies during May 2025, each marking the formal handover of machinery and technical training to women-led micro-ventures.

The first ceremony, held at the APJ Abdul Kalam Auditorium on the SRM AP campus on 3 May 2025, brought together 177 external beneficiaries and 12 staff members, with Dr Chandra Sekhar Pemmasani, Union Minister of State for Rural Development & Communications, as chief guest.

The second ceremony took place on 6 May 2025 at V Convention, Sakhinetipalle, in Dr B.R. Ambedkar Konaseema district, with 177 external beneficiaries and 13 staff members in attendance. It was addressed by Ganti Harish Madhur Balayogi, Member of Parliament for Amalapuram, alongside Minister Vasamsetti Subhash and MLA Deva Varaprasad. In total, the two ceremonies marked machinery and technical know-how transfer to 100 women-led micro-enterprises, intended — in the programme's own words — to equip beneficiaries "for sustainable growth" and to highlight "the role of government and CSR support in driving grassroots economic development."

"Transforming Rural Women into Micro Entrepreneurs — Empowering Rural Women With Skills & Tools For Change."

ADITRI PROGRAMME · DIRECTORATE OF ENTREPRENEURSHIP & INNOVATION, SRM UNIVERSITY-AP





RESEARCH & ACADEMIC ENGAGEMENT

SDG 1 was equally advanced through the University's seminar and workshop calendar. In December 2025, the Department of Sociology and Anthropology at the Easwari School of Liberal Arts hosted the **50th All India Sociological Conference** of the Indian Sociological Society — "Mobilities and Inequalities: Shifting Contexts, Changing Paradigms" — drawing 422 participants over three days to examine how caste, class, gender, tribe, religion and region shape unequal access to mobility and resources amid migration, digital transformation and climate-linked displacement.



In February 2026, the Department of Economics convened a seminar on **"Cash Transfers and the Politics of Welfare: Rethinking Social Protection in India,"** bringing 21 participants together — including a session on the ongoing Universal Basic Income debate — to examine the fiscal and political dimensions of cash and in-kind transfer programmes and rights-based approaches to redistribution.

The department's **5-Day Workshop on Econometrics and Large-Scale Data Analysis for Social Science Research** (13–17 October 2025) trained 41 participants in analysing national datasets such as the NSSO and IHDS using STATA, EViews, R and Nesstar — applying propensity-score matching, difference-in-differences and panel-data techniques to welfare-related research questions, with sessions led by experts from NIT Silchar, the Gulati Institute of Finance and Taxation, and IIT Hyderabad.





Fieldwork also fed directly into applied research. As part of their Samaj Seva coursework, one MBA student team surveyed 100 residents of low-income urban neighbourhoods for a project titled "Enhancing Urban Poor through Financial Inclusion." The study found that while 49% of respondents held a bank account, only 22% used formal banking to save; 44% saved nothing at all, and 34% relied on informal methods — findings the team attributed to gaps in financial literacy and trust rather than access alone, leading them to recommend that inclusion programmes pair banking access with awareness and skill-building.

This engagement is reflected in the University's scholarly output. Between 2025 and 2026, SRM University-AP published **15 Scopus-indexed papers** mapped to SDG 1: No Poverty, drawing 31 citations and 487 views, with a field-weighted citation impact of 1.03 — indicating that this body of work is cited slightly above the global average for its field. Four of the fifteen papers (26.7%) involved international collaboration. The work spans financial inclusion and fintech, poverty and inequality measurement, the effect of globalisation on poverty reduction, smallholder irrigation in Ethiopia, and rainwater harvesting for water-insecure regions.

QUANTITATIVE HIGHLIGHTS

1,643	100	31	1,551
Participants across community, livelihood & research events with recorded attendance	*Women-led micro-enterprises transferred machinery under ADITRI*	*Citations drawn by SRM's SDG 1–mapped publications (2025–26)*	*Economically Weaker Section (EWS) students on roll, 2025–26*

Social-category representation, 2025–26

1,551	3,316	610	161
EWS	*OBC*	*SC*	*ST*

Out of 11,592 total students on roll at SRM University-AP, 2025–26. Source: University student-diversity records.

Taken together, the University's socio-economic access data show a substantial base of students from Economically Weaker Sections and reserved categories studying alongside 267 PhD scholars, 199 foreign national students and 49 NRI students — evidence that access to SRM University-AP's academic programmes is not limited by economic background, in keeping with the access dimension of SDG 1.

CONCLUSION

Across community outreach, livelihood empowerment and research, SRM University-AP's 2025–26 engagement with SDG 1 reflects a multidimensional approach to addressing poverty: direct support to a tribal village and an orphanage; technical and financial empowerment of 100 women-led rural micro-enterprises through ADITRI; curriculum-embedded social service for an entire MBA batch; and a growing body of Scopus-indexed scholarship on poverty, inequality and financial inclusion.

Together, these initiatives connected more than 1,650 students, faculty, alumni and community members with the realities of economic disadvantage, while contributing new evidence to the wider research conversation on eliminating poverty. Deepening rural and tribal outreach, scaling livelihood programmes such as ADITRI, and continuing to embed SDG-aligned questions into departmental research agendas offer clear directions for strengthening this contribution in the year ahead.

SDG 2

ZERO HUNGER

INTRODUCTION

Feeding people, growing knowledge. How SRM University–AP's dining halls, classrooms, outreach teams and laboratories are working, together, toward a food-secure future.

SDG 2 at SRM University–AP · FY 2025–26 (1 April 2025 – 31 March 2026)

Sustainable Development Goal 2 asks the world to end hunger, achieve food security, improve nutrition, and promote sustainable agriculture by 2030. For a residential university, that mandate is not abstract — it begins **on campus, in the mess hall and the classroom**, and extends outward into the farms and schools of the surrounding region.

SRM University–AP's contribution to Zero Hunger rests on four connected pillars. The first is its own food system — a network of hostel messes, canteens and cafeterias that is expected to deliver safe, nutritious meals daily while managing procurement and food waste responsibly. The second is community engagement: student-led outreach, delivered largely through the Samaj Seva curriculum, that carries nutrition literacy, hygiene practice and food-security awareness into government schools and farming communities in and around Guntur and Vijayawada. The third is institutional events that bring food-security and welfare themes into seminars, workshops and awareness drives. The fourth is a growing base of faculty and student research — spanning precision agriculture, food technology, nutrition science and climate-resilient farming — that connects SRM AP's academic strength to the global SDG 2 agenda.

This section draws together SRM AP's own FY 2025–26 data across these four pillars: campus food and waste statistics, flagship community programmes such as Seva Shakti: Nourish, Educate, Empower, institutionally logged SDG 2 events, and 63 Scopus-indexed publications mapped to Zero Hunger by SciVal. Read together, they trace one continuous story — from the plate, to the classroom, to the field, to the laboratory.

4	63	20	3
Connected pillars of SDG 2 contribution	*SDG 2–mapped publications, 2025–26*	*Food suppliers serving the campus*	*SDG 2–tagged institutional events*

FOOD, NUTRITION & SUSTAINABLE FOOD SYSTEMS

Campus procurement, dining infrastructure and food-waste management, FY 2025–26

Every hostel at SRM AP is served by a dedicated mess offering a balanced breakfast, lunch and dinner, prepared and served under hygienic conditions and designed to accommodate a range of tastes and dietary needs. Around this core, a wider network of canteens, cafeterias and night canteens keeps nutritious food accessible across the day.

65,254 kg	32 kg	20	1,000 kg
Food waste generated from food served within the university, per year	*Food waste per person, per year (FTE students + FTE employees)*	*Total food suppliers serving the campus, of which 15 are local suppliers*	*Capacity of on-campus food-waste processing facilities, across 8 collection points*

₹76.06 L	₹6.60 Cr	75 %
Total annual food purchase reported for FY 2025–26 (₹7,606,029)	*Total annual sustainable / local food purchase reported for FY 2025–26 (₹65,979,402)*	*Share of food suppliers that are local (15 of 20 total suppliers)*

Dining & facilities infrastructure

3	2,420	11	4
Hostel messes	*Mess seating capacity*	*Canteens*	*Night canteens*

4	1	12
Cafeterias	*Food court*	*Refreshment areas*

From procurement to plate — and back to the soil

The chain begins with procurement: 20 suppliers, three-quarters of them local, all certified sustainable, feed SRM AP's kitchens. It moves into food service, where three hostel messes seating 2,420 students, eleven canteens, four cafeterias, four night canteens and a food court translate that supply into a balanced daily menu — breakfast, lunch and dinner served in clean, monitored dining spaces. This, in turn, shapes nutrition and consumption across a community of thousands of resident students and staff who depend on these facilities as their primary source of food each day.

What is not consumed becomes the final link in the chain: waste management. SRM AP tracks food waste at eight dedicated collection points across campus and can process up to 1,000 kg through its on-site facilities — against a reported 65,254 kg generated annually, equivalent to roughly 32 kg per person once the full FTE student and employee population is accounted for. Closing this loop is the clearest near-term opportunity in SRM AP's food system.

Source: SRM University–AP Food Data Return, FY 2025–26 (Food Management & Building and Facilities datasets).

SOCIAL ACTIVITIES

Community engagement carrying nutrition, hygiene and farmer-welfare awareness beyond the campus

SRM AP's Samaj Seva curriculum — a mandatory community-service course for MBA students — is the primary vehicle through which SDG 2 reaches beyond the university gates. Two of its FY 2025–26 outputs, delivered in partnership with the Akshaya Patra Foundation, sit squarely inside Zero Hunger: a four-week nutrition, hygiene and empowerment programme, and a single-day nutrition-awareness activity in government schools. A parallel project-management study by undergraduate students examined farmer income and market access, connecting SDG 2's small-producer welfare target to the university's business curriculum.

● Seva Shakti: Nourish, Educate, Empower

SDG 2 · 3 · 4 · 5

Course: VAC 207 — Samaj Seva | **Team:** 7 MBA students, Section B | **Partner:** The Akshaya Patra Foundation, Mangalgiri | **Location:** government schools, Guntur district | **Duration:** four weeks, Mar–Apr 2026

Built around the idea that a "nourished body and an empowered mind" are the foundation of quality education, the programme paired nutritional literacy with hygiene training, career counselling and a gender-equality workshop across four weekly modules — rapport-building and needs assessment; nutrition and hygiene; career and gender empowerment; and a final gamified evaluation with a recognition ceremony.

15% → 88%
Students able to identify local foods by nutrient group (baseline → final)

12% → 95%
Students demonstrating the WHO 7-step hand-hygiene technique unaided

92%
Students scoring 70% or higher on the final assessment

₹5,926
Total programme expenditure across the four weeks

SEVA SHAKTI
'NOURISH, EDUCATE, EMPOWER'







● "Thumbs Up, Thumbs Down" — Nutrition Awareness Activity

SDG 2 · 3

Coordinators: Dr. Nagalakshmi M V N, Dr. Puviarasu M | **Team:** 7 Paari School of Business students | **Partner:** The Akshaya Patra Foundation | **Location:** ZPHS Revendrapadu & ZPHS Pedavadlapudi | **Date:** 18 March 2026

Students ran an interactive food-sorting exercise in which schoolchildren gave a thumbs up to healthy foods and a thumbs down to unhealthy ones, followed by a short class test covering carbohydrates, proteins and vitamins. The session's low-cost, high-engagement format — total spend of ₹240 on the activity itself — is exactly the kind of scalable nutrition-literacy model SRM AP's own recommendations call for expanding.







● Agri-Link: Connecting Farmers and Markets

SDG 2 · 8 · 9 · 12

Course: BBA — Project Management | **Team:** 8 students, Paari School of Business | **Field site:** Attaluru Palem Organic Farmers Producer Company Ltd. | **Field visit:** 5 September 2025

A project-management study rather than an outreach event, Agri-Link interviewed 100 farmers across Guntur-area villages and studied an organic farmer-producer company to understand why smallholders capture so little value from their own crops. It documented input costs of ₹30,000–45,000 per acre, payment delays exceeding 120 days at the hands of

intermediaries, and essentially no on-farm value addition — and proposed a direct farmer-to-market digital platform as a remedy. The findings speak directly to SDG 2's target on doubling the incomes of small-scale food producers.







EVENTS AND INITIATIVES

Institutionally logged SDG 2 events, FY 2025–26

3
Total events tagged to SDG 2 in SRM AP's institutional events register (each single-SDG tagged; no duplicate or multi-SDG counting)

232
Combined recorded participants across the three SDG 2 events

2
Schools/offices involved — Paari School of Business and Easwari School of Liberal Arts

● VAC-507 Samaj Seva for MBA 2025 Batch

Outreach · PSB

Nature: Community outreach | **Dates:** 5 Jan – 4 May 2026 (120 days) | **Locations:** Amaravati, Guntur, Vijayawada | **Participants:** 170

This is the umbrella course under which SRM AP's MBA students deliver community-facing SDG 2 work, including the Seva Shakti and "Thumbs Up, Thumbs Down" programmes profiled above. Its stated objective — nurturing empathy, social responsibility and civic engagement through direct involvement with underprivileged communities — is realised in practice as sustained nutrition, hygiene and welfare outreach to government schools, NGOs and local communities across the Amaravati–Guntur–Vijayawada corridor.

● Cash Transfers and the Politics of Welfare: Rethinking Social Protection in India

Seminar · ESLA

Nature: Academic seminar | **Date:** 18 February 2026 | **Venue:** Tiered Classroom, HB Block, SRM AP | **Participants:** 21 recorded

Organised by the Department of Economics, this seminar examined the economic and political dimensions of cash and in-kind transfers in India — welfare design, fiscal sustainability and rights-based social protection. It brings SDG 2's welfare and social-protection dimension directly into SRM AP's academic and policy discourse, encouraging critical engagement with how redistribution and food-and-income security are actually designed and delivered in India.

A third SDG 2–tagged event, a 5-Day Workshop on Econometrics and Large-Scale Data Analysis for Social Science Research (Department of Economics, ESLA, 13–17 October 2025, 41 recorded participants), built quantitative research capacity using large national datasets such as the NSSO and IHDS. It is included in the count above for completeness of the institutional register, but — being a methods-training workshop rather than a food-, nutrition- or welfare-focused activity in its own content — is not treated as core SDG 2 programming in this report.

RESEARCH & PUBLICATIONS

SDG 2–mapped scholarly output, 2025–2026 (Scopus / SciVal)

SciVal maps 63 SRM University–AP publications from 2025–26 to SDG 2: Zero Hunger — the same 63 records that appear in the university's own SDG 2 publication return. Nineteen of them carry international co-authorship, together they have drawn 176 citations and just over a thousand views, and the body of work as a whole sits close to the global citation benchmark for its field.

63	0.87	19	176
SDG 2–mapped publications, 2025–26	*Field-weighted citation impact*	*Publications with international co-authorship*	*Citations to date (1,036 views)*

Leading keyphrases across the 63 publications, by relevance:

Precision Agriculture · Food Supply · Food Security · Agricultural Machinery · Plant Diseases · Water Conservation · Machine Learning · Disease Classification · Weed Control · Artificial Intelligence · Object Detection · Water Resources Development

Publications

Rather than list all 63 records, four clusters below highlight the publications most directly aligned with food security, nutrition, agriculture and sustainable food systems.

Determinants of Nutritional Status among Children under 5 Years in India — Singh, Shri & Singh (2026). A cross-sectional analysis of the National Family Health Survey (2019–2021) identifying the drivers of childhood malnutrition — evidence with direct bearing on India's Zero Hunger targets.

Microalgae-based nutritional supplements: sustainable applications for high-nutritional-value food production — Rajamanickam et al. (2025). Reviews microalgae as a scalable route to nutrient-dense food and supplement production.

Supply Chain Management for Sustainable Food Production Using the Analytic Hierarchy Process — Sravanthi & Meriga (2025). Applies a structured decision-making framework to sustainable food-production supply chains.

Bioactive compounds from food and agro-industrial wastes — Chintagunta et al. (2025). Surveys methods for recovering nutritionally and industrially valuable compounds from food-processing waste streams.

Leaf disease detection and classification in food crops with efficient feature dimensionality reduction — Syed et al. (2025). A lightweight deep-learning approach to early detection of disease in staple food crops.

Comparative Analysis of YOLOv11 and YOLOv12 for Automated Weed Detection in Precision Agriculture — Shaik et al. (2025). Benchmarks current object-detection models for real-time weed identification in the field.

HybridSoilNet: A Novel Approach to Classify Soil Nutrient Deficiencies — Karra, Krishnan & Vaddi (2025). A deep-learning model for diagnosing soil nutrient gaps that limit crop yield.

Unlocking the potential of small-scale irrigation for small farmers in Northwestern Ethiopia — Gebrehiwet & Pandey (2025). Examines irrigation access as a lever for smallholder food security.

Forecasting Milk Production in India: Strategic Insights for Policymakers and Farmers — Pachava et al. (2025). Builds forecasting models to support dairy-sector planning and farmer income stability.

Meta-analysis in Agricultural Research: Unveiling Climate Change Impacts on the Yields Gap Studies — Chakraborty & Mondal (2026). Synthesises evidence on how climate change is widening agricultural yield gaps.

Source: SciVal "Activity of SRM University-AP" report, SDG 2: Zero Hunger (2025), data as of 30 August 2026; Publications_SRMAP_SDG2_2025–26 export (Scopus).

CONCLUSION

SRM University–AP's work on Zero Hunger is not a single initiative but a loop: a well-run campus food system creates the operating knowledge that students carry into government-school classrooms and farmer interviews, while faculty research on crop disease, soil health and nutrition feeds back into how the university itself thinks about food. **The task ahead is to tighten that loop** — expanding low-cost nutrition-literacy models like "Thumbs Up, Thumbs Down" to more schools, and translating precision-agriculture research into tools smallholder farmers can actually use. None of it ends hunger on its own; together, it is a credible, evidence-based contribution to the goal.

Compiled from SRM AP FY 2025–26 institutional data: Food Data Return, SDG 2 Social Activities reports, SDG 2 Events register, and SciVal/Scopus SDG 2 publication data.

SDG 3

GOOD HEALTH AND WELL-BEING

INTRODUCTION

Sustainable Development Goal 3 calls on institutions everywhere to ensure healthy lives and promote well-being for people of every age. At SRM University–AP, this commitment is woven into the everyday life of the campus — from the moment a student walks in for a routine check-up, to the counselling room where a difficult week is talked through, to a village square where a medical camp brings care to families who would otherwise travel far to find it.

Over the 2025–26 academic year, the University's approach to Good Health and Well-being has rested on six mutually reinforcing pillars: accessible preventive healthcare, dedicated mental-health and counselling support, menstrual and reproductive health awareness, campus hygiene and personal safety, physical fitness and healthy living, and a growing body of health-focused research and scholarship. These pillars are delivered jointly by the Directorate of Student Affairs, the University's Wellness Centre and Counselling team, the NSS and NCC units, the Directorate of Sports, and academic departments across the Schools of Engineering & Sciences, Liberal Arts and Management.

The sections that follow present this contribution through verified institutional data — recorded events, outreach activities, and Scopus-indexed research output — rather than aspiration alone, offering a transparent account of how SRM University–AP is advancing SDG 3 for its students, staff and surrounding communities.

HEALTH, WELL-BEING & CAMPUS INITIATIVES

32	6,900+	229	3
SDG 3–aligned events conducted (AY 2025–26)	*Participants engaged in health & well-being activity*	*SDG 3–linked scholarly publications, 2025–26*	*Dedicated University Counsellors on campus*

● Mental Health & Counselling

The University's Wellness Centre and Counselling team (Ms Alekhya Sankara, Mr Joel Gibbs, Ms Shalini S) run a continuous calendar of confidential counselling, awareness workshops and crisis-response programming, including two dedicated World Suicide Prevention Day initiatives and a dedicated Mental Wellness session reaching students, faculty and staff.

● Preventive & Primary Healthcare

A university-wide Dental Camp screened over 500 members of the community, while a Blood Donation Camp and an Alumni-led Charity & Medical Outreach Programme extended essential health-care access to students, staff and neighbouring villages.

● Menstrual & Reproductive Health

The Mission Shakthi menstrual awareness drive combined expert-led sessions with eco-friendly sanitary pad distribution, reaching students on campus and adolescent girls at a partner school in Mangalagiri.

● Safety, Hygiene & Personal Well-being

Anti-Ragging Week, the POSH (Prevention of Sexual Harassment) awareness programme, a Road Safety Awareness session with district officials, and the 'Safe Boundaries' child-safety outreach together reached thousands of students, staff and schoolchildren.

● Fitness & Healthy Lifestyles

The Directorate of Sports promotes physical well-being through the International Day of Yoga, a Yoga Half-Marathon and Yoga-Jala Neti sessions, complemented by the NCC Cadets' disciplined participation in the University's Annual Athletics Meet.

● Stress Management

'Beyond Your Preparations' — a large-scale workshop on managing stress during placements and career transitions — reached over 1,600 students, reflecting the University's focus on psychological resilience at a critical academic milestone.

OUTREACH

Beyond the campus, SRM University–AP's National Service Scheme (NSS), National Cadet Corps (NCC), Directorate of Student Affairs and Alumni Relations network carry health, hygiene and safety awareness into neighbouring schools and villages. The activities below represent the most directly SDG 3–relevant community outreach conducted during the year.

● Safe Boundaries: Understanding Good Touch vs Bad Touch

Govt. Primary School, Nedamarru | 21 November 2025

Purpose: To help young children distinguish safe from unsafe touch and build the confidence to say 'no' and seek help from a trusted adult.

Beneficiaries: ~70 schoolchildren, alongside 4 SRMAP faculty/counsellors and 2 student volunteers.

Partner: Govt. Primary School, Nedamarru (NSS-adopted school)

Activity: An interactive, age-appropriate safety session delivered by University Counsellor Ms Alekhya Sankara.

Outcome: Children reported a clearer understanding of body safety, personal boundaries and reporting channels for unsafe situations.

● Mission Shakthi — Menstrual Awareness Drive

Don Bosco High School, Mangalagiri | 20 February 2026

Purpose: To break myths and stigma around menstruation and equip adolescent girls with accurate health knowledge and hygiene products.

Beneficiaries: ~150 school students, supported by 2 SRMAP faculty and 10 student volunteers.

Partner: Don Bosco High School, Mangalagiri (SRMAP NSS Unit)

Activity: An expert-led talk, eco-friendly sanitary pad distribution and an interactive Q&A session.

Outcome: Improved menstrual-hygiene awareness and greater confidence among participating students in managing their health with dignity.

● Alumni Association Charity & Medical Outreach Programme

Y. G. Pakala Village, Chinturu Mandal (tribal area) | 15 March 2026

Purpose: To extend basic health-care access and medical support to an underserved tribal community.

Beneficiaries: 101 participants, combining SRMAP alumni volunteers and community members.

Partner: SRM University–AP Alumni Relations

Activity: A community medical outreach and charity camp organised in partnership with the alumni network.

Outcome: Essential health-care support and awareness extended to a tribal community with limited access to medical services.

● Combined NCC & NSS Outreach Programme

Namburu Village | 2 May 2026

Purpose: To combine disciplined cadet training with grassroots community engagement and awareness building.

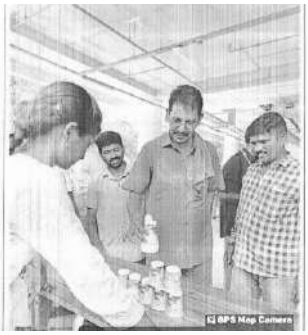
Beneficiaries: SRMAP NCC and NSS cadets and volunteers.

Partner: NCC and NSS Units, SRM University–AP

Activity: A joint training and community outreach programme conducted in a nearby village.

Outcome: Strengthened cadet-community engagement and reinforced the University's presence in local welfare activity.





EVENTS AND INITIATIVES

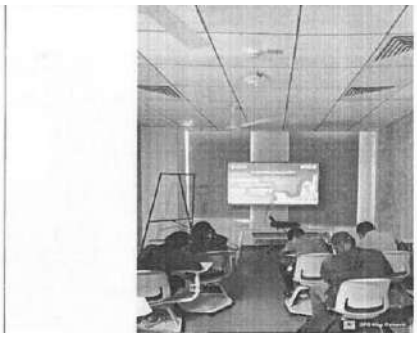
32

Unique SDG 3 events recorded across AY 2025–26

The figure above reflects unique, non-duplicated SDG 3 events consolidated from every University record source — intranet-logged departmental events, the Directorate of Student Affairs event register, Sports events, and Outreach records — after removing repeat entries for the same real-world activity (for example, a single Mental Health Day recorded once by the organising department and once by the hosting office). The most relevant of these — health camps, mental-health and suicide-prevention initiatives, menstrual health, hygiene, road safety, blood donation, healthcare and stress-management activity — are presented below as one consolidated institutional effort.

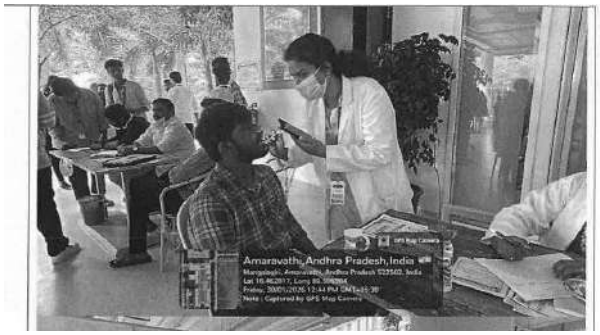
Event	Date	Reach	SDG 3 Relevance
Anti-Ragging Week	12–18 Aug 2025	121	Campus safety & ethics awareness programme for new students.
POSH — Safe, Inclusive & Respectful Campus	20 Aug 2025	~3,536	Institution-wide orientation on prevention of sexual harassment and safe conduct.
Art for Well-being (International Youth Day)	12 Aug 2025	82	Creative-expression workshop supporting emotional well-being.
Breaking the Silence: Suicide Prevention & Mental Health	9 Sep 2025	41	Awareness workshop on suicide prevention and mental health.
Your Voice Matters: Suicide Prevention Human Chain	10 Sep 2025	41	Symbolic human-chain activity marking World Suicide Prevention Day.
World Mental Health Day — Access to Services	10 Oct 2025	80	Campus-wide mental health campaign incl. staff and support-worker outreach.
Road Safety Awareness Programme	21 Jan 2026	109	Traffic-rules and safe-driving session with district road-safety officials.
Dental Camp	30 Jan 2026	515	Free dental screening and oral-hygiene awareness for the campus community.
Menstrual Awareness — Mission Shakthi	20 Feb 2026	162	Menstrual-health awareness and sanitary-product distribution.

Event	Date	Reach	SDG 3 Relevance
Blood Donation Camp	24 Feb 2026	n/a	Voluntary blood-donation drive with NSS and DSA.
Session on Mental Wellness (Wellness Centre)	25 Mar 2026	54	Structured mental-wellness and coping-strategies session.
Beyond Your Preparations — Managing Placement Stress	4 Jun 2026	1,602	Large-scale stress-management workshop for final-year students.
NCC Cadets' Parade, Annual Athletics Meet	5 Feb 2026	52	Discipline and physical-fitness demonstration by NCC cadets.
International Day of Yoga	21 Jun 2025	137	University-wide yoga session promoting physical and mental fitness.
Yoga Half-Marathon	1 Apr 2026	45	Endurance and fitness event combining yoga with distance running.
Yoga — Jala Neti Session	8 Apr 2026	67	Yogic hygiene-practice session for respiratory and general wellness.









RESEARCH & PUBLICATIONS

229	1.02	59	609
Scholarly publications mapped to SDG 3 (2025–26)	*Field-Weighted Citation Impact*	*Publications with international collaboration*	*Total citations recorded to date*

Publications

SRM University–AP's SDG 3–linked research spans disease diagnostics, cardiovascular and infectious-disease research, mental health and public-health policy, and health-monitoring technology. The following publications represent the strongest and most directly health-relevant contributions from the University's 2025–26 Scopus-indexed output.

Cutting-edge CNN-based skin cancer detection with batch normalization and advanced imbalance learning (Article, 2026) — Improves automated, image-based skin-cancer screening accuracy.

Histopathological image based breast cancer diagnosis using deep learning and bio-inspired optimization (Article, 2025) — Advances AI-assisted breast-cancer diagnosis from tissue imagery.

A Machine Learning Framework for Accurate and Scalable Brain Tumor Categorization in MRI Imaging (Conference Paper, 2025) — Supports faster, more reliable brain-tumour classification from MRI scans.

Integrating electrocardiogram and fundus images for early detection of cardiovascular diseases (Article, 2025) — Combines multiple imaging modalities to flag cardiovascular risk earlier.

Advanced Hybrid Methodology for Robust Heart Disease Prediction and Feature Optimization (Conference Paper, 2025) — Improves predictive accuracy for heart-disease risk assessment.

Burden of non-communicable diseases in South Asia: a decomposition analysis (Article, 2025) — Quantifies the regional public-health burden of non-communicable disease.

Novel bacteriophages effectively target multidrug-resistant clinical isolates of Klebsiella pneumoniae (Article, 2026) — Offers a potential phage-therapy route against antimicrobial-resistant infection.

Federated learning-based disease prediction: A fusion approach with feature selection and extraction (Article, 2025) — Enables privacy-preserving, data-driven disease-prediction models.

An advanced IoT-based non-invasive in vivo blood glucose estimation exploiting photoacoustic spectroscopy (Article, 2025) — Points toward needle-free, continuous diabetes monitoring.

Mental health of young adults pursuing higher education in Tier-1 cities of India: A cross-sectional study (Article, 2025) — Provides evidence on student mental-health status directly relevant to campus well-being policy.

CONCLUSION

Across the 2025–26 academic year, SRM University–AP's contribution to SDG 3 has followed a clear and connected pathway. Campus healthcare infrastructure and a dedicated Wellness Centre provide the foundation; targeted prevention — from dental screening to road-safety training — reduces avoidable harm; sustained attention to mental health and menstrual well-being supports students through every stage of university life; NSS- and alumni-led outreach carries this same care into neighbouring schools and villages; 32 recorded events give this work visible, year-round momentum; and a growing portfolio of 229 SDG 3–linked publications ensures the University's contribution extends beyond its own campus into the wider evidence base for global health.

Taken together, these efforts reflect an institution that treats good health and well-being not as a single programme but as a shared responsibility distributed across student affairs, academic departments, sports, alumni and the surrounding community. As SRM University–AP looks ahead, the priority is to deepen this integration further — expanding preventive-health outreach to more first-generation and rural communities, and continuing to translate the University's research strength in diagnostics, cardiovascular health and mental health into practical benefit for the people it serves.

SDG 4

QUALITY EDUCATION

INTRODUCTION

Sustainable Development Goal 4 calls for inclusive, equitable and quality education, and the promotion of lifelong learning opportunities for all. For a university, this mandate extends beyond the classroom — it encompasses how effectively an institution prepares its faculty to teach, equips its students to learn, opens its doors to the surrounding community, and contributes new knowledge back to the field of education itself.

SRM University–AP approaches SDG 4 as a continuous institutional commitment. Across the 2025–26 academic year, this commitment took shape through structured faculty-development programmes at the Teaching Learning Centre (TLC), a wide calendar of academic and technical events, community-facing outreach in schools and rural settings, a growing library and digital-learning infrastructure, and a body of Scopus-indexed research on pedagogy, learning technology and educational access.

This section of the report brings together verified evidence from SRMAP's own event records, social-outreach reports, publication data and library resources to tell a single, connected story: how the university is strengthening teaching quality, expanding access to learning, and generating research that advances quality education — for its own campus community and for the wider public it serves.

Five threads run through the pages that follow — campus teaching-and-learning initiatives, community outreach, academic events, library and learning resources, and education-focused research — each substantiated with the university's own data and photographic evidence, and closing with a combined view of SRMAP's contribution to SDG 4.



EDUCATION & CAMPUS INITIATIVES

At the institutional level, SRM University–AP's flagship contribution to SDG 4 is the sustained faculty-development programme run through its Teaching Learning Centre (TLC). Across the year, the TLC delivered a structured series of hands-on training programmes aimed at strengthening pedagogy, embedding digital and AI-enabled teaching tools into everyday instruction, and building faculty capacity in outcome-based curriculum design — the foundation on which classroom quality for every student ultimately rests.

7
TLC faculty-development programmes (2025–26)

205
Faculty participation instances across programmes

5
AI & digital-learning tools covered (Google Classroom, ChatGPT, Khanmigo & more)

Focus Areas of Campus Teaching-and-Learning Initiatives

Outcome-Based Education & Curriculum Design. Dedicated training equipped faculty with outcome-oriented curriculum planning, assessment design and structured course-preparation methods, strengthening the quality and consistency of teaching across departments.

Digital & AI-Enabled Teaching. Faculty were introduced to Google Classroom, ChatGPT, TeachEasy.ai, Khanmigo.ai and blockchain-based classroom applications, enabling technology-supported lesson delivery and more engaging student interaction.

Innovative & Inclusive Pedagogy. Sessions on flipped and blended learning encouraged faculty to design learner-centred experiences that extend beyond the traditional classroom, supporting more flexible and inclusive teaching practice.

Learning Infrastructure. Newly joined faculty received intensive orientation to teaching-learning methods, supported by modern, technology-enabled classrooms and lecture spaces across campus that provide the physical foundation for quality instruction.





OUTREACH

SRM University–AP extends quality education beyond its own campus through structured community outreach. During 2025–26, student and faculty teams carried out education-focused activities in government schools and community settings around Mangalagiri and Vijayawada — spanning interactive learning games, career guidance, life-skills awareness and creative-learning workshops — bringing SRMAP's educational resources directly to school-going children and rural youth.

● Quality Education — Treasure Hunt, Pitch About Yourself & Word Search

18 March 2026 | ZPHS Revendrapadu & ZPHS Pedavadlapudi | 132 participants

An interactive session combining a treasure hunt, a “pitch about yourself” exercise and a book-based word-search activity — building teamwork, communication and vocabulary skills through play-based learning.








● Career Guidance and Quizzes

9 March 2026 | Tadikonda | 110 participants

A career-guidance session for Classes 8 and 9 introduced students to academic streams and career pathways, paired with a subject quiz that made learning interactive and reinforced conceptual understanding.

● Career Roadmap: Navigating Future Aspirations for Rural Youth

ZPHS International School, Nidamaru

A bilingual English–Telugu programme for Classes 9 and 10 used a structured questionnaire and interactive presentation to introduce students to diverse career trajectories — including vocational training, civil services and emerging digital roles — reducing language barriers to career information for rural students.









● Good Habits vs Bad Habits — Colour-Based Learning Game

9 March 2026 | Sharon Charitable Trust Children's Home, Navuluru, Vijayawada | 36 children

A colour-coded, game-based session helped children distinguish good and bad habits related to hygiene, behaviour and social interaction — using visual, activity-based learning to make the lesson simple, engaging and inclusive.

● Newspaper Craft Activity — Creativity and Teamwork

9 March 2026 | Mangalagiri | 38 boys

Student volunteers guided a hands-on craft session in which school students worked in teams to create useful items from newspaper sheets — combining creative expression, practical problem-solving and communication practice.





EVENTS AND INITIATIVES

Beyond structured campus programmes and outreach, SRM University–AP's academic calendar for 2025–26 carried a wide range of events contributing to SDG 4 — technical conclaves, faculty-development workshops, research days, literary festivals and hands-on skill-building sessions. Across the reporting period, SRMAP recorded a total of 315 unique events

mapped to SDG 4 university-wide. The events presented below were identified as the strongest and most directly relevant contributions to quality education.

315

Total unique SDG 4 events recorded in 2025–26

● Outcome-Based Education (OBE) Training Programme

9 July 2025 | 27 participants | Teaching Learning Centre

Helped faculty understand outcome-oriented curriculum planning, teaching practice and assessment methods, supporting institution-wide capacity building for quality teaching.









● 5-Day Training Programme on Teaching-Learning Methods for Newly Joined Faculty

14–18 July 2025 | 57 participants | Teaching Learning Centre

An intensive orientation strengthening the teaching capabilities of newly joined faculty through exposure to effective pedagogical practices for higher education.

● Enhancing Teaching and Learning with Google Classroom and ChatGPT

30 July 2025 | 58 participants | Teaching Learning Centre

Introduced faculty to AI-powered education platforms — Google Classroom, TeachEasy.ai and Khanmigo.ai — for technology-enabled lesson delivery and student engagement.







● Teaching Beyond the Classroom: Course Curation with Flipped & Blended Learning

3 September 2025 | 5 participants | Teaching Learning Centre

Guided faculty in designing flexible, learner-centred courses using flipped and blended-learning approaches that extend teaching beyond conventional classroom delivery.

● Workshop on Course Preparation

22 September 2025 | 24 participants | Teaching Learning Centre

Supported systematic course planning and alignment of teaching activities with intended learning outcomes, improving organisation of academic content delivery.





● Innovating the Classroom with Blockchain Technology

24 October 2025 | 18 participants | Teaching Learning Centre

Explored applications of blockchain in education, encouraging faculty to integrate emerging technologies into innovative teaching practice.

● AI-Powered Teaching Excellence with Khanmigo

1 November 2025 | 16 participants | Teaching Learning Centre

A hands-on session where faculty used AI tools to create lesson plans, learning objectives and assessment rubrics — demonstrating practical AI applications in instructional design.









● World Statistics Day 2025

31 October 2025 | Department of Mathematics

Marked the UN theme “Quality Statistics and Data for Everyone,” with sessions on data reliability, visualisation ethics and statistical literacy that strengthened student research skills and faculty-student academic exchange.

● QC² — Quantum Computing Conclave 2026

24 March 2026 | Department of Computer Science and Engineering

Built awareness of quantum computing among undergraduate, postgraduate and PhD students and faculty, exposing participants to an advanced and emerging area of technical education.







● Summer School: Reading the Past, Rethinking the Present

26 May 2026 | Department of History

Introduced school students to historical research through heritage walks, source analysis and policy-simulation exercises, building critical reasoning and research skills through experiential learning.

● Five-Day FDP: Embedding SDGs in Higher Education Curricula

Faculty Development Programme

Built faculty capacity in outcome-based education and sustainable pedagogy, and explored strategies for embedding SDG principles and circular-economy concepts into curricula.







● Amaravati Literature Festival 2025

22 October 2025 | Department of Literature and Languages

Brought together writers, scholars and students for dialogue on literature, culture and society under the theme “The Asian Century,” enhancing intellectual engagement and cultural appreciation.

● Integrating Traditions: A Symposium on Indian Knowledge Systems (IKS)

22 May 2026 | Department of Political Science

Introduced participants to Indian Knowledge Systems and encouraged interdisciplinary dialogue between humanities, sciences and technology, laying groundwork for future IKS research collaboration.







● Tenth Research Day

10 April 2026 | Department of Mathematics

An annual seminar promoting knowledge creation, research skills and dissemination of scientific findings, encouraging innovation and critical thinking university-wide.

● Hands-on VR and AI Development Workshop

30 January 2026 | Department of Computer Science and Engineering

A no-prerequisite workshop giving students hands-on experience building a mini VR project while learning core AI and large-language-model concepts inside a virtual environment.







● Young Innovators System Lab (YISL): AR/VR Innovation Workshop

7 April 2026 | Department of Computer Science and Engineering

An Indo-U.S. hands-on workshop, held with the Indo-U.S. Science and Technology Forum and STEAM Varsity, introducing immersive AR/VR technologies through project-based learning.

● Pi Day

14 March 2026 | Department of Mathematics

An annual celebration of the constant π featuring invited talks and discussions that generated enthusiasm for mathematics and encouraged logical thinking and problem-solving among students.







● ImmersiveX Ideathon

31 March 2026 | Department of Computer Science and Engineering

A one-day ideathon in which students pitched AR/VR-based solutions to real-world problems, fostering innovation and practical understanding of immersive technology.

LIBRARY & LEARNING RESOURCES

The SRM University–AP Central Library operates as the university's Digital Learning & Resource Centre, supporting students, faculty and researchers across Engineering and Sciences, Entrepreneurship and Management, and Liberal Arts and Social Sciences. Located on the 12th floor of the C.V. Raman Block, the fully air-conditioned, RFID-enabled library is automated using Koha library software and provides access to NPTEL video courses, e-PG Pathshala, SWAYAM and other Government of India e-learning initiatives.

4,59,458	54,536	35,835	881
E-books (JSTOR & DELNET)	*E-journals / e-magazines / e-newspapers*	*Print volumes*	*CD / DVD-ROM resources*

Source: SRM University–AP official website, Life at SRMAP — Library (srmap.edu.in/life-at-srmap/library).

Beyond its physical and digital collection, the library provides remote access tools for online journals, a mobile application (mLibrary) for on-the-go access, and an Online Public Access Catalogue for locating resources quickly. Institutional subscriptions to EBSCO and other databases extend research support across disciplines.

These resources directly reinforce SDG 4 by ensuring equitable, round-the-clock access to learning and research material for the entire university community — supporting coursework, faculty research and independent, lifelong learning alike.






RESEARCH & PUBLICATIONS

SRM University–AP's contribution to SDG 4 extends into research, with 26 Scopus-indexed publications (2025–2026) mapped to SDG 4: Quality Education in Elsevier's SciVal database. This body of work spans educational technology, pedagogy, inclusive education and higher-education policy, and reflects growing international engagement, with 26.9% of these publications co-authored with institutions in other countries.

26	0.72	7	44
SDG 4-mapped Scopus publications	*Field-weighted citation impact*	*Internationally co-authored works*	*Total citations*

Source: Elsevier SciVal, Activity of SRM University-AP within SDG 4: Quality Education, year range 2025–2026 (data last updated 30 August 2026).

Selected Research Contributions

Technology Empowered Teaching and Learning in Language Education: A Systematic Review — Dash, N. & Mohapatra, L.M. (2025). Reviews the growing role of digital technology in language-education pedagogy, consolidating evidence on how technology-enabled methods are reshaping teaching and learning practice.

Need of AI in Modern Education: In the Eyes of Explainable AI (xAI) — Manna, S. & Sett, N. (2025). Examines how explainable AI can be applied responsibly within modern education systems, supporting transparent and trustworthy AI-assisted learning tools.

Blockchain and AI for Educational Data Analytics in the Modern Education System — Madupuri, R. et al. (2025). Explores blockchain and AI applications for secure, data-driven analytics in education — directly aligned with SRMAP's own faculty training on blockchain in the classroom.

AI-Driven AR/VR Technologies for Adaptive Learning in Language Education — Ammu, A.L. & Panchikkil, S. (2026). Investigates how AI-driven AR/VR technology can enable adaptive, personalised language-learning experiences.

Integrating Sustainable Development Goals in Higher Education: A Review and Framework — Dutta, D., Moganti, L.K. & Kundu, D. (2026). Proposes a framework for embedding SDGs across higher-education curricula and institutional practice, complementing SRMAP's own FDP on embedding SDGs in curricula.

A Data Mining and Fuzzy Logic Hybrid Model for Enhancing Instructional Quality and Student Success in Higher Education — Siddavatam, R.P. et al. (2025). Develops a hybrid analytical model to improve instructional quality and predict student success, supporting data-informed teaching improvement.

Hybrid Random Forest and Logistic Regression Model for Predicting Student Academic Performance in Higher Education — Jamuna Rani, K. et al. (2025). Applies machine-learning models to predict student academic performance, offering a tool for early academic support and intervention.

Comparing NEP 2020 and International Education Systems: Contextual Limits, Critical Debates, and Possibilities for Adaptation in India — Thakur, S. (2026). Provides a critical comparative analysis of India's National Education Policy 2020 against international systems, informing policy-level debate on educational reform.

CONCLUSION

Across 2025–26, SRM University–AP's contribution to SDG 4 has been built on tangible, verifiable action: seven structured faculty-development programmes reaching 205 participation instances, 315 recorded SDG 4-linked events university-wide, focused community outreach reaching several hundred school and rural-youth beneficiaries, a library serving the entire campus with close to half a million e-books and over 35,000 print volumes, and 26 Scopus-indexed publications advancing the global conversation on educational technology, pedagogy and access.

Taken together, these efforts show an institution strengthening quality education from multiple directions at once — improving how its own faculty teach, how its students learn, how its neighbouring communities access educational opportunity, and how new knowledge about education itself is created and shared. SRM University–AP remains committed

to deepening this contribution in the years ahead, expanding access, innovation and inclusion in education for its campus and beyond.

SDG 5

GENDER EQUALITY

INTRODUCTION

Achieve gender equality and empower all women and girls

Gender equality is not a single programme at SRM University–AP — it is a thread that runs through admissions, campus life, staff welfare, research and community outreach.

SDG 5 calls for ending discrimination and violence against women and girls, valuing unpaid care work, ensuring full and effective participation in leadership, and guaranteeing equal rights to resources and opportunity. At SRM University–AP, this goal is advanced through a combination of structural support systems and active, year-round programming rather than a single standalone initiative.

During the 2025–26 academic year, the University strengthened gender equality through dedicated safety and grievance mechanisms — including mandatory POSH awareness sessions and gender-sensitisation workshops delivered to the entire incoming student cohort — alongside family-friendly infrastructure such as an on-campus Day Care facility, and a growing body of faculty-led research examining gender, health, safety and representation. Beyond the campus boundary, students and faculty carried these same commitments into the surrounding community: menstrual-health drives in local schools and children's homes, financial-literacy sessions with women's self-help groups, and vocational training for women entrepreneurs across Guntur and Vijayawada.

This section presents SRM University–AP's SDG 5 contribution for 2025–26 across four dimensions: the people and support systems that make the campus safe and inclusive; the outreach that extends this commitment into the community; the events and initiatives that built awareness, dialogue and celebration; and the research that adds evidence to the global conversation on gender equality.

GENDER EQUALITY, INCLUSION & CAMPUS INITIATIVES

SRM University–AP tracks the gender composition of its student body, faculty and staff as a standing baseline for its SDG 5 commitments. Rather than raw headcounts, the ratios below give a clearer picture of where the University stands today, and where continued attention is needed.

Campus Gender Ratios (2025–26)

63 : 37	49 : 51	79 : 21	66 : 34
Student Body (M:F)	*PhD Scholars (M:F)*	*Faculty (M:F)*	*Staff (M:F)*
UG + PG + PhD	near gender parity	all cadres	non-teaching

The overall student population reflects the University's strong intake into engineering and technology programmes nationally, which continue to attract more male applicants. That gap, however, narrows sharply at the doctoral level: SRM AP's PhD cohort stands at close to gender parity (49% male : 51% female), pointing to real progress in encouraging and retaining women in research careers.

Among faculty, women's representation is highest in the ad-hoc/contract cadre (34.6%) compared with associate professors (7.7%) and professors (8.8%) — a pipeline the University can build on when converting contract roles into permanent

positions. Non-teaching staff stand at roughly one-third women. Taken together, these ratios give SRM AP a transparent baseline against which to measure future SDG 5 progress in enrolment, hiring and promotion.

Day Care — Supporting Work-Life Balance

Access to reliable childcare is one of the most direct enablers of women's workforce participation. SRM University–AP operates an on-campus Day Care facility for the children of faculty and staff, located within the residential campus. The centre provides a safe, colourful, child-friendly play environment with age-appropriate learning materials, wall charts and toys, together with access to an outdoor play area shared with the surrounding residential blocks.

Facilities of this kind are a concrete, everyday expression of SDG 5's emphasis on recognising and easing the burden of unpaid care work — allowing parents, and particularly mothers, to remain economically active without compromising on their children's care. It is a small but telling marker of SRM AP's ambition to be a genuinely family-friendly employer.







OUTREACH

Beyond the campus, SRM University–AP's students and faculty carried SDG 5 into the surrounding community through NSS-led drives and course-embedded social-responsibility projects — reaching schoolgirls, children in residential care, women's self-help groups and women entrepreneurs across Guntur and Vijayawada.

● Menstrual Hygiene Awareness & Sanitary Pad Distribution

OUTREACH

Purpose: Educate students on menstrual health and hygiene, and break associated stigma

Outcome: Increased understanding of menstrual health among participants and distribution of hygiene essentials





● "Seva Shakti" — Gender Equality, Yoga, Meditation & Inspiring Stories

OUTREACH · VAC 507 SAMAJ SEVA

Purpose: Build gender-equal mindsets and emotional wellbeing among school children through yoga, meditation and career storytelling

Beneficiaries: Students of ZPHS Revendrapadu and ZPHS Pedavadlapudi, Guntur district

Partner organisation: The Akshaya Patra Foundation

Activity: A four-week, PSB student-led engagement combining hand-sanitation demonstrations, yoga and meditation, career-aspiration storytelling, and a dedicated gender-equality module challenging “gendered” career stereotypes

Outcome: In a post-activity evaluation, 75% of participating students agreed that “ability defines a career, not gender”, alongside measured gains in hygiene practice and nutrition awareness





● Menstrual Hygiene Awareness Session

OUTREACH · VAC 507 SAMAJ SEVA

Purpose: Educate adolescent girls in residential care about menstrual health and hygiene in a safe, comfortable setting

Beneficiaries: 36 children at Sharon Charitable Trust Children's Home, Navuluru, Vijayawada

Partner organisation: Sharon Charitable Trust Children's Home

Outcome: Reduced hesitation and stigma around menstruation, improved hygiene understanding, and distribution of sanitary and personal-care essentials

● “EmpowHer Finance” — Financial Literacy & Savings Awareness for Women SHGs

OUTREACH · VAC 507 SAMAJ SEVA

Purpose: Build financial literacy, savings discipline and banking awareness among women self-help group leaders

Beneficiaries: 29 SHG leaders under SERP and MEPMA, Vijayawada and Gollapudi

Partner organisation: Maarpu Trust

Outcome: Improved understanding of budgeting, savings habits, banking services and government financial schemes among SHG leaders





● “Impact Makers” — Vocational Training for Women

OUTREACH · VAC 507 SAMAJ SEVA

Purpose: Equip women from economically weaker sections with practical, income-generating vocational skills

Beneficiaries: 20 women, Tuffan Nagar, Guntur

Partner organisation: Garikipati Jayasree, State Chairman, Inner Wheel District 315

Activity: Hands-on training in preparing household products (detergent powder, phenyl, soap oil, pain balm), alongside basic marketing, pricing and customer-handling skills

Outcome: Enhanced confidence and skills toward self-employment and financial independence among participants





EVENTS AND INITIATIVES

Across the 2025–26 academic year, SRM University–AP organised 18 verified events mapped to SDG 5 — spanning mandatory safety and sensitisation sessions for the entire incoming student body, invited lectures and international conferences engaging gender theory, and public celebrations of women's leadership. The strongest of these, with full event reports and photographic documentation, are profiled below.

18	3,536	2	566
SDG 5 Events verified, 2025–26	*Reached — POSH Session* incoming students & faculty	*International Keynotes* Breaking Barriers conference	*Attended Women's Day 2026* single flagship event

● AI and Transfeminism

FEATURED EVENT

Nature: Invited Lecture · Department of Political Science, ESLA

Date: 17 September 2025

Speaker: Julio César Díaz Calderón (They/Them) — trans/feminist activist-scholar, data scientist and poet; Data + Feminism Lab, MIT (USA), IDEAS, JGU (India), and CEIICH & IMATE, UNAM (Mexico)

Participation: 84 attendees, including faculty, PhD scholars and undergraduates

The lecture examined the intersections of Artificial Intelligence and trans/feminist thought through critical and decolonial perspectives, using case studies — a Mexican fintech expanding financial inclusion through AI, and MIT's Data + Feminism Lab projects such as Data Against Feminicide — to argue that engaging AI responsibly requires including women and LGBTQ people throughout the design and deployment of AI-led products.





● Breaking Barriers: Reimagining Centre–Margin Dynamics from Interdisciplinary Perspectives

FEATURED EVENT

Nature: Second International Conference · Department of Literature and Languages, ESLA

Date: 17–18 December 2025

Keynote speakers: Professors from Delhi University, University of Alabama, King's College London, Burdwan University and West Bengal State University

Participation: 62 attendees across faculty, scholars and students

The conference interrogated entrenched centre–margin hierarchies across governance, identity, knowledge and belonging, with dedicated tracks on intersectionality and multilayered marginalisation, gender-based digital hierarchies, and bias in large language models — providing a strong interdisciplinary platform for examining gender-based inequality and inclusion.





● 50th All India Sociological Conference (AISC) 2025

FEATURED EVENT

Nature: Technical Conference · Department of Sociology and Anthropology, ESLA

Date: 28–30 December 2025

Theme: "Mobilities and Inequalities: Shifting Contexts, Changing Paradigms"

Partner: Indian Sociological Society, New Delhi

Participation: 422 total participants (reported), drawing scholars from across India

Hosted by SRM AP in partnership with the Indian Sociological Society, the conference examined how caste, class, gender, tribe, religion and region shape differential access to mobility and resources — explicitly identifying gender as a key axis of inequality within the conference's theoretical and policy discussions.





Further SDG 5 Events, 2025–26

POSH – Creating a Safe, Inclusive and Respectful Campus for All (20 Aug 2025) — A mandatory sensitisation programme on the Prevention of Sexual Harassment (POSH) Act, 2013, led by Ms Usha Pantula, Vice-Chairwoman, CII Indian Women Network AP, reaching 3,533 incoming students and 3 faculty.

"Respecting Differences, Embracing Equality" — Gender Sensitivity Session (20 Aug 2025) — A university-counsellor-led interactive session for incoming students on gender diversity, unconscious bias and inclusive behaviour, reaching 3,553 attendees.

Menstrual Awareness Session — Mission Shakti (20 Feb 2026) — An NSS outreach drive at Don Bosco High School, Mangalagiri, combining expert medical consultation, eco-friendly sanitary pad distribution and an interactive Q&A for local schoolgirls.

Women's Day 2026 (6 Mar 2026) — The University's flagship gender-equality celebration at the APJ Abdul Kalam Auditorium, with Rayapati Sailaja (Chairperson, AP State Women's Commission) as Chief Guest, alongside Indu S. Menon (GM HR & Admin, Isuzu Motors India) and Major Avinashi Patwal as Guests of Honour; the programme also felicitated women staff from security and housekeeping.

Additional SDG-5-aligned academic activity during the year included the VAC-507 Samaj Seva community-engagement course for MBA students, a Summer School on historical thinking for school students, the invited lecture "Critique as Body-Work," a book discussion marking 75 years of the Indian Constitution, and a workshop on storytelling as a research methodology — each contributing, through themes of inclusion, marginalisation and representation, to the University's wider SDG 5 engagement.

RESEARCH & PUBLICATIONS

SRM University–AP's research output on gender equality spans corporate governance, political representation, gender-based violence, health, care work, financial inclusion and the ethics of emerging technology. The University's Scopus-indexed activity against SDG 5 for the 2025–26 window is summarised below, followed by a selection of the strongest and most directly relevant publications.

19	1.51	15.8%	488
Scholarly Outputs SDG 5, 2025–26	*Field-Weighted Citation Impact* above world average	*International Collaboration* co-authored publications	*Views Count* across outputs

Publications

The Impact of Women on Corporate Boards on Intellectual Capital Efficiency and Business Performance in Sub-Saharan Africa — Examines how women's representation on corporate boards translates into measurable gains in intellectual capital efficiency and firm performance — direct evidence for the business case behind gender-diverse leadership.

The Intersection of Culture and Politics: Understanding Women's Underrepresentation in Indian Democracy — Investigates the cultural and political barriers behind women's persistent underrepresentation in elected office in India, contributing to debates on inclusive democratic participation.

Financial Inclusion, Access and Female Labour Participation in Sub-Saharan Africa — Analyses how access to financial services shapes women's labour-force participation, and the institutional conditions under which financial inclusion most benefits women economically.

Interlinkages Between Intimate Partner Violence and Adverse Pregnancy Outcomes among Indian Women — A public-health study connecting experiences of intimate partner violence to maternal and pregnancy health outcomes, with direct relevance for gender-responsive healthcare policy.

Bodies That Speak: Autobiography as Psychosexual Liberation and Resistance in Kamala Das's My Story and A. Revathi's The Truth About Me — A literary study reading autobiographical writing by a woman writer and a transgender activist-author as acts of resistance, broadening the scope of gender scholarship to include trans narratives.

Spatial Terror: Towards a Feminist Theory of Gendered Space in Postcolonial India — Develops a feminist theoretical framework for understanding how public and private space is gendered in postcolonial India, with implications for women's safety and mobility.

Sexual Slander Against Women Politicians: A Case in Kerala — Documents the use of sexual slander as a tool to undermine women in electoral politics, evidencing a specific and underexamined barrier to women's political participation.

Unpacking New Forms of Labour Market Segmentation: Gender and Informality in Urban India — Traces how gender interacts with informality to segment urban labour markets in India, informing policy on decent work and economic inclusion for women.

SAFE AI: Designing a Gender-Responsive and Child-Safe AI Framework — Proposes a design framework for artificial intelligence systems that are explicitly gender-responsive and child-safe, connecting frontier technology research to SDG 5 principles.

CONCLUSION

From awareness to action: SRM University–AP's SDG 5 activity in 2025–26 traces a coherent line connecting everyday campus support systems to community-facing outreach, public dialogue, and published research.

Taken together, SRM University–AP's SDG 5 activity in 2025–26 shows a genuine progression from awareness to institutional practice. Orientation-stage sessions on POSH and gender sensitivity set behavioural expectations for over 3,500 incoming students each year; a Day Care facility and a near gender-balanced PhD cohort show inclusion being built into everyday campus infrastructure, not just policy; eighteen SDG-5-mapped events and a high-impact portfolio of published research

kept gender equality on the academic agenda; and outreach programmes carried that same commitment into schools, children's homes and women's self-help groups across Guntur and Vijayawada district.

Faculty and senior-leadership gender ratios remain an area for continued attention, and the University has the data in hand to track its progress. As SRM University–AP looks ahead, it is well positioned to build on this foundation — deepening its research footprint, widening its outreach, and working toward greater gender parity across faculty and leadership ranks — in service of a genuinely equal campus and community.

SDG 6

CLEAN WATER AND SANITATION

INTRODUCTION

Ensuring availability and sustainable management of water and sanitation for all, across the SRM University-AP campus and its neighbouring communities.

SDG 6 - Clean Water and Sanitation - calls for universal access to safe drinking water and sanitation, the efficient and sustainable use of freshwater resources, and the treatment and safe reuse of wastewater. For a residential university campus such as SRM University-AP, this goal translates directly into how water is sourced, treated, distributed, consumed and returned to the environment every single day.

SRM University-AP approaches SDG 6 as a campus-wide water stewardship programme rather than a single initiative. The University operates its own network of water treatment plants, sewage treatment plants and reverse-osmosis units to secure a safe and continuous supply of potable water while treating and reusing wastewater generated across hostels, academic blocks and dining facilities. This is complemented by an extensive rainwater-harvesting network, borewell-recharge structures, low-flow plumbing fixtures and dual-flush sanitation systems that together reduce freshwater withdrawal and support groundwater recharge.

Beyond infrastructure, the University's academic and outreach ecosystem actively advances SDG 6 - through classroom and industry-linked teaching on water treatment and circular-water concepts, technical events and exhibitions, community outreach on hygiene and safe water practices in neighbouring schools and villages, and a growing body of peer-reviewed research on water treatment, water quality and wastewater valorisation. The sections that follow present this work under four heads: campus water infrastructure and facilities, community outreach, events and initiatives, and research and publications, concluding with the University's overall SDG 6 impact story.

WATER MANAGEMENT & CAMPUS FACILITIES

SRM University-AP meets its campus water requirements through a self-operated network of treatment, distribution and reuse infrastructure. The figures below, drawn from the University's Annual Sustainability Report data, summarise the scale of this system before each facility is described in detail.

Water at a Glance

4,60,827 m³ *Total annual water consumption*	**105 L** *Per-capita consumption / day*	**65,853 m³** *Potable water inflow / month*	**45,599 m³** *Potable water treated / month*
7 *Water Treatment Plants (1,950 m³/day)*	**4** *Sewage Treatment Plants (1,893 m³/day)*	**7** *RO Plants (13,750 LPH capacity)*	**31,669 m³** *Wastewater treated / month*
11 *Rainwater harvesting systems*	**3,045 m³** *Rainwater harvested / year*	**297 m³** *Greywater reused / month*	**14** *Open borewells on campus*

4,059	486	457	124 + 2
Taps - all low-flow fixtures	*Washrooms across 6 campus zones*	*Dual-flush toilets installed*	*Water storage tanks (in / outside campus)*

● Sewage Treatment Plants (STPs)

Treating wastewater at source

SRM University-AP operates four Sewage Treatment Plants with a combined capacity of 1,893 m^3 per day, together with the University's broader wastewater-treatment facilities rated at 1,908 m^3 per day.

These plants treat sewage generated across hostels, academic blocks and dining facilities before it is discharged or reused. On average, the University generates about 70,614 m^3 of wastewater every month, of which 31,669 m^3 is treated monthly before discharge, and roughly 15 kg of sludge is generated per month during the process.

SDG 6 relevance: continuous sewage treatment prevents untreated wastewater from reaching the environment and is the foundation for the campus's water-reuse programme.



Sludge holding and management

Sludge separated during sewage treatment is collected in dedicated sludge-holding tanks before further handling, keeping the treatment lines clear for continuous operation.

This step supports safe, hygienic disposal of treatment by-products and is an integral part of the University's approach to responsible wastewater management under SDG 6.



● Water Treatment Plants (WTPs)

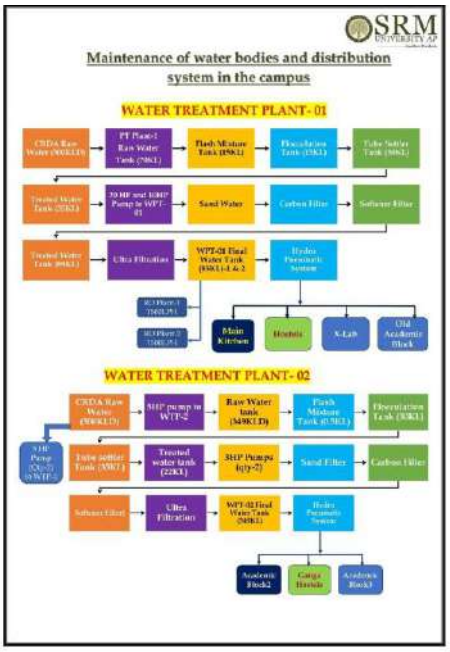
The campus draws raw water and processes it through seven Water Treatment Plants with a combined capacity of 1,950 m^3 per day. Four of these plants (WTP-01 to WTP-04) follow a documented multi-stage process - flash mixing, flocculation, tube settling, sand filtration, carbon filtration, softening and ultrafiltration - before the treated water is pushed through a hydro-pneumatic distribution system to the Main Kitchen, hostels, X-Lab, academic blocks and other campus destinations.

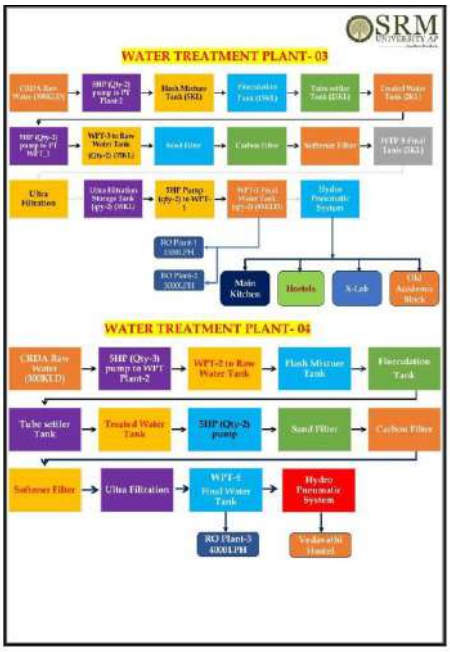
Multi-stage treatment train

Pressure sand filters, activated-carbon filters and softeners installed in sequence remove suspended solids, organic matter and hardness from raw water before it proceeds to ultrafiltration.

Each plant is sized to serve specific campus zones - for example, WTP-01 supplies the Main Kitchen, hostels, X-Lab and the Old Academic Block, while WTP-04 supplies the Vedavathi Hostel.







- **Reverse Osmosis (RO) and Ultrafiltration**

Polishing treated water for potable use

Seven RO plants, with a combined capacity of 13,750 litres per hour, provide a final polishing stage for drinking-water supply across the campus.

Ultrafiltration storage tanks - such as the 35 KL UF storage tank shown alongside - buffer filtered water ahead of RO treatment, ensuring a steady, safe potable-water supply even during peak demand.







- **Treated Water Storage & Distribution**

Metered storage for reliable supply

Treated water is held in gauged storage tanks - each marked with calibrated level indicators - before being pumped into the campus distribution network through hydro-pneumatic systems.

Of the potable water treated, around 51,558 m^3 is consumed on campus each month, with the balance of about 11,950 m^3 accounted for as water lost during the treatment process.



- **Greywater Recycling & Reuse of Treated Water**

Closing the water loop

SRM University-AP reuses treated wastewater for gardening, lawn maintenance and toilet flushing, with approximately 297 m^3 of greywater recycled every month.

This directly reduces the campus's dependence on fresh water for non-potable uses and reflects the circular approach to water management that underpins the University's SDG 6 efforts.









● Rainwater Harvesting

The campus operates 11 rainwater-harvesting systems with a combined storage capacity of 22 m^3, connected to a rooftop catchment area of 4,441.63 sqm. Together, these systems harvested approximately 3,045 m^3 of rainwater over the year, helping recharge groundwater and reduce pressure on freshwater withdrawal.



● Constructed Water Bodies & Tanks

On-campus water storage landscape

Constructed ponds and water bodies within the campus landscape add to the University's overall water-storage and ecological buffering capacity, complementing the 124 tanks maintained inside the campus and 2 tanks maintained outside it.

These water bodies also support local biodiversity and help manage surface run-off during the monsoon.



● Borewell Network & Groundwater Recharge

The campus maintains 14 open borewells that supplement the water supply drawn from treated surface sources. Dedicated recharge structures are installed alongside select borewells to direct collected rainwater back into the ground, reinforcing the same groundwater table that the borewell network draws upon.



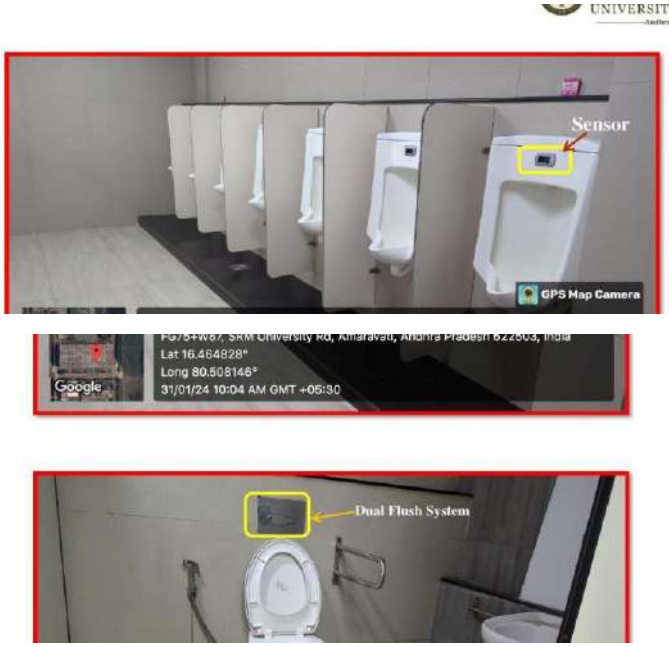


2. Borewell /Open well recharge



● Water-Efficient Fixtures & Sanitation Infrastructure

Water efficiency at SRM University-AP extends down to individual fixtures. All 4,059 taps installed across the campus are low-flow fixtures, reducing water draw at the point of use. Sanitation infrastructure spans 486 washrooms across the University's six major zones - Hostel Block (HB), Value Stream/VS, X-Lab, Student Residences (SR), CVR and JC - of which 457 are fitted with dual-flush toilet systems, and several washrooms additionally use sensor-based fixtures to minimise water wastage.



Zone	HB	VS	X-Lab	SR	CVR	JC
Total washrooms	48	72	24	120	192	30
Male washrooms	24	36	9	60	96	15
Female washrooms	24	36	15	60	96	15

Zone	HB	VS	X-Lab	SR	CVR	JC
Dual-flush toilets	48	72	24	91	192	30

Washroom distribution and dual-flush fitment across the six major campus zones (Annual Report data).

OUTREACH

SRM University-AP's SDG 6 commitment extends beyond the campus boundary into the surrounding schools and communities of Mangalagiri and neighbouring villages. Through the University's social-outreach programme, student and faculty teams have run water-and-sanitation surveys, hygiene-awareness sessions and cleanliness drives that carry safe-water and sanitation practices directly to the people who need them most.

6
Community outreach activities on water & sanitation

288+
Students, residents & schoolchildren reached

● "H2-Oh! The Truth About Water and Sanitation"

Sri Vidyalaya EM High School, Edupugallu | 108 participants

A dedicated SDG 6 project in which a student team surveyed 108 community members and students on the accessibility, reliability and quality of their drinking water and sanitation facilities.

The team identified practical gaps such as unsafe water storage and limited awareness, and followed up with on-site awareness sessions on safe water storage, handwashing and proper sanitation practices.





● Hand Washing Techniques for Orphanage Students

Mangalagiri | 25 participants

An awareness session for orphanage students on personal hygiene and disease prevention, explaining why handwashing matters and demonstrating the correct technique - wetting hands, applying soap, and scrubbing every part of the hand.





● Hygiene Awareness Program

Government School, Mangalagiri | 63 participants

A visit to a local government school where storytelling and interactive games such as "Clean or Dirty" were used to teach primary-school students everyday hygiene habits and encourage healthy behaviour.





● Hygiene Awareness Activity (with SDG 3 - Good Health and Well-Being)

ZPHS Revendrapadu and ZPHS Pedavadlapudi | 7 external participants recorded

An outreach session creating awareness among school students on personal hygiene and cleanliness, covering daily practices such as proper handwashing, oral care, bathing and maintaining clean surroundings.





● Swachh Bharat Cleanliness Drive & Awareness Program

Government Primary School, Neerukonda | 42 participants (35 external + 7 faculty)

A cleanliness drive undertaken with students and teachers to promote hygiene and sanitation, addressing everyday hygiene, health and environmental conditions at the school through structured community activities.





● Cleanliness and Waste Management Student Engagement Program

Mangalagiri | 43 students

A school-based awareness programme on cleanliness, waste management and personal and environmental hygiene, engaging students through both awareness talks and hands-on activities to build responsible cleanliness behaviour.





EVENTS AND INITIATIVES

The University's event records for the 2025-26 academic year identify seven unique events tagged to SDG 6, spanning invited lectures, industrial exposure visits, an industry co-teaching module, a national-level sustainability exhibition and a technical conference. Counted once each to avoid double-counting events that also align with other SDGs, these seven events together engaged close to 950 participant-instances of students, faculty and external stakeholders.

7	~950
Unique SDG 6-tagged events, 2025-26	*Cumulative participant engagements*

● Advancing Water Treatment: From Electrochemical Oxidation to Electrified Membranes

Department of Chemistry | Guest Lecture | 5 March 2026 | 32 participants

An expert guest lecture introducing electrochemical oxidation and electrified-membrane systems capable of removing pharmaceuticals, dyes, pathogens and other emerging contaminants from water, while highlighting energy-efficient, chemical-free treatment approaches.

This was the strongest SDG 6-aligned event of the year: its entire focus was safe, clean and sustainable water and wastewater treatment technology.





● Industrial Exposure and Experiential Learning Visit - APGENCO

Department of Environmental Science and Engineering | 10 December 2025 | 39 participants

An academic visit to the Dr. Narla Tatarao Thermal Power Station that gave students first-hand exposure to large-scale water-treatment processes alongside pollution-control technologies, environmental monitoring and regulatory-compliance practices at an operating industrial facility.





● Industry Co-teaching (ENV 250)

Department of Environmental Science and Engineering | 22 Jan - 6 Feb 2026 | 62 participants

Industry-led co-teaching sessions covering resource recovery, the circular economy and the waste-management hierarchy, with sustainability concepts including Zero Liquid Discharge that connect directly to preventing uncontrolled wastewater discharge under SDG 6.



● Industrial Exposure and Experiential Learning Visit - Jindal Urban Waste Management (JUWM)

Department of Environmental Science and Engineering | 12 September 2025 | 29 participants

A field visit to an integrated municipal solid-waste and waste-to-energy facility that also covered leachate treatment and zero-discharge practices, reinforcing student understanding of how industrial operations protect water resources from contamination.





● Environmental Sustainability Exhibition (ESE-3.0)

Department of Environmental Science and Engineering | 19 September 2025 | APJ Abdul Kalam Auditorium | 342 participants

Now in its third year, ESE-3.0 showcased undergraduate-led sustainability initiatives and drew strong participation from institutions across Andhra Pradesh and Telangana, growing from a national platform into a recognised Southern-India forum for sustainability dialogue.

The exhibition featured student projects and discussions spanning environmental themes including water conservation and responsible resource use, alongside prize-supported recognition for outstanding student initiatives.





Additional SDG 6-tagged activities

Two further events on record for the year carry an SDG 6 tag alongside their primary focus, and are noted here for completeness:

• Real-Time Exposure and Experiential Learning Visit - a public-hearing/EIA field visit (5 December 2025, 25 participants) that touched on environmental and water-related impact assessment as part of a broader regulatory-process learning exercise.

• Green Hydrogen Summit 2025 - a national conference (18-19 July 2025, 418 participants) primarily focused on clean-energy policy and innovation, tagged to SDG 6 for its broader sustainable-resource-management relevance.

RESEARCH & PUBLICATIONS

Between 2025 and 2026, SRM University-AP produced a substantial body of Scopus-indexed research aligned with SDG 6, spanning water and wastewater treatment, drinking-water quality, groundwater management and water-resource sustainability. As per SciVal data (last updated 30 August 2026), the University's SDG 6 research activity stands at the following levels:

111 *SDG 6 scholarly publications, 2025-26*	**1.38** *Field-Weighted Citation Impact*	**61** *Publications with international collaboration*
2,512 *Total views across SDG 6 publications*	**537** *Total citations received*	**55%** *Share of internationally co-authored papers*

Recurring keyphrases across this body of work - including biochar, wastewater treatment, emerging contaminants, heavy metals, microalgae, pyrolysis, water scarcity and biological water treatment - point to a research programme concentrated on practical, technology-driven solutions for water treatment and contaminant removal.

Selected Publications of Direct SDG 6 Relevance

From the 112 publications recorded for 2025-26, the following are among the most directly relevant to clean water, sanitation and wastewater management on and around the University's own campus context:

Towards Net-Zero Campuses: Sustainable Solutions in University Sewage Treatment with HSFCW and Pseudomonas Actinomycetotermes (2026) - explores hybrid subsurface-flow constructed wetlands for university sewage treatment - research with direct application to campus-scale sewage systems such as SRM University-AP's own STPs.

Digital Twins as a Transformative Framework for Intelligent Water and Wastewater Management (2026) - examines how digital-twin technology can be used to monitor and optimise water and wastewater treatment operations in real time.

Balancing Safety and Sustainability: Sustainable Approaches to Reducing Disinfection By-Products in Drinking Water (2025) - reviews methods to minimise harmful by-products formed during drinking-water disinfection, balancing safety with sustainability.

Integrated Assessment of Fluoride Occurrence and Groundwater Usability: A Critical Concern for Drinking Water Sustainability (2025) - assesses fluoride contamination in groundwater and its implications for long-term drinking-water sustainability.

Harnessing Bio-Nano Hybrid Column for Sustainable Treatment of Reverse Osmosis Concentrate: A Decentralised Water Treatment Approach (2025) - proposes a decentralised treatment method for RO concentrate, a waste stream directly relevant to the University's own RO-based water-treatment operations.

Secured Smart Water Resource Management: An Incentive-Based Blockchain Use Case (2025) - presents a blockchain-based framework to secure and incentivise smarter, more accountable water-resource management.

Enhancing Access to Rainwater Harvesting in Regions with Saline Groundwater (2025) - investigates rainwater harvesting as a freshwater option for communities affected by saline groundwater, complementing the University's own rainwater-harvesting programme.

Water Withdrawal Trends Across Multiple UN Member Nations Using Time Series Forecasting (2026) - applies forecasting models to global water-withdrawal data, contributing to the evidence base for long-term water-resource planning.

Drinking Water Contamination by Microplastics in India: Comparative Analysis, Risk Assessment and Global Implications (2026) - evaluates microplastic contamination in Indian drinking water and its associated health-risk implications.

Arsenic Removal Technologies: From Challenges to Innovative Solutions (2025) - reviews emerging technologies for removing arsenic from water supplies, a persistent drinking-water-quality challenge in several regions of India.

CONCLUSION

From conserving and treating water on campus, to reusing it responsibly, safeguarding sanitation, and extending awareness through outreach, events and research - each strand reinforces sustainable water management at SRM University-AP.

Taken together, SRM University-AP's SDG 6 performance in 2025-26 reflects a campus that treats water as a resource to be managed end-to-end rather than simply supplied. Seven Water Treatment Plants and four Sewage Treatment Plants process hundreds of thousands of cubic metres of water every year; eleven rainwater-harvesting systems and a network of borewell-recharge structures work to replenish what is drawn from the ground; and greywater reuse, low-flow fixtures and dual-flush sanitation reduce demand at the point of use. Around 950 participant-instances engaged with SDG 6 through campus events in the past year alone, while six community outreach activities carried safe-water and hygiene practices into schools and neighbourhoods beyond the campus gate.

This operational commitment is matched by a growing research contribution - 111 SDG 6-aligned publications with meaningful international collaboration - that positions the University not only as a consumer of water-management best practice but as a contributor to it. As SRM University-AP's campus continues to grow, the priority going forward is to deepen this integration further: expanding treated-water reuse, strengthening groundwater recharge relative to withdrawal, and continuing to translate the University's research strength in water treatment into practice on its own campus and in the communities it serves.

SDG 7

AFFORDABLE AND CLEAN ENERGY

INTRODUCTION

SDG 7 calls for universal access to affordable, reliable, sustainable and modern energy, and for a decisive shift toward renewable sources, improved energy efficiency and cleaner technologies. For a growing residential university campus, this goal translates into concrete choices — how buildings are powered, how waste is turned into energy rather than discarded, how people move around campus, and how research and teaching prepare students to build the clean-energy systems of tomorrow.

SRM University–AP has approached SDG 7 as a campus-wide commitment rather than a single initiative. Rooftop solar installations across academic and residential blocks now meet a measurable share of campus electricity demand; a dedicated biogas plant converts kitchen and organic waste into clean cooking energy; an electric-vehicle fleet supports sustainable mobility within the campus; and large-scale LED and sensor-based retrofits continue to drive down energy intensity per square metre. These efforts are reinforced by academic programmes, invited lectures, workshops and industry visits that build student and faculty capability in renewable energy, power electronics and sustainable transport, and by a growing body of peer-reviewed research spanning green hydrogen, solar photovoltaics, battery technologies and energy policy.

This section presents SRM University–AP's verified SDG 7 performance for the 2025–26 reporting cycle — campus energy and renewable-energy facilities, outreach and awareness activities, events and initiatives, and research and publications — drawing exclusively on the University's own reported data, photographic records and bibliometric exports.

CLEAN ENERGY & CAMPUS FACILITIES

Campus energy performance is tracked annually across consumption, renewable generation and efficiency infrastructure. The figures below are drawn directly from SRM University–AP's FY 2025–26 Annual Report data submission.

Energy at a glance

2.07 Cr
Total annual energy consumption
kWh / year (20,666,400)

89.6
Energy use per floor area
kWh / m² / year

56,620
Average daily energy consumption
kWh / day

₹1.68 Cr
Average monthly energy cost
₹16,781,672.75 / month

Renewable energy

959
Installed solar capacity
kWp

10.12 L
Solar energy generated / consumed
kWh / year (1,012,430.44)

4.8%
Share of campus energy met by solar
of total consumption

3
New renewable-energy projects
initiated in FY 2025–26

Efficiency & e-mobility infrastructure

17	27,783	1,303	8
Buildings with energy monitoring systems installed	*LED fixtures installed campus-wide* energy-efficient lighting	*Sensor-based equipment units* occupancy / demand-linked	*Electric vehicles in operation* combined capacity: 89

Source: SRM University–AP Annual Report data submission, FY 2025–26 (SDG_7_related_data.xlsx).

● Rooftop Solar Power Plants

SRM University–AP has installed rooftop solar photovoltaic systems across multiple hostel blocks and academic buildings, together contributing to the campus's 959 kWp installed solar capacity. The aerial views below show dense rooftop solar coverage across residential blocks, generating renewable electricity that is fed into the campus grid alongside dedicated inverter and monitoring units.









● Solar Grid-Interface & Monitoring Units

Grid-tied inverter and monitoring units (Geesys) installed alongside the rooftop arrays manage the conversion and integration of solar-generated electricity into the campus power network, supporting the tracking of renewable output as part of the University's 17 building-level energy monitoring systems.



● Solar Initiatives — Official Campus Summary

The University's sustainability communications highlight rooftop solar as a flagship clean-energy and climate initiative, spanning academic and residential blocks — reflecting its dual contribution to SDG 7 (Clean Energy) and SDG 13 (Climate Action).

● Biogas Plant — Organic Waste to Clean Energy

The campus biogas plant converts kitchen and organic waste into biogas, closing the loop between waste management and clean energy generation. Segregated food waste is collected daily, processed through composting and digestion, and the resulting biogas is piped directly to a kitchen stove for use as cooking fuel — a working demonstration of decentralised, waste-derived clean energy on campus.









● Organic Waste Composting Unit (OWC-60)

An organic waste composting machine processes food and green waste collected from campus kitchens and dining facilities, producing compost as a by-product alongside the biogas stream — reducing organic waste sent to landfill while supporting on-campus clean-energy generation.



● Biogas Plant — Official Campus Summary

The University's own sustainability communications summarise the biogas plant as converting organic waste into clean energy — reinforcing the facility's dual contribution to SDG 7 (Clean Energy) and SDG 13 (Climate Action).

● Electric Vehicles & Sustainable Mobility

SRM University–AP operates a fleet of 8 electric vehicles (combined capacity: 89) for on-campus transport, replacing fossil-fuel-based shuttles for short-distance and last-mile mobility across the campus and supporting SDG 7's sustainable-transport dimension alongside SDG 11 and SDG 13 co-benefits.





OUTREACH

● Environmental Sustainability Exhibition (ESE–3.0)

Sept 2025 | APJ Abdul Kalam Auditorium, SRM University-AP | 342 participants recorded

A public-facing exhibition showcasing undergraduate-led sustainability initiatives, run for the third consecutive year to build awareness of pressing environmental and energy challenges among students, faculty and visiting institutions from Andhra Pradesh and Telangana. The event was organised by the Department of Environmental Science and Engineering under the Office of the Dean, SEAS.

Outcome: Reported response of over 150 registrations from partner institutions, with ₹80,000 distributed in prizes to encourage sustainability-driven problem solving; reinforced the event's role as a regional platform for sustainability awareness and inter-institutional collaboration.

● Industrial & Experiential Learning Visits

Oct–Dec 2025 | Partners: APGENCO (NTTPS Thermal Power Station), Jindal Urban Waste Management Ltd., BPCL public hearing | 25–39 participants per visit

Students from the Department of Environmental Science and Engineering undertook field visits to a thermal power generation station, an integrated municipal waste-to-energy facility, and a statutory public hearing for an industrial project, connecting classroom learning on energy conservation, emissions and pollution control with real-world industrial practice.

Outcome: Improved student understanding of energy conservation, pollution-control technologies and regulatory frameworks in large-scale energy and waste-management operations, and exposure to public participation processes in industrial decision-making.

EVENTS AND INITIATIVES

SRM University–AP's verified SDG 7 events register records 20 unique SDG 7–aligned events for the reporting cycle, spanning technical workshops, invited lectures, faculty development programmes, industry co-teaching sessions and a national-level summit, drawn together here as a single institutional record (multi-SDG events are counted once, per the verified register).

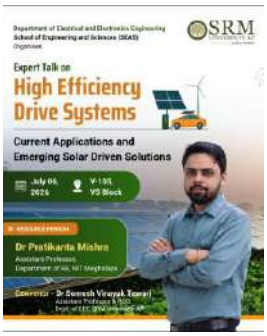
Featured events

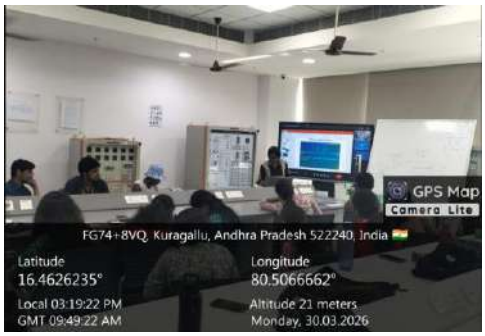
● High-Efficiency Drive Systems: Current Applications & Emerging Solar-Driven Solutions

6 July 2026 | V-105, VS Block | Speaker: Dr Pratikanta Mishra, NIT Meghalaya | 15 participants

A technical session on high-efficiency electric drive systems and their integration with solar photovoltaic technology for industrial and transportation applications, covering power electronics, motor control and energy-efficient drive design.

Outcome: Strengthened participant understanding of solar-driven drive systems and their role in reducing energy consumption and emissions in industrial and transport applications.





● Co-Teaching on Renewable Energy Sources

30 Mar – 1 Apr 2026 | S310 & S502 | Partner: IIT Guwahati | 19 participants

A collaborative co-teaching programme on Wind Energy Conversion Systems and Fuel Cell technologies, combining SRM AP faculty instruction with research perspectives from an IIT Guwahati academic to strengthen system design and performance-evaluation skills.

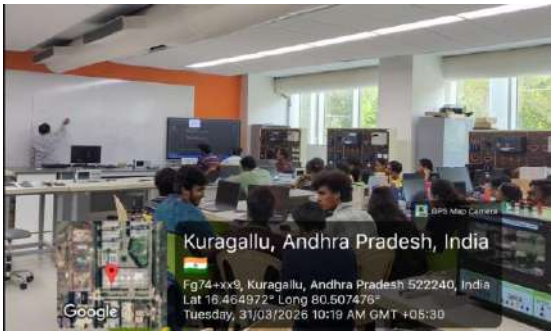
Outcome: Deepened student understanding of wind and fuel-cell system design, modelling and performance evaluation, and improved research orientation through interdisciplinary, cross-institution teaching.

● Workshop on DSP Controllers for Electric Vehicle Applications

30–31 March 2026 | V-105 | Partner: Solidpro Engineering Support Pvt. Ltd. | 75 participants

A hands-on workshop covering DSP controllers, real-time control systems, motor drives and EV system integration, giving participants practical exposure to programming, interfacing and battery management systems used in electric mobility.

Outcome: Participants gained practical skills in DSP-based EV control, motor drives and battery management systems, and exposure to current industry practice in electric mobility.



● Guest Lecture: A Journey Towards the Development of Sustainable Energy Materials

10 April 2026 | ALC-1, Homi J. Bhabha Block | Speaker: Prof. Bhaskar Biswas, University of North Bengal | 59 participants

An invited lecture on bioinspired strategies and hierarchical coordination molecules for sustainable energy materials, covering applications in catalysis, energy conversion and energy storage.

Outcome: Strengthened understanding of advanced material design for energy conversion and storage, and encouraged interdisciplinary collaboration among students and researchers.



● Green Hydrogen Summit 2025

18–19 July 2025 | APJ Abdul Kalam Auditorium, SRM University-AP | National summit with NREDCAP, Government of AP, Greenko, AM Green, BPCL, NTPC, IIT Tirupati and other industry/government partners

A national-level summit convening academic, government and industry stakeholders to advance research, policy and commercialisation of green hydrogen — covering production, storage and applications, and creating a platform for partnerships and investment in clean-hydrogen technologies.

Outcome: The summit led to the AP State Green Hydrogen Valley Declaration; SRM University–AP was recognised as the nodal agency for Green Hydrogen projects in Andhra Pradesh, and a Government of AP Advisory Council was formed to guide clean-energy projects.





● OPAL-RT Workshop: From Simulation to Implementation — Rapid Control Prototyping

14–18 March 2026 | CV 402 & X112 | Partner: OPAL-RT Technologies | 60 participants

A technical workshop introducing Real-Time Hardware-in-the-Loop (HIL) testing for power and energy systems, enabling participants to transition from offline simulation (MATLAB/Simulink, PSIM) to real-time validation relevant to power electronics, smart grids, renewable energy and EV systems.

Outcome: Participants gained hands-on experience in model validation, controller testing and real-time system integration applicable to renewable energy and electric-vehicle system development.





Additional events

• Industry Co-Teaching, ENV 250 — Resource Recovery, Circular Economy & Waste Management Hierarchy (Jan–Feb 2026, 62 participants).

• Co-Teaching, ESE 532 — Renewable energy integration in grid systems and Solar PV design for grid-connected, hybrid and stand-alone systems (Feb–Apr 2026, 9–10 participants per session).

• Co-Teaching, PHY 272 — Solid State Ionic Devices, including supercapacitor principles and applications (Dec 2025, 10 participants).

• Environment and Me: Scholars Talk Series 3.0 — interdisciplinary research-sharing platform for Master's and PhD scholars in environmental science and engineering (Nov 2025, 33 participants).

• FDP on VLSI Devices and Circuits with Current Trends — included coverage of solar-cell technology integration for sustainable electronic systems (Oct 2025, 71 participants).

• Environmental Sustainability Exhibition (ESE–3.0) and industrial/experiential-learning visits to APGENCO, Jindal Urban Waste Management and a BPCL public hearing are featured in the Outreach section above.

Source: Events-sdg_7.xlsx ("Events-org.-Intranet", "Events org.-Not intranet" and "Sheet3" — verified unique SDG 7 event total: 20) and SDG_7_Most_Relevant_Activities_Photo_Space.docx for photographs and activity descriptions.

RESEARCH & PUBLICATIONS

SRM University–AP's SDG 7–aligned research spans green hydrogen, solar photovoltaics and solar-thermal systems, battery and energy-storage technologies, sustainable transport and low-carbon policy. The bibliometric snapshot below is drawn from the University's SciVal activity summary and Scopus-based publication export for 2025–2026.

393 *Scholarly output* SciVal, 2025–2026	**1.23** *Field-Weighted Citation Impact* FWCI	**162** *International collaboration* co-authored publications	**1,529** *Citation count* SciVal, 2025–2026
41.2% *International collaboration* share of co-authored output	**8,121** *Views count* SciVal, 2025–2026	**1.5%** *Academic–corporate collaboration* share of co-authored output	**397** *Publications on record* Scopus export, 6 Sept 2026

Selected research highlights

The following publications, selected from the verified 2025–2026 dataset for their direct relevance to renewable energy, energy storage, sustainable mobility and energy policy, illustrate the range and impact of SDG 7–aligned research at SRM University–AP:

Green hydrogen pathways for a net-zero future: technologies, circular economy integration, life-cycle performance and safety dimensions Review | FWCI 5.78. A comprehensive review of green-hydrogen production technologies, circular-economy integration and safety considerations, directly supporting the University's green-hydrogen research and policy engagement.

Fuelling the low-carbon transportation sector in emerging economies: role of institutional quality, environmental tax, green technology innovation and biofuel Article | FWCI 12.44 · CiteScore 10.3. Examines the policy, institutional and technological levers — including biofuel adoption — that support low-carbon transport transitions in emerging economies.

State-of-Health Prediction of Lithium-Ion Batteries Using Physics-Informed Inverted Attention Transformer Conference Paper | FWCI 10.35. A physics-informed deep-learning approach to predicting lithium-ion battery degradation, relevant to electric-vehicle battery management and lifetime optimisation.

Dual- and triple-absorber solar cell architecture achieves significant efficiency improvements Article | FWCI 5.92 · CiteScore 4.9. Proposes multi-absorber solar-cell architectures that improve photovoltaic conversion efficiency, contributing to next-generation solar technology.

Development of Advanced Heat Transfer Fluids for High-Temperature Solar Thermal Systems Chapter | FWCI 5.76 · CiteScore 0.9. Develops improved heat-transfer fluid formulations for high-temperature concentrated solar thermal power applications.

An equity-based approach for addressing inequality in electric vehicle charging infrastructure: leaving no one behind in transport electrification Article | FWCI 4.87 · CiteScore 9.9. Proposes an equity-focused framework for EV charging-infrastructure planning, supporting inclusive access to sustainable transport electrification.

Refining offshore wind energy potential estimates through the integration of technological evolution and climate change projections Article | FWCI 4.62. Improves offshore wind resource-potential estimation methods by integrating technology evolution and climate-change projections.

Source: SDG_7-publications-_2025-2026_.xlsx (Scopus/SciVal export) and sdg_7_Research.docx (SciVal Activity Summary for SRM University-AP, SDG 7: Affordable and Clean Energy, 2025). Publications selected for direct thematic relevance to SDG 7; the dataset contains additional titles not shown here.

CONCLUSION

Taken together, SRM University–AP's SDG 7 performance for 2025–26 tells a single, connected story: 959 kWp of rooftop solar and a working biogas-to-cooking-fuel loop reduce the campus's reliance on grid and fossil energy; 27,783 LEDs, 1,303 sensor-based systems and monitoring across 17 buildings drive down energy intensity; an 8-vehicle electric fleet supports cleaner on-campus mobility; and 20 verified events, an active outreach programme and 393–397 SDG 7–aligned publications — anchored by the AP State Green Hydrogen Valley Declaration and SRM AP's recognition as the state's nodal agency for green hydrogen — extend this commitment from campus operations into research, policy and public engagement.

Continued investment in renewable capacity, efficiency retrofits, sustainable mobility, and research translation will remain central to SRM University–AP's contribution to SDG 7 in the years ahead.

SDG 8

DECENT WORK AND ECONOMIC GROWTH

INTRODUCTION

Decent work is the foundation on which sustainable institutions, resilient economies and dignified lives are built.

SDG 8 calls on institutions everywhere to promote sustained, inclusive economic growth, full and productive employment, and decent work for all. For a university, this mandate extends well beyond the classroom: it is about the readiness of its graduates for meaningful careers, the entrepreneurial confidence it instils, the fairness and dignity of the working conditions it offers its own faculty and staff, and the role it plays in strengthening the wider economic ecosystem around it.

At SRM University–AP, this commitment is woven into everyday academic and administrative life — through curricula that build employable skills, structured industry exposure, mentorship from alumni and practitioners, platforms for innovation and entrepreneurship, and continuous professional development for employees. Career readiness is not treated as a placement-season activity alone; it is cultivated across the academic calendar through co-teaching with industry experts, hackathons and ideathons, business fests, skilling workshops and alumni-led career conversations.

This section presents SRM University–AP's contribution to SDG 8 during 2025–26 — spanning employability and entrepreneurship initiatives, community-facing livelihood outreach, a wide calendar of SDG 8–aligned events, and research output that advances scholarship on labour, enterprise and economic development.

DECENT WORK, EMPLOYABILITY & ENTREPRENEURSHIP

SRM University–AP approaches decent work and economic growth along two connected tracks: preparing students to enter the world of work with confidence and capability, and upholding fair, supportive working conditions for its own faculty and staff.

Employability & Career Development

Career readiness at SRM University–AP is built through sustained exposure rather than one-off sessions. Programmes such as Campus to Corporate and Career Road Map for Tech Students: From Classroom to Corporate help students translate academic learning into the technical and soft skills recruiters look for, while large-scale sessions like Beyond Your Preparations — Managing Stress during Placements and Career Transition, which drew over 1,600 students, show the University's attention to the wellbeing dimension of career transitions and not just its technical dimension. A steady stream of alumni-led talks — on placement processes at global firms, on generative AI and emerging technology careers, and on pathways into psychology, civil engineering, data careers and beyond — keeps students connected to real, lived career trajectories from within the SRM AP alumni network.

Industry Exposure & Academia–Industry Engagement

Co-teaching arrangements with industry professionals are a distinctive feature of the SRM AP model, bringing practitioners into courses on big data management, advanced database systems, VLSI design, applied cryptography and software engineering to complement classroom instruction with real-world practice. Departmental initiatives such as the Industry Expert Lecture Series for first-year computing courses and the Webinar on Industry 5.0: Connected Factories Powered by AI, Robotics & Digital Twins extend this exposure to emerging technology domains, while the 19th National Frontiers of Engineering Symposium, held in collaboration with the Indian National Academy of Engineering, positioned the University as a convening ground for national conversations on engineering, manufacturing and industry readiness.

Entrepreneurship, Innovation & Incubation

Entrepreneurship is nurtured through platforms that let students pitch, build and be evaluated by industry mentors. The Institution's Innovation Council (IIC) Regional Meet brought together innovators and start-ups shortlisted under the YUKTI Innovation Challenge and the AICTE Productization Fellowship, while the ECE Open House Day showcased over a hundred student projects, including faculty-led start-up initiatives, to industry evaluators. Ideation-first formats such as the ImmersiveX Ideathon and student-led hackathons like My1stHack cultivate a builder's mindset early, and the newly launched BUILD Club gives students a dedicated, mentor-supported track for start-up thinking. At the Paari School of Business, the annual AMEYA management fest — anchored by flagship formats such as the Campus Shark Tank and The Wealth Creator — gives future managers a competitive, real-world arena to test entrepreneurial and strategic thinking.

Skill Development & Professional Growth

SRM University–AP extends skilling beyond the student body to its own workforce. Office Xcelerate and Lab Xcelerate are targeted upskilling programmes for administrative and laboratory staff, covering digital productivity tools, AI-assisted workflows, professional communication and technical troubleshooting — practical investments in the productivity and career growth of non-teaching staff. Financial literacy sessions on practical wealth management, and hands-on vocational training such as the University Bakery workshop, further broaden the range of livelihood-relevant skills available on campus.

Supporting a Fair and Family-Friendly Workplace

As part of its institutional HR framework, SRM University–AP extends maternity and paternity leave benefits to its faculty and staff, reflecting the University's commitment to equitable, family-supportive and dignified working conditions for its workforce. This sits alongside its broader efforts on staff upskilling and professional development as part of a holistic approach to decent work for its own employees.

OUTREACH

Beyond the campus, SRM University–AP extends its SDG 8 commitment through the VAC 207/507 Samaj Seva value-added courses, in which Paari School of Business students undertake structured, credit-linked community engagement projects. These place students in direct, sustained contact with artisans, women's self-help groups, low-income households and rural youth — translating classroom learning in management, finance and digital skills into tangible livelihood and economic-empowerment outcomes for the community partners involved.

● Digital Empowerment of Kondapalli Artisans

Group 5 – Brand Boosters, MBA (PSB) · Partner: Jahnvi Kondapalli Wooden Toys · Feb–Apr 2026

A five-phase project that took a family-run, multi-generational Kondapalli wooden-toy enterprise fully digital. Students surveyed the artisan community, set up Instagram and WhatsApp Business catalogues, delivered hands-on digital customer-handling training, and finally designed and launched a mobile-responsive e-commerce website (kondapallitoys1960.com) with an integrated Razorpay payment gateway. The handover session trained the artisans to independently manage products, orders and content, shifting the business from a middleman-dependent, local-market model to a direct-to-customer digital enterprise — a concrete contribution to artisan livelihoods and economic self-reliance.



● EmpowHER Finance – Women Empowerment through Financial Literacy & Savings Awareness

Group 10, MBA (PSB) · Partner: MAARPU Trust · 29 SHG leaders (SERP & MEPMA) · Mar 2026

A three-phase financial-literacy initiative with women's Self-Help Group (SHG) leaders across Vijayawada and Gollapudi, conducted in partnership with MAARPU Trust, an NGO focused on financial inclusion for marginalised communities. Following classroom preparation, students ran individual interviews with MEPMA SHG members and a field session with 27 SERP SHG leaders on budgeting, savings habits, banking access and government schemes. The project's own data showed a clear link between record-keeping discipline and awareness of government financial schemes, reinforcing the case for structured financial-literacy support among women entrepreneurs and SHG members.





● Impact Makers – Vocational Training for Women

MBA (PSB) · Partner: Inner Wheel Club, Guntur (Ms Garikipati Jayasree) · 20 women · Tuffan Nagar, Guntur · 30 March 2026

A hands-on vocational training programme for women from economically weaker sections, developed after a needs-assessment survey identified skill and employment gaps in the community. Twenty women were trained in preparing detergent powder, phenyl, soap oil and pain balm — low-cost, high-demand products — alongside sessions on pricing, marketing and customer handling to support small-scale, home-based self-employment. The activity directly targeted participants' financial independence and confidence to pursue income-generating work.



● Career Roadmap: Navigating Future Aspirations for Rural Youth

MBA (PSB) · Partner: ZPHS International School, Nidamarru · 83 students (Grades 9–10)

A bilingual (English–Telugu) career-guidance session designed to close the career-awareness gap faced by rural government-school students, who often have limited access to diverse professional role models. Using a specially designed bilingual questionnaire and an interactive presentation on career streams — from vocational training to civil services and emerging digital roles — the team helped over 83 students identify their areas of interest and the subjects required for their chosen paths, leaving behind a reusable career-counselling tool for the school.



● Enhancing Urban Poor through Financial Inclusion

Student research team (7–8 members) · 100 respondents, low-income urban neighbourhoods, Vijayawada & Amaravati

A primary-research study examining why low-income urban families, despite living near banks, continue to rely on cash and informal saving methods. Through surveys and one-on-one interviews with 100 respondents, the team found that 44% had no savings at all, only 49% held a bank account, and education level was strongly linked to financial activity. The study concluded that financial inclusion requires combining banking access with awareness, literacy and skill-building, and recommended coordinated action by government, NGOs and communities to build trust in formal saving schemes.



● Career Guidance Programme by the Directorate of CR&CS

For NCC Cadets · Directorate of Student Affairs · 11 February 2026 · 56 cadets

A dedicated career-guidance session for NCC cadets on higher education pathways, competitive examinations and employment prospects, designed to build clarity, confidence and goal-setting ability among a group of students who might otherwise have limited structured access to career counselling. The session strengthened participants' decision-making around further study and employment, extending the University's employability mandate to a wider, service-oriented student community.



EVENTS AND INITIATIVES

54

SDG 8–aligned events organised across SRM University–AP in 2025–26

During 2025–26, SRM University–AP organised 54 events mapped to SDG 8 across its schools, departments and directorates — spanning innovation and start-up platforms, career-readiness and placement-support sessions, industry–academia engagement, entrepreneurship fests, and professional skilling for staff. The strongest and most directly relevant of these are highlighted below.

Innovation, Start-ups & Ideation

● IIC Regional Meet

1,098 participants

A national platform hosted at SRM University–AP for innovators and start-ups shortlisted under the YUKTI Innovation Challenge (YIC) 2025 and the AICTE Productization Fellowship (APF) 2025, featuring technology showcases, start-up exhibitions and IIC poster presentations.





● ECE Open House Day 2.0 – 2026

149 participants

Showcased over 100 student projects, including faculty-led start-up initiatives, evaluated by industry experts — fostering industry–academia interaction and encouraging student innovation and entrepreneurship.

● ImmersiveX Ideathon

358 participants

A one-day ideathon introducing AR/VR technologies, giving students a platform to pitch immersive-technology solutions to real-world problems.

● My1stHack 2025

309 participants

SRM AP's first hackathon exclusively for freshers, organised by the GeeksforGeeks Campus Body, drawing 250+ registrations and recognised by University leadership as a landmark student-led innovation initiative.

● BUILD Club Kick-Start Workshop

109 participants

Launched a new student entrepreneurship track under the Dean–Research office, equipping early-stage student founders with foundational start-up skills.

● QC² – Quantum Computing Conclave 2026

340 participants

Built awareness of quantum computing and its emerging industry applications among students and faculty, pointing to future-ready career and research pathways.

Employability, Career Readiness & Placements

● Beyond Your Preparations: Managing Stress during Placements and Career Transition

1,602 participants

A large-scale workshop by University counsellors supporting students' psychological readiness for the placement process and career transitions, alongside technical preparation.

● Campus to Corporate

217 participants

Organised by the Coding Club to close the gap between student skillsets and recruiter expectations in AI and backend development, sharpening interview readiness and professional-profile building.



● Your Guide to Acing the PayPal Placement Process

280 participants

An alumna-led session (Class of 2025) offering first-hand guidance on cracking a competitive corporate placement process.





● Career Road Map for Tech Students: From Classroom to Corporate

40 participants

Guided students on the transition from academic learning to industry expectations, covering career planning and essential professional skills.



● Becoming Industry Ready 101

64 participants

An alumni-led session unpacking the practical skills and preparation that translate academic learning into industry readiness.





● Skills That Got Me Into the Tech Industry

68 participants

A further alumni interaction sharing the practical skills and preparation behind a successful entry into the technology industry.





● Career Pathways for Civil Engineering Graduates

30 participants

An alumni interaction session helping civil engineering students evaluate higher-study and employment pathways, along with the project-management tools the industry expects.





● From Student to Professional: Exploring Education and Career Prospects in the UK

43 participants

An alumnus-led session on higher education, international career prospects and job-search strategies in the United Kingdom.





Industry–Academia Engagement

● Industry Expert Lecture Series (CSE 101 / FIC 104)

2,000 participants

Brought industry practitioners, including a data engineer from Tata Consultancy Services, into a foundational computing course to connect classroom concepts with real-world software practice.

● Webinar on Industry 5.0: Connected Factories Powered by AI, Robotics & Digital Twins

56 participants

Introduced students, researchers and faculty to human-centric, AI-and-robotics-driven manufacturing and the future workforce skills it demands.

● Global Opportunities for Young Engineers: Learn, Work and Grow Abroad

58 participants

An alumnus-led talk giving engineering students a real-world perspective on international career pathways, professional mobility and global workplace standards.





● 19th National Frontiers of Engineering Symposium (NatFoE-25) & Engineer's Day Celebrations

Held with the Indian National Academy of Engineering

A national platform for engineers, researchers and industry professionals to exchange ideas on semiconductors, quantum technologies and sustainable manufacturing, strengthening academia–industry collaboration and student mentorship.







● Co-teaching Series

Big Data Management (313), ADBMS (182), Advanced Digital VLSI Design (37), Applied Cryptography (36)

A sustained departmental practice of embedding industry experts directly into technical coursework, giving students continuous exposure to current tools and practices alongside academic instruction.

Entrepreneurship & Business Engagement

● AMEYA 2026

422 participants, 400+ registrations

Paari School of Business's flagship management fest, featuring competitive formats such as the Campus Shark Tank, The Wealth Creator and Marketing Maestro — testing students' entrepreneurial thinking, financial acumen and strategic decision-making.







● Trending Issues in HR

150 participants

A guest talk exploring contemporary human-resource practice, connecting management students to evolving workplace and employment trends.

● Cinevie 3.0

1,400+ attendees

A national-level short film and documentary competition organised end-to-end by the Cinemates Club, involving students in sponsorship acquisition, budgeting and revenue management — practical experience in event entrepreneurship and financial accountability.





Professional & Skill Development

● Office Xcelerate: Digital Productivity and AI Skills for Modern Office Executives

18 participants

Upskilled administrative staff in Excel, Word, PowerPoint, professional email communication and AI-assisted workflows.





● Lab Xcelerate: Enhancing Technical and Operational Skills for Laboratories

51 participants

Built laboratory staff's capabilities in communication, Python programming, network troubleshooting and AI tools, strengthening operational efficiency.







● Wealth Management (Practical Approach)

33 and 29 participants across two sessions

Practical financial-literacy sessions equipping students with real-world money-management skills.

● Bakery Workshop

26 participants

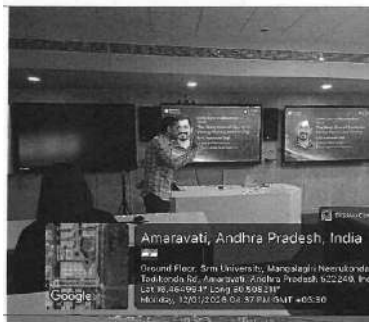
Hands-on culinary and vocational skill-building at the University Bakery — a tangible, livelihood-oriented skill outside the standard curriculum.

Leadership & Personal Development

● National Youth Day

36 participants

An expert talk — "The Many Lives of Swadeshi: History, Memory, and Meaning" — held to mark National Youth Day, encouraging discipline, leadership and self-confidence among students as part of their broader readiness for the workforce.



RESEARCH & PUBLICATIONS

SRM University–AP's research footprint on SDG 8 themes — spanning labour markets, entrepreneurship, financial inclusion, corporate governance and industrial innovation — has grown substantially, as captured in the University's SciVal-tracked activity for 2025–2026.

90 *Scholarly outputs mapped to SDG 8 (2025–26)*	**1.35** *Field-Weighted Citation Impact*	**413** *Citations received*
3,342 *Views count*	**31** *International collaborations*	**34.4%** *Publications with international co-authorship*

Source: SciVal, SRM University–AP SDG 8 activity report, 2025–2026 (data as of 6 September 2026).

Publications

The Role of Government Financial Assistance in Enhancing the Performance and Financial Sustainability of SMEs in Ghana: Implications for Economic Development — this widely cited study (Field-Weighted Citation Impact of 15.19) examines how government-backed financial assistance strengthens the performance and financial sustainability of small and medium enterprises, directly informing SME-led economic development policy.

Balancing Growth and Green Goals: Financial Access, Entrepreneurship, and Sustainable Development in the BRICS Economies links financial access and entrepreneurial activity to sustainable growth outcomes across major emerging economies.

Governance, Entrepreneurship, and the Path to Sustainable Development in BRICS Economies examines how governance quality shapes entrepreneurial ecosystems and development outcomes in BRICS nations.

Linkages between Financial Development and the Growth Dynamics of the Manufacturing Industry: Empirical Evidence from India traces how financial-sector development supports manufacturing-sector growth, with direct relevance to industrial job creation in India.

Examining the Nexus between Diverse Forms of Capital and Labour Force Employment in Driving Economic Growth: Evidence from India studies how different forms of capital combine to drive labour-force employment and national economic growth.

Financial Inclusion Access and Female Labour Participation in Sub-Saharan Africa: The Moderating Role of Institutional Quality investigates how institutional quality shapes women's access to labour markets through financial inclusion.

Unpacking New Forms of Labour Market Segmentation: Gender and Informality in Urban India analyses gender and informality as structuring forces in urban labour markets — core decent-work concerns.

The Illusion of Inclusion: Employment-linked Incentive and the Politics of Job Creation critically examines employment-linked government incentive schemes and the politics behind formal job creation.

The Impact of Women on Corporate Boards on Intellectual Capital Efficiency and Business Performance in Sub-Saharan Africa links boardroom gender diversity to intellectual capital efficiency and firm performance.

Corporate Social Responsibility (CSR) and Corporate Financial Performance (CFP): A Panel Data Analysis of BSE 500 Companies in India and The Impact of Corporate Governance on the Contribution of Listed Firms to Sustainable Development Goals (SDGs) Disclosures in Ghana together connect responsible governance practice to sustained financial and disclosure performance across listed firms.

Optimizing Digital Workflow Design and Implementation with Recommender Systems for Personalized Efficiency applies digital tools and recommender systems to improve workplace productivity and process efficiency.

A Prescriptive Route Optimization Model for Industrial Firms Advancing Twin Transition proposes route-optimisation strategies to help manufacturing firms navigate the digital-green "twin transition," with direct implications for industrial productivity.

CONCLUSION

Taken together, SRM University–AP's SDG 8 contribution forms a connected pathway: skill-building in classrooms and workshops feeds into stronger employability; employability, paired with entrepreneurship platforms such as AMEYA, the BUILD Club and the IIC ecosystem, produces confident innovators; and industry-academia engagement converts that innovation into real economic opportunity — for students entering the workforce, for staff growing within it, and for the community partners the University works alongside.

With 54 SDG 8–aligned events, a growing and internationally engaged research base on labour, enterprise and governance, and institutional practices that support decent working conditions for its own employees, SRM University–AP continues to build an ecosystem where economic growth and human dignity in work reinforce one another. Going forward, deepening structured entrepreneurship support, expanding industry co-teaching, and strengthening the evidence base linking these initiatives to placement and start-up outcomes will further sharpen the University's contribution to SDG 8.

SDG 9

INDUSTRY, INNOVATION AND INFRASTRUCTURE

INTRODUCTION

SDG 9 calls on nations and institutions to build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation — recognising that technology and industry are the engines of long-term, equitable development. At SRM University-AP, this goal sits at the heart of the institution's academic and research identity.

Over 2025–26, the University advanced SDG 9 through frontier research spanning quantum technology, artificial intelligence, industrial IoT, sustainable manufacturing and advanced materials; through state-of-the-art laboratories and testbeds such as the Amaravati Quantum Reference Facility; through a vibrant innovation and incubation ecosystem that connects students to industry and startups; and through 154 SDG 9-aligned events, workshops and outreach activities that carried technology, entrepreneurship and scientific awareness from the campus into the wider community. Together, these efforts reflect SRM-AP's growing role as a hub for deep-technology research and industry-relevant innovation in South India.

THE QUANTUM RESEARCH CENTRE

Established in 2026, the Quantum Research Centre (QRC) reflects SRM University-AP's mission to lead in quantum nanotechnology and build a globally recognised research ecosystem in South India. Faculty from interdisciplinary departments conduct cutting-edge research spanning quantum electronics, quantum materials and device fabrication, quantum machine learning and key distribution, quantum many-body and gravity simulations, and quantum biology — serving as a shared platform where startups, researchers and industry partners from India and abroad can test, benchmark and validate quantum computing components before large-scale deployment.

SRM-AP is the first academic institution in India to host a Quantum Reference Facility (QRF) on campus, established through an MoU with the Government of Andhra Pradesh under the Amaravati Quantum Valley Project. The resulting Amaravati Quantum Reference Facilities (AQRF) — comprising the Amaravati 1S and 1Q systems — are India's first indigenous, open-access quantum computing platforms, designed and assembled through a domestic supply chain spanning seven institutions across six cities, and functioning as a fully instrumented hardware testbed for validation and certification of quantum components under real operating conditions.





INNOVATION, RESEARCH & INFRASTRUCTURE

1st in India	**2**	**154**	**100+**
Academic Quantum Reference Facility	*Indigenous Quantum Systems (1S & 1Q)*	*SDG 9-Aligned Events (2025–26)*	*Student & Startup Projects Showcased*

Innovation & Incubation Ecosystem

SRM-AP's Institution's Innovation Council (IIC) anchors a growing startup and incubation ecosystem. The IIC Regional Meet brought together more than 1,000 participants — including over 150 innovators and startups shortlisted under the YUKTI Innovation Challenge (YIC) 2025 and the AICTE Productization Fellowship (APF) 2025 — for technology showcases, innovation exhibitions and idea presentations. The ECE Open House Day 2.0 complemented this by showcasing over 100 innovative student projects and faculty-led startup initiatives to industry evaluators, reinforcing a culture of experiential, entrepreneurial engineering education.





Entrepreneurship & Industry Collaboration

The Paari School of Business's AMEYA management fest drew over 400 student participants into applied business challenges spanning strategy, finance and marketing, nurturing an entrepreneurial mindset. Across engineering departments, industry professionals co-taught specialised sessions — from Database Management Systems (1,515 students) to CI/CD and DevOps practice — directly connecting classroom learning with current industry technology practices. Workshops on microservices architecture, hardware security and BIM/GIS-integrated digital construction further deepened this academia–industry interface.





Frontier Technology & Research Capacity

Dedicated programmes built technical depth in emerging fields: advanced nanomaterials and AI-powered biomedical sensors, hands-on virtual reality and AI development, quantum computing and hardware, and data analytics and cybersecurity (DACS 2025). Combined with the University's quantum computing infrastructure, these initiatives position SRM-AP as a growing centre for research capacity-building in frontier and industrially relevant technologies.





OUTREACH

SRM-AP's Samaj Seva and community-engagement programmes extend the University's innovation capacity beyond the campus, using technology and entrepreneurship to strengthen livelihoods, market access and digital literacy in surrounding communities.

● Digital Empowerment of Kondapalli Artisans

MBA students (Group 5, "Brand Boosters") partnered with Jahnvi Kondapalli Wooden Toys — a family-run enterprise producing the UNESCO-recognised Kondapalli wooden toy craft — to design and launch a full e-commerce website with Razorpay payment integration, a WhatsApp Business catalogue and an optimised Instagram presence. Following a hands-on training and handover session, the artisans now independently manage online orders and payments, reducing their dependence on middlemen and opening a direct-to-customer national sales channel — a practical demonstration of SDG 9's promise of inclusive, technology-enabled industry.







● Agri-Link: Connecting Farmers and Markets

A student research team engaged 100 farmers and visited the Attaluru Palem Organic Farmers Producer Company to study how digital platforms could reduce middlemen dependence in agricultural supply chains. Field findings — high cultivation costs, payment delays and low digital literacy among farmers — informed the proposed Agri-Link platform, a direct farmer-to-market digital connection designed with local-language support and offline access to ensure real adoption. The initiative reflects SRM-AP students' application of technology and infrastructure thinking to real-world rural development challenges.





● Research for Digital Financial Infrastructure

A separate student research project, "The UPI Effect," examined how India's Unified Payments Interface — a public-good digital infrastructure processing over 20 billion transactions a month — accelerates financial inclusion (SDG 8) and resilient digital infrastructure (SDG 9). Drawing on a 126-respondent survey and national transaction data, the study found overwhelming user agreement that UPI has supported MSME growth and formalised India's cash-driven economy, while flagging network reliability and fraud security as the priority areas for future policy.

EVENTS AND INITIATIVES

154	97	57
Total SDG 9-Aligned Events, 2025–26	*Department & School-Organised Events*	*University-Wide & Alumni-Led Events*

Across the academic year, SRM-AP organised 154 SDG 9-aligned events spanning technical workshops, conferences, hackathons, industry talks and innovation showcases. The activities below — spanning quantum computing, AI, cybersecurity, industrial IoT and digital infrastructure — illustrate the breadth of this technology and innovation calendar.

● ECE Open House Day 2.0 – 2026

Department of ECE

The ECE Open House showcased more than 100 innovative student projects and faculty-led startup initiatives, giving participants a platform to demonstrate technology-based solutions to industry experts and academicians. The event emphasized practical implementation, innovation and real-world impact. Students gained exposure to emerging technologies while receiving feedback from professionals. The activity also strengthened industry–academia interaction and encouraged entrepreneurship and experiential learning.



● High-Efficiency Drive Systems: Current Applications and Emerging Solar-Driven Solutions

School of Engineering & Sciences

The lecture explored high-efficiency electric drive systems and their applications in industry and transportation. It covered advances in power electronics, motor-control techniques, solar photovoltaic integration and intelligent energy solutions. Participants were introduced to approaches for improving efficiency, reducing energy consumption and developing sustainable engineering systems. The session also highlighted emerging research and industry opportunities in renewable-energy-driven technologies.



● Two-Day Workshop on Advanced Nanomaterials and AI-Powered Microscale Sensors for Biomedical Applications

Department of ECE

The workshop brought together scientists and young researchers to explore advanced nanomaterials and AI-powered microscale sensors for biomedical applications. Participants were exposed to emerging research, technological applications and interdisciplinary approaches in advanced materials and sensing. Expert interactions provided opportunities for knowledge exchange and collaboration. The programme strengthened awareness of frontier technologies with potential applications in healthcare and other high-impact sectors.



● Hands-on VR and AI Development Workshop

IIC Student Club

The workshop provided participants with hands-on exposure to virtual reality, artificial intelligence and large-language-model concepts. Students learned how to build a small VR project and explored practical use cases and future opportunities in VR and AI. The activity moved beyond theoretical learning by encouraging participants to create and experiment with emerging technologies. It also introduced potential career and research pathways in rapidly developing technology fields.



● Young Innovators System Lab (YISL)

Inter-institutional AR/VR workshop

The Young Innovators System Lab workshop used a practical, project-based approach to introduce students to AR/VR technologies. Participants worked in teams to develop innovative VR projects and engage with cutting-edge tools. The programme brought together students from different institutions and encouraged creative problem-solving and collaborative learning. Its learning-by-doing approach helped participants translate technology concepts into prototype-oriented innovation.



● International Conference on Data Analytics and Cyber Security (DACS 2025)

International conference

DACS 2025 created an international platform for researchers, academicians, industry professionals and students to exchange ideas in data analytics, computing, AI, machine learning, cloud computing and cybersecurity. The conference supported research dissemination, technical discussions and academic–industry interaction. Participants presented research, received expert exposure and developed professional networks. The event also encouraged interdisciplinary collaboration around emerging digital technologies.



● Modernising Applications: Microservices, Agility and Smarter Deployments

Department of CSE

The workshop introduced students to modern software-development approaches based on microservices, agility and smarter deployment practices. Participants gained industrial exposure to contemporary application architectures and digital

development workflows. The activity helped connect academic learning with current technology practices used in software engineering. Such exposure supports students in understanding how scalable and modern digital systems are designed and deployed.



● Research Opportunities in Computer Science (ROCS)

Organised by SRM-AP ACM Student Chapter

The ROCS workshop exposed participants to recent developments and research opportunities in computer science and technology. It created a platform for students to learn about emerging research areas and future directions in the field. The event encouraged participants to engage with new technologies and consider further innovation-oriented work. Such exposure can strengthen research interest and contribute to the development of future technology capabilities.



● Digital Infrastructure Workflows: Integrating BIM and GIS for Civil Engineering Construction

Department of Civil Engineering

The seminar introduced students to modern digital construction workflows and the integration of Building Information Modelling and Geographic Information Systems. Participants learned how digital tools can support planning, construction, infrastructure management and data-driven decision-making. The session highlighted industry-standard platforms and emerging digital construction practices. It also exposed students to career opportunities in BIM, GIS and digital infrastructure management.



● Singularity Student Advanced Lab Launch & MISSION: Schrödinger's Cat Hackathon

1,200 participants | 27 Mar 2026 | Alumni Relations

The event combined the launch of the Singularity Student Advanced Lab with the MISSION: Schrödinger's Cat Hackathon. Alumni participated as judges, providing an innovation-focused platform for students to present and evaluate technology-oriented ideas. The large participation indicates broad student engagement. The activity demonstrates a practical environment for experimentation, problem solving and technological innovation.



● 3rd Research Scholars' Summit

250 participants | 10 Oct 2025 | Dean–Research

The 3rd Research Scholars' Summit brought together research scholars and senior academic experts for a dedicated technical and research-focused programme. The summit provided a platform for sharing research work, exchanging ideas and building scholarly interaction. Such activities strengthen the institutional research environment. It supports a culture of knowledge generation, collaboration and innovation.



● Intellectual Property Creation and Technology Transfer

97 participants | 05 Feb 2026 | Dean–Research

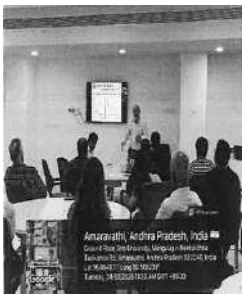
This workshop focused on intellectual property creation and technology transfer. The activity addressed the pathway from research outputs and inventions toward protection and potential transfer of technology. It therefore connects academic innovation with practical application and commercialisation. The programme is directly relevant to strengthening an innovation and technology-transfer ecosystem.



● Is AI Really Useful for Materials Science?

132 participants | 24 Feb 2026 | Dean–Research

The distinguished lecture examined the usefulness of artificial intelligence in materials science. It brought together AI and advanced materials as areas of contemporary technological development. The session helped participants engage with the role of computational approaches in materials-related research. This supports awareness and adoption of emerging technologies for scientific and engineering innovation.



● Quantum Computers and Hardware

180 participants | 15 Apr 2026 | Dean–Research

The lecture focused on quantum computers and their hardware, introducing participants to an emerging area of advanced computing technology. The topic addresses both the technological foundations and future potential of quantum systems. Exposure to such frontier technologies can strengthen technical awareness and research capacity. It contributes to a forward-looking innovation ecosystem.



● Designing the Future: 100 Use Cases on Advanced Quantum Machines

320 participants | 05 May 2026 | SRM-AP Quantum

Designing the Future explored 100 use cases on advanced quantum machine applications. The workshop created a technology-focused platform for discussing practical and future-oriented applications of quantum technologies. Its emphasis on use cases connects advanced research with potential real-world solutions. The activity reflects institutional engagement with frontier innovation and emerging technological systems.



● Innovating the Classroom with Blockchain Technology

18 participants | 24 Oct 2025 | Teaching Learning Centre

This session explored the use of blockchain technology in the classroom. It demonstrates the introduction of an emerging digital technology into teaching and learning practices. The activity provided an opportunity to understand how technology can be incorporated into educational processes. It supports digital innovation and institutional experimentation with new technology-enabled approaches.



● Industry Co-Teaching: Database Management Systems

1,515 participants | 04 Apr 2026 | Dept. of CSE

The co-teaching series brought an industry expert into the Database Management Systems course. This provided students with exposure to industry-oriented perspectives alongside academic instruction. Such engagement helps connect curriculum delivery with contemporary professional and technological practices. It strengthens the interface between higher education and the technology industry.



● Software Engineering & Project Management: CI/CD and DevOps Practices

236 participants | 25 Apr 2026 | Dept. of CSE

The industry expert talk addressed software engineering and project management with emphasis on continuous integration and continuous delivery/deployment and DevOps practices. These topics represent modern approaches to developing, integrating and deploying software systems. The session connected participants with current technology practices. It therefore supports digital infrastructure capability and industry-relevant technical knowledge.



● Next-Gen Communication: A Peek into Future Technologies

47 participants | 09 Oct 2025 | Dept. of ECE

Next Gen Communication examined future technologies in the communications domain. The technical event provided participants with exposure to emerging communication systems and technological developments. Such programmes help build awareness of the infrastructure required for increasingly connected digital environments. The activity is relevant to technological innovation and next-generation communication infrastructure.



Other Notable SDG 9 Initiatives

Event	Date	Participants	Focus
Code for Connection: App & Web Dev Contest	14 Feb 2026	789	12-hour hackathon for human-centred digital solutions
AMEYA 2026 – Management Fest	11–12 Feb 2026	422+	Entrepreneurship, strategy & innovation challenges for management students
QC² Quantum Computing Conclave 2026	24–26 Mar 2026	340	Building quantum-computing awareness among students & faculty
Hardware Under Attack: Trust & Security in the Silicon Era	25 Apr 2026	23	Webinar on hardware security and resilient computing architectures
19th National Frontiers of Engineering (NatFoE-25) & Engineer's Day	15–16 Sep 2025	National platform	Semiconductors, quantum tech and sustainable manufacturing symposium

RESEARCH & PUBLICATIONS

215	1.67	1,019	78
Scholarly Publications (2025–26)	*Field-Weighted Citation Impact*	*Citations Received*	*International Collaborations*

SRM-AP's SDG 9-mapped research output spans sustainable manufacturing, industrial IoT, additive manufacturing, circular economy and precision agriculture — with more than a third of publications co-authored internationally. The strongest and most industry-relevant contributions from 2025–26 include:

Publications

Integration of Edge-Enabled IoT in Vehicular Networks in Smart Cities — Highest-impact SRM-AP study of the cycle — applies edge computing and IoT to build resilient, data-driven urban transport infrastructure.

CSPGhost-YOLO: A Lightweight, Real-Time PCB Defect Detection System — An AI vision model that speeds up quality inspection on electronics production lines — direct application to smart manufacturing.

Interoperability Between OPC-UA and MQTT in Hybrid Industrial IoT (IIoT) Environments — Addresses a core industrial-automation bottleneck — getting factory-floor devices and cloud platforms to talk to each other.

Advancements in Smart Farming Using IoT, AI, Machine Learning and Deep Learning — Surveys how connected sensors and AI are modernising agricultural infrastructure and productivity.

Green Hydrogen Pathways for a Net-Zero Future: Technologies, Circular Economy Integration and Life-Cycle Performance — Maps the technology and infrastructure pathway for clean-energy industry transformation.

Decentralized Blockchain-Integrated IoT Framework for Enhancing Cybersecurity and End-to-End Trust — Strengthens the security backbone of connected industrial and infrastructure systems.

Intelligent Industrial IoT: A Data-Driven Approach for Smart Manufacturing and Predictive Maintenance — Demonstrates how real-time data can cut downtime and modernise manufacturing operations.

Influence of Welding Processes on Duplex Stainless Steel Parts Fabricated by Wire Arc Additive Manufacturing — Advances metal 3D-printing science for next-generation industrial fabrication.

Microstructural Analysis of Wire Arc Additive Manufactured Aluminium Alloy for Lightweight Structures — Supports lighter, more efficient structural components for industry and infrastructure.

DYNAMIC-TRUST: Blockchain-Enhanced Trust for Secure Vehicle Transitions in Intelligent Transport Systems — Builds trusted digital infrastructure for next-generation, connected transport networks.

Digital Twins and Cyber-Physical Systems: A New Frontier in Computer Modelling — Reviews how virtual replicas of physical systems are reshaping industrial design and operations.

Top research themes: Sustainable Manufacturing, Industrial IoT, 3D Printing, Precision Agriculture, Circular Economy, Blockchain, Bioeconomy, Sustainable Development Goals, Waste Management, Data Integrity.

CONCLUSION

From a first-of-its-kind quantum computing testbed to 215 research publications, from 154 innovation-focused events to community projects that carried e-commerce and digital platforms to artisans and farmers, SRM University-AP's SDG 9 contribution in 2025–26 connects research, technology and infrastructure directly to industry collaboration, entrepreneurship and social impact. As the Amaravati Quantum Valley Project matures and the University's innovation ecosystem continues to scale, SRM-AP is positioned to deepen its role as a driver of inclusive, sustainable industrialisation — for the region, and for India's technology future.

SDG 10

REDUCED INEQUALITIES

INTRODUCTION

Inclusion, equity and empowerment at SRM University–AP

Sustainable Development Goal 10 calls for reducing inequality within and among countries — ensuring that opportunity, dignity and access to essential services are not determined by a person's income, gender, age, disability, race, ethnicity, origin, religion, or economic or other status. It asks institutions to look inward at who is included in their own community, and outward at how they extend opportunity to the communities around them.

SRM University–AP approaches SDG 10 as a commitment that runs through its classrooms, campus policies, student life and outreach. Inclusive curricula and value-added courses on social engagement sit alongside institutional mechanisms for a safe and respectful campus — gender-sensitisation programmes, anti-ragging safeguards, and structured orientation that brings every incoming student onto a common, supportive platform. Academic programming gives space to the study of inequality itself, from caste and mobility to gender and marginalisation, while student-led outreach carries that commitment beyond the campus to under-resourced schools and children's homes in the surrounding community.

The sections that follow bring together the University's verified initiatives, events, outreach activities and research from AY 2025–26 that speak most directly to inclusion, equal opportunity, accessibility, diversity and empowerment — the building blocks of a more equal SRM University–AP.

INCLUSION, EQUALITY & CAMPUS INITIATIVES

Institutional commitments that shape an equitable campus

Beyond individual events, SRM University–AP maintains a set of standing institutional mechanisms and curricular initiatives that embed equality, safety and inclusion into everyday campus life. Four of these reached particularly wide sections of the community in AY 2025–26:

3,536
reached by the POSH campus-safety sensitisation programme

3,556
students & staff in the Gender Sensitivity awareness session

3,860
incoming students onboarded through Orientation 2025

170
students engaged in the Samaj Seva community-service course

A Safe and Respectful Campus

The Prevention of Sexual Harassment (POSH) sensitisation programme, facilitated by Usha Pantula for the Directorate of Student Affairs, reached 3,536 students and staff with awareness of appropriate conduct, rights and responsibilities on campus. It was paired with an interactive session, "Respecting Differences, Embracing Equality," conducted by university counsellors for 3,556 participants on gender sensitivity, inclusivity and respect for diversity. A dedicated Anti-Ragging Week further reinforced the University's commitment to a harassment-free environment for every student.

Equal Onboarding for Every Student

Orientation 2025, a 12-day programme, brought 3,860 incoming students onto one common platform regardless of background, easing their integration into university life and giving every fresher equal footing from day one.

Community Service Built into the Curriculum

The Paari School of Business embeds inclusion directly into its academic programme through VAC-507 Samaj Seva, a value-added course for the MBA 2025 batch. Over 120 days, 170 students worked directly with government schools, NGOs and local communities across Amaravathi, Guntur and Vijayawada, developing empathy, civic responsibility and an understanding of the needs of underprivileged sections of society.

Scholarship on Inequality Itself

SRM University–AP also created space for critical engagement with inequality as a field of study. The 50th All India Sociological Conference (AISC) 2025, hosted on campus with the Indian Sociological Society, drew 2,951 participants to examine how caste, class, gender, tribe, religion and region shape unequal access to mobility and resources. A guest lecture on "AI and Transfeminism" examined the inclusion of women and LGBTQ people in the design of AI systems through a critical, decolonial lens, while a dedicated workshop equipped scholars with storytelling-based research methods designed to support traditionally marginalised students in virtual learning environments.

OUTREACH

Carrying inclusion beyond the campus gate

SRM University–AP's outreach under SDG 10 is led by students of the Paari School of Business, who, as part of their Samaj Seva engagement, worked directly with two of the community's most under-resourced groups: children at Sharon Charitable Trust Children's Home, Navuluru — a home providing shelter, care and education to orphaned and underprivileged children — and students of rural government primary schools at Neerukonda, in partnership with the Rotaract Club of Vijayawada Elite League. Six completion-reported activities were carried out across these locations, each formally mapped to Goal 10: Reduced Inequality.

● Health, Hygiene and Empowerment at Sharon Children's Home

For 36 children at Sharon Children's Home, students ran a Menstrual Hygiene Awareness Session (5 April 2026) that created a safe space to discuss menstrual health, dispel common myths, and build confidence among adolescent girls, alongside a companion Hygiene Awareness Session through Role-Play (8 March 2026) that used short performances to make handwashing and daily cleanliness routines memorable for younger children. A Creative Painting Activity and a colour-coded Good Habits vs Bad Habits Awareness Game rounded out the engagement, using play-based learning to reinforce discipline, hygiene and positive behaviour among the children.

● Health Access and Environmental Awareness in Rural Schools

At Government Primary School, Neerukonda, students partnered with the Rotaract Club of Vijayawada Elite League and Sresta Dental Clinic to run a Dental Health Camp & Awareness Programme, giving more than 45 children a basic oral health check-up and hands-on lessons in preventive care. A parallel Green Future Initiative — a plantation drive and environmental awareness session held across Neerukonda and Nalanda Vidyaniketan schools — saw students and children plant saplings together while learning about conservation and sustainability, with both partner schools formally recognising the initiative's impact on student engagement and campus greenery.










Across both locations, the outreach purpose was consistent — extending health, hygiene, educational and environmental awareness to children who otherwise have limited access to such resources — and the outcomes, as recorded in each activity's completion report, point to real gains: improved hygiene knowledge among children, greener and better-maintained school surroundings, and stronger empathy, communication and leadership skills among the SRM University–AP student volunteers who led the sessions.

EVENTS AND INITIATIVES

35

SDG 10–mapped events across AY 2025–26

SRM University–AP's verified events register records 35 unique activities mapped to SDG 10 in AY 2025–26, spanning academic conferences, invited lectures, workshops, awareness campaigns and cultural celebrations run by academic departments, the Directorate of Student Affairs, and student bodies such as NCC and NSS. The strongest of these — drawn from across the University's departments and offices — are presented together below.

- **Breaking Barriers: Reimagining Centre–Margin Dynamics**

This interdisciplinary conference (17–18 December 2025) brought together scholars to examine intersectionality and multilayered marginalisation — from power and knowledge to digital hierarchies, migration and statelessness, marginalised languages, and the politics of visibility. It gave voice to communities located at social, cultural and political margins and created a platform for interdisciplinary discussion and knowledge exchange on issues of exclusion.



● Chaityabhumi: Film Screening and Discussion

A screening and director's discussion (24 September 2025, 96 participants) created an academic space to critically examine caste, social justice, memory and political assertion in contemporary India. Direct interaction with the filmmaker helped students connect classroom learning to lived experience, strengthening inclusive academic discourse around Ambedkarite histories and marginalised narratives.



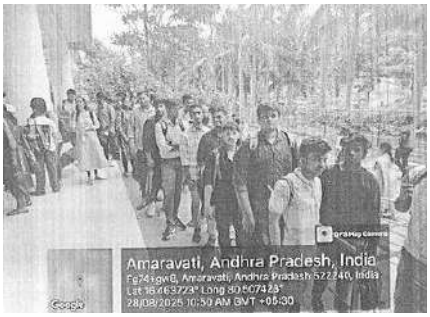
● Workshop on Storytelling as Research Methodologies

This workshop (15–26 September 2025) equipped participants to use storytelling as an inclusive research method in the Humanities and Social Sciences, with a specific focus on addressing the challenges faced by traditionally marginalised students and scholars in virtual learning environments through technology- and AI-supported approaches.



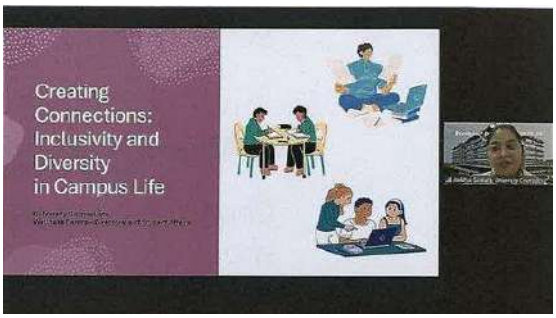
● Orientation 2025

A 12-day orientation programme onboarded 3,860 incoming students onto a single, common platform, supporting their integration into university life and ensuring every fresher — regardless of background — begins on equal footing.



● "Respecting Differences, Embracing Equality" – Gender Sensitivity Session

An interactive awareness session led by university counsellors (3,556 participants) focused on gender sensitivity, inclusivity and respect for diversity within the campus environment, reinforcing a culture that values equality irrespective of gender.



● NEP Awareness Rally 2025 and Nukkad Natak

A student rally (35 participants) and a subsequent street-play performance, Nukkad Natak (56 participants), used participatory and creative formats to spread awareness of the National Education Policy 2020 — making information about educational access and reform engaging and accessible to a wide campus audience.



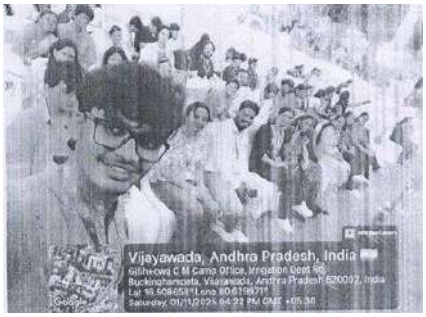
● Your Voice Matters: Suicide Prevention Day Human Chain

Students formed a human chain (41 participants) as a collective, public expression of support around Suicide Prevention Day, strengthening a sense of belonging and encouraging open, supportive engagement with mental health and wellbeing on campus.



● Unity in Diversity: State Formation Day at Raj Bhavan, AP

Students joined State Formation Day celebrations at Raj Bhavan, Vijayawada (63 participants), a cultural and national-integration event highlighting unity and participation across diverse regional backgrounds on a shared civic platform.



● Celebrating Regional and Cultural Diversity

A series of state-formation and cultural celebrations gave visibility to India's regional diversity and created shared platforms for students from different backgrounds to be recognised on campus — Assam State Formation Day, the Manipur &

Meghalaya State Formation Day, the Sikkim Cultural Evening, and Paridhaan, a stage event celebrating traditional attire and cultural expression. Constitution Day promoted awareness of constitutional values of equality and citizenship, Rastriya Ekta Diwas brought students together for a national-unity pledge, and International Women's Day recognised women's rights and leadership — extending that recognition to women employees from security and housekeeping alongside students and faculty.

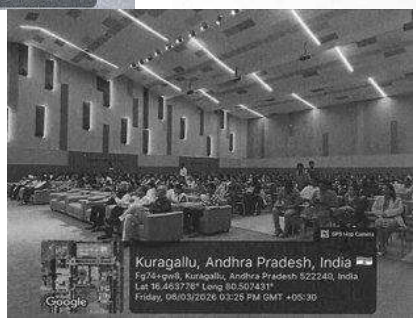












● Community Engagement Beyond Campus

NCC and NSS units jointly ran a community outreach programme at Namburu Village, engaging directly with the local population and demonstrating the University's commitment to inclusion and participation beyond its own campus.



Other Notable SDG 10 Events (Register Highlights)

The remaining events in the SDG 10 register span academic conferences, technical workshops and welfare programmes; participant numbers below are as verified in the events register.

• 50th All India Sociological Conference (AISC) 2025 — 2,951 participants — a national platform examining caste, class, gender, tribe, region and mobility-based inequalities.

• AI for Social Good: Solving Real-World Problems with Machine Learning workshop — 435 participants — applying AI to healthcare, agriculture and public-service challenges with empathy and social purpose.

• POSH – Creating a Safe, Inclusive and Respectful Campus for All — 3,536 participants — sensitisation on the Prevention of Sexual Harassment.

• Anti-Ragging Week — 125 participants — a preventive, awareness-oriented programme for a safe campus.

• AI and Transfeminism guest lecture — 78 participants — a critical, decolonial lens on gender, technology and inclusion.

• National Mathematics Day — an outreach lecture and quiz programme with local school students, celebrating Srinivasa Ramanujan and widening access to mathematics.

• Critique as Body-Work invited lecture — 76 participants — on inclusive, embodied approaches to academic writing and research.

• Mattress Distribution to Orphanage — a direct donation drive supporting children at a local orphanage.

RESEARCH & PUBLICATIONS

Scholarship advancing inclusion and equity

Between 2025 and 2026, SRM University–AP produced 26 Scopus-indexed publications classified under SDG 10: Reduced Inequality, achieving a Field-Weighted Citation Impact of 1.88 — well above the global average — with six international collaborations and 557 recorded views (Scopus/SciVal, exported 11 September 2026).

26	1.88	6	43
Scopus-indexed publications	*Field-Weighted Citation Impact*	*international collaborations*	*citations recorded*

The strongest of these publications engage directly with inequality, inclusion and social equity across disciplines — from law and urban sociology to gender studies, economics and public health:

Publications

Caste, class, city and choice: Unravelling caste-based school segregation in urban India — examines how caste continues to shape unequal access to schooling in Indian cities.

Advocacy and movement building for health rights and services for LGBTIQ communities — draws lessons from EQUAL GROUND, Sri Lanka, on advancing LGBTIQ health rights and services.

Financial Inclusion Access and Female Labour Participation in Sub-Saharan Africa — studies how financial inclusion and institutional quality shape women's participation in the labour force.

Effect of Globalization on Poverty Reduction: Global Threshold Evidence for Achieving SDG 1 — identifies the conditions under which globalisation helps rather than harms poverty reduction.

Factors affecting student diversity in higher education institutions: a data-driven case study from India — analyses what drives, and limits, diversity in Indian higher education.

Trauma reflections: an interpretive phenomenological analysis of pellet-gun victims' experiences in Kashmir — gives voice to the psychological impact of conflict on a marginalised population.

Macroenvironmental Drivers of Poverty in Developing Countries — rethinks the relationship between globalisation and sustainable development for the world's poorest economies.

CONCLUSION

Taken together, SRM University–AP's work on SDG 10 forms a connected chain: institutional commitments to inclusion and equal opportunity create an accessible campus; that accessibility empowers students, staff and the wider community; empowerment is carried outward through outreach and expressed inward through campus events; and both are grounded and extended by research that interrogates inequality itself. Each link reinforces the next, moving the University from stated intent toward measurable reductions in inequality — and, ultimately, toward lasting impact.

With 35 SDG 10–mapped events, six community outreach activities reaching orphaned and rural-school children, 26 publications on inequality and inclusion, and institutional programmes reaching thousands of students and staff in AY 2025–26, SRM University–AP's contribution to Reduced Inequalities is broad-based and growing. The University's continuing task is to deepen these commitments — widening accessibility, sustaining outreach partnerships, and further embedding equity into curricula and research — so that an equal, empowered campus becomes an equal, empowered wider community.

SDG 11

SUSTAINABLE CITIES AND COMMUNITIES

INTRODUCTION

SDG 11 calls for cities and human settlements that are inclusive, safe, resilient and sustainable, extending equally to campuses that function as living, working communities. At SRM University-AP, this commitment takes shape through responsible campus development, systematic waste management, resource efficiency, accessible infrastructure, green practices and sustained community engagement. The university approaches its campus not only as an academic environment but as a community whose everyday operations - from waste segregation and composting to hazardous-material handling - are designed to minimise environmental impact while supporting the wellbeing of students, faculty and staff. Beyond the campus boundary, SRM University-AP extends this ethos through outreach programmes, cultural events and research that engage neighbouring communities on themes of cleanliness, sustainable living and civic responsibility. The sections that follow present the University's verified quantitative performance, its core sustainability initiatives, its outreach activities, the events and programmes conducted through the year, and the research contribution that together tell SRM University-AP's SDG 11 story for 2025-26.

SUSTAINABLE CAMPUS & QUANTITATIVE HIGHLIGHTS

SRM University-AP tracks its solid- and hazardous-waste performance closely, and the figures below reflect the University's measured contribution to sustainable, resource-efficient campus operations during the reporting period.

23,972 kg *Solid waste generated / year (wet + dry)*	**7,537 kg** *Compost produced / year*	**25 kg/day** *Composting facility capacity*	**860** *Waste bins across campus (160 twin-bins + 700 general)*
2,830 kg *Hazardous waste generated / year*	**2,830 kg** *Hazardous waste disposed / year*	**1** *Dedicated hazardous-waste storage facility*	**8** *Staff trained in hazardous-waste handling*

Roughly three-tonnes of the University's annual solid waste is diverted into on-campus composting, supported by a dedicated processing capacity of 25 kg per day. A twin-bin system - 160 dedicated wet/dry bins supplemented by 700 general-waste bins - anchors source segregation across the campus. On the hazardous-waste side, the University disposes of 100% of the hazardous waste it generates through a dedicated storage facility and a team of eight trained staff, evidencing a closed, accountable handling process rather than accumulation on site.

CAMPUS SUSTAINABILITY & INITIATIVES

Solid Waste Management

The University's solid-waste programme is built around source segregation and on-site composting. Twin bins placed across academic and residential zones separate wet and dry waste at the point of generation, while a further 700 general-waste bins ensure coverage across the wider campus. Organic waste is processed at an on-campus composting facility with a daily capacity of 25 kg, converting a meaningful share of the University's waste stream into usable compost rather than sending it to landfill.

Hazardous Waste Management

Hazardous waste generated from laboratories and technical facilities is channelled through a single dedicated storage facility pending safe disposal. All 2,830 kg generated annually is fully disposed of through this facility, and eight staff members have been specifically trained in hazardous-waste handling procedures, ensuring the process is carried out safely and in compliance with institutional protocol.

OUTREACH

SRM University-AP extends its SDG 11 commitment into neighbouring communities through student-led outreach projects focused on cleanliness, waste management and sustainable living. Two verified outreach initiatives from the Paari School of Business are presented below.

- **VAC-507 Samaj Seva - Cleanliness & Waste Management Awareness**

S. Mangalagiri High School, Mangalagiri | 43 Class-5 students reached | MBA student volunteers

MBA students visited S. Mangalagiri High School and ran an interactive awareness session for Class 5 students on personal and environmental hygiene and effective waste-management practices, including proper segregation and disposal. The session combined explanation with simple, age-appropriate examples so students could connect cleanliness to their own environment and daily lives. Beyond the immediate awareness gains for schoolchildren, the activity gave the MBA volunteers hands-on experience in community engagement, communication and leadership - reinforcing SDG 11's community dimension from both sides of the exchange.






- **Project GROW - Plastic-Free Awareness Drive**

Sri Rama High School ZPHS, Mothadaka village, Tadikonda Mandal, Guntur | 56 students, Classes 6-8

Project GROW conducted a plastic-awareness session for middle-school students at a semi-rural government school, using a structured presentation on plastic types, their health and environmental effects, and the 3R principle of Reduce, Reuse and Recycle. Students completed a pre-awareness questionnaire and were assigned a creative poster-making task on 'Plastic-Free Awareness' to reinforce the session through practical expression. The initiative combined awareness, assessment and participation, aiming to instil eco-friendly habits early and encourage students to carry the message of responsible consumption back into their households.





EVENTS AND INITIATIVES

SRM University-AP mapped 40 events to SDG 11 during 2025-26 - 18 through academic departments and schools, and a further 22 through university-wide cultural, civic and student-affairs programmes. Together they span technical workshops,

community immersion, industry visits and inclusive cultural celebrations, all contributing to a safer, more resilient and more connected campus community. The strongest and best-documented of these are presented below.

● Anubhava - Summer Immersion 2026

Barefoot College, Tilonia, Rajasthan | 38 participants, 10 days

Anubhava took students to Barefoot College, Tilonia, for an immersive exposure to rural development and sustainable-living practices, including a visit to the Solar Women's Training Centre and neighbouring villages. The programme introduced participants to the social and developmental challenges rural communities face and the sustainable approaches used to address them, giving students direct insight into grassroots resilience and community-driven solutions.







● Integrating Traditions: A Symposium on Indian Knowledge Systems (IKS)

SRM University-AP | Interdisciplinary academic symposium

This symposium introduced participants to Indian Knowledge Systems and their relevance to contemporary research, fostering interdisciplinary dialogue between the humanities, sciences and technology. By highlighting traditional ecological and epistemological frameworks, the symposium strengthened academic engagement with indigenous knowledge traditions and laid groundwork for future collaborative research.





● Industrial Visit to Jindal Urban Waste Management, Guntur

Jindal Urban Waste Management Guntur Ltd. | Department of Commerce

Commerce students visited an operating urban-waste-management facility to see waste segregation, recycling processes and industrial environmental-management systems in practice. The visit strengthened students' understanding of sustainable waste practices, safety standards and industry workflows, bridging classroom learning on sustainability with real-world operational exposure.



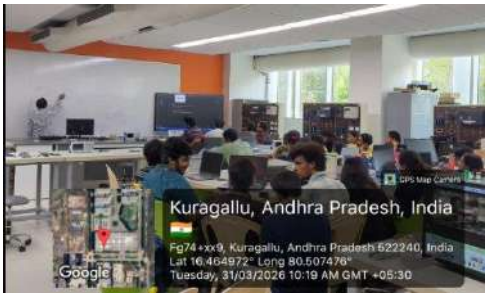


● Workshop on DSP Controllers for Electric Vehicle Applications

Department of Electrical and Electronics Engineering | Industry partner: Solidpro Engineering Support

This hands-on workshop built participants' technical skills in DSP controllers, real-time control systems and motor-drive applications for electric vehicles, equipping students with practical exposure to the systems underpinning sustainable urban mobility and encouraging further project and research work in electric-mobility technologies.





● Digital Infrastructure Workflows: Integrating BIM and GIS for Civil Engineering Construction

Online Seminar | Department of Civil Engineering

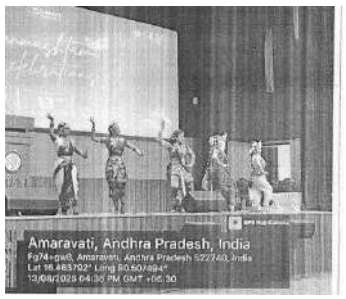
This seminar walked students through the evolution of Building Information Modelling (BIM) and its integration with GIS in planning, construction and infrastructure lifecycle management, sharpening students' understanding of data-driven, spatially-aware approaches to resilient urban infrastructure.



● Krishnastami 2025

Directorate of Student Affairs | Cultural celebration

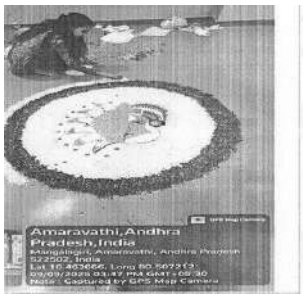
Krishna Janmashtami combined traditional puja with student-led performances - devotional music, classical dance and a theatre skit on the life of Lord Krishna - strengthening community bonding and enriching the cultural vibrancy of campus life.

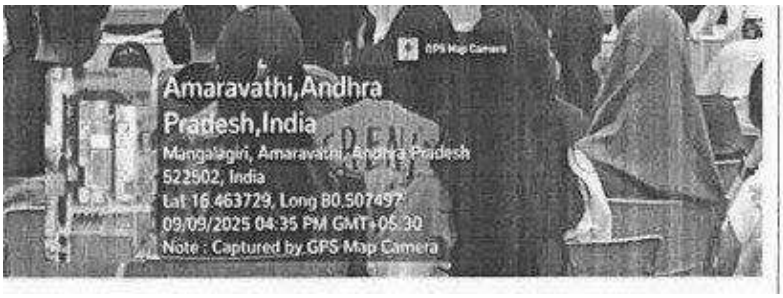


● Onam - Aaravam 2025

Directorate of Student Affairs | Cultural celebration

Aaravam 2025 celebrated Onam through a Pookalam competition, traditional games and stage performances showcasing Kerala's artistic heritage, bringing students together in a festive setting that encouraged teamwork and appreciation of cultural diversity.





● Diwali Celebrations

Directorate of Student Affairs | Cultural celebration

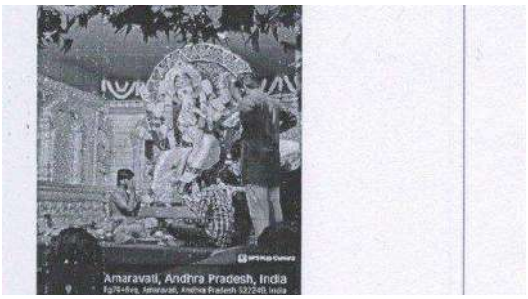
The Diwali celebration brought students together for a festive gathering with a fireworks show and collective participation, providing a shared platform for cultural expression and strengthening social connections across the campus community.



● Ganesh Chaturthi

Directorate of Student Affairs | Religious and cultural celebration

Ganesh Chaturthi combined traditional rituals with cultural performances and a clay idol-making activity that carried an explicit eco-friendly message, pairing cultural inclusivity with environmental awareness.



● Venkatapalem Temple Seva by NSS

APJ Abdul Kalam Auditorium | National Service Scheme

NSS volunteers organised a temple-seva activity at Venkatapalem, combining community service with cultural and religious participation and reinforcing student engagement with the neighbouring community.





● Manipur and Meghalaya State Formation Day

Raj Bhavan, Vijayawada | Directorate of Student Affairs

This State Formation Day programme, held at the Governor's Office, commemorated the formation of Manipur and Meghalaya and highlighted their historical and cultural significance, reinforcing appreciation of India's cultural diversity, inclusivity and national integration.



● Uttar Pradesh State Formation Day

Vijayawada | Directorate of Student Affairs

The University marked Uttar Pradesh's State Formation Day with a commemorative campus programme celebrating the state's heritage and contribution to the nation, extending the University's series of inclusive cultural observances through the year.



RESEARCH & PUBLICATIONS

Scopus/SciVal data for SRM University-AP shows sustained research activity aligned with SDG 11 over 2025-26.

105	1.52	35%	261
SDG 11-aligned scholarly publications	*Field-Weighted Citation Impact*	*International collaboration*	*Citations received*

The University's SDG 11 research portfolio is concentrated around intelligent transportation systems, vehicular ad-hoc and edge-computing networks, smart cities, and municipal solid-waste and landfill research - the leading keyphrases across the University's 105 tracked publications. Representative contributions include studies on landfill-leachate contamination and incinerated municipal-solid-waste ash for liner applications; biowaste-derived biochar for wastewater treatment; e-waste management frameworks; low-carbon and aerial-ropeway transit solutions for urban mobility; smart-city IoT dashboards and air-quality monitoring networks; and a 15-minute-city accessibility index for South Asian cities. Together, this body of work connects the University's engineering, environmental-science and management research directly to the technical and planning challenges of sustainable, resilient urban communities.

CONCLUSION

Across 2025-26, SRM University-AP's contribution to SDG 11 has been built from the ground up: a measured, closed-loop approach to solid and hazardous waste on campus; outreach that carries cleanliness and sustainable-living awareness into neighbouring schools and communities; forty events spanning technical training, industry exposure and inclusive cultural celebration; and a growing body of research addressing the real technical challenges of sustainable urban infrastructure, mobility and waste management. Taken together, these strands describe a campus that treats sustainability not as a single initiative but as an everyday, community-wide practice. Looking ahead, the University aims to build on this foundation - deepening its outreach partnerships, expanding composting and resource-recovery capacity, and continuing to translate its research strengths into practical solutions for safer, more inclusive and more resilient communities, on campus and beyond.

SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

INTRODUCTION

Sustainable Development Goal 12 calls on institutions to fundamentally rethink how resources are used, consumed, and disposed of — decoupling growth from resource degradation through efficient use of natural resources, environmentally sound management of waste, and responsible procurement and consumption practices. For a residential university campus, this translates into everyday choices: how energy is generated and used, how waste is segregated and diverted from landfill, how materials are sourced, and how the wider community is engaged in building sustainable habits.

SRM University–AP has embedded responsible consumption and production into its campus operations, academic programmes, and community outreach. The university's approach spans energy-efficient infrastructure (extensive LED lighting, sensor-based automation, and a growing rooftop solar footprint), a shift toward electric and shared mobility, active research on circular economy and waste valorisation, and sustained student-led outreach on waste segregation, plastic reduction, and resource conservation in neighbouring communities. Together, these efforts reflect a campus-wide commitment to reducing waste, improving resource efficiency, and fostering a culture of sustainable consumption among students, faculty, and staff.

RESPONSIBLE CONSUMPTION & CAMPUS INITIATIVES

The following verified figures capture the scale of SRM University–AP's resource-efficiency and clean-energy infrastructure — the operational backbone of the institution's responsible consumption practices.

27,783 *LED fixtures installed campus-wide*	**959 kWp** *Installed rooftop solar capacity*	**10.12 lakh kWh** *Renewable energy generated per year*
4.8% *Of total campus energy met by solar*	**103** *Buses (95) & electric vehicles (8) in the campus fleet*	**16,310 t CO2e** *Annual GHG emissions monitored (Scope 1+2)*

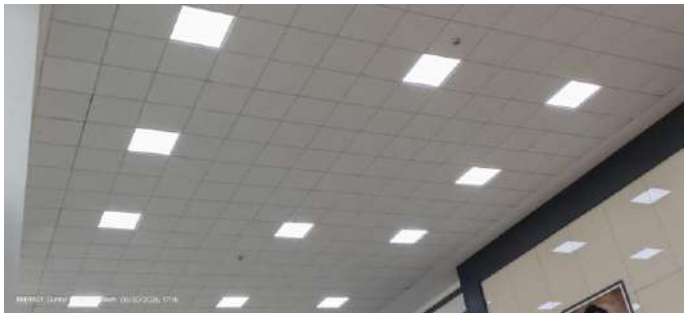
The 27,783 LED fixtures across academic blocks, hostels, and common areas represent a campus-wide shift away from conventional lighting, cutting electricity demand and the associated resource and maintenance burden of frequent bulb replacement. This is reinforced by 1,303 sensor-based devices that automatically regulate lighting and equipment use, minimising energy wasted in unoccupied spaces. On the generation side, the 959 kWp solar installation — already meeting close to 5% of campus energy demand — is being actively scaled, with three new renewable energy projects initiated in the past year alone. In transport, a fleet of 95 buses supplemented by 8 electric vehicles (89 kWh combined capacity) point to a deliberate move toward shared and low-emission mobility over individual vehicle use. Together, these measures are tracked annually against a Scope 1+2 GHG footprint of 16,310 tonnes CO2e, giving the university a measurable baseline against which future resource-efficiency gains can be assessed.

Energy-Efficient Campus Infrastructure

The photographs below document LED lighting installed across campus academic and event spaces — concrete evidence of the resource-efficient retrofits underpinning the numbers above.

● Recessed LED Panel Lighting — Academic Corridor

Energy-efficient LED panel fixtures fitted into a suspended ceiling grid along a campus corridor. LEDs consume a fraction of the electricity of conventional lighting for the same light output and last far longer, directly reducing both energy consumption and lighting-related waste from replacement bulbs.



● LED Accent Lighting — Auditorium Acoustic Wall

Integrated LED strip lighting along the acoustic wall panels of a campus auditorium, combining energy efficiency with functional design. Such fixtures are used in place of higher-wattage conventional lighting in large gathering spaces, keeping energy use proportionate to actual need.



● LED Ceiling Lighting — Lecture / Event Hall

Distributed LED point lighting set into the acoustic ceiling panels of a lecture and events space, illustrating how energy-efficient fixtures have been integrated into both new and renovated campus infrastructure rather than added only to select buildings.



OUTREACH

Through the Samaj Seva community engagement programme, SRM University–AP students run structured outreach activities in neighbouring schools, several of which are directly aligned with SDG 12 — waste segregation, reuse of materials, and reduction of single-use plastics. Four of the strongest such activities from the past year are presented below.

● Awareness Program on Waste Management and Segregation

Purpose & Beneficiaries: A Paari School of Business student team educated 56 students of Sree Rama High School, Mothadaka, on the difference between wet and dry waste and the importance of source segregation.

Activity & Outcome: Delivered as an interactive session with relatable examples and small rewards for participation, the programme left students able to distinguish waste categories and understand why segregation matters for cleanliness and environmental sustainability.



● Newspaper Craft Activity — Promoting Reuse Over Waste

Purpose & Beneficiaries: 38 boy students at a Mangalagiri school were guided to turn old newspapers into paper bags, hats, and craft items instead of discarding them.

Activity & Outcome: Framed explicitly around reusing materials and reducing waste, the session paired creativity and teamwork with a practical lesson in resource reuse, reinforcing responsible consumption habits at an early age.



● Cleanliness and Waste Management Student Engagement Program

Purpose & Beneficiaries: Conducted for 43 fifth-grade students at a Mangalagiri school, this session linked personal and environmental hygiene to effective, everyday waste management.

Activity & Outcome: Through interactive, age-appropriate discussion, students connected cleanliness practices to environmental sustainability, coming away with a clearer sense of responsible disposal habits.



● Plastic-Free Awareness Drive

Purpose & Beneficiaries: Reaching 56 students (Classes 6–8) at ZPHS Mothadaka, this session tackled plastic types, their health and environmental harms, and the 3R framework — Reduce, Reuse, Recycle.

Activity & Outcome: A presentation and pre-awareness questionnaire were followed by a poster-making task on "Plastic-Free Awareness," translating theoretical knowledge into a hands-on, responsibility-building exercise for students.



EVENTS AND INITIATIVES

Institutional records identify six events during the year as directly aligned with SDG 12, spanning industrial exposure, circular-economy research, sustainable chemistry, and ESG-focused industry dialogue.

● Industrial Visit to Jindal Urban Waste Management, Guntur

Commerce students visited an operating urban waste management facility to see waste-processing operations, segregation, and recycling workflows first-hand. Beyond bridging classroom learning with industrial practice, the visit built awareness of pollution control, resource-efficient operations, and the professional pathways available in environmental and waste management.



● Green Metallurgy and Circular Materials Recovery

Delivered by Dr Dina Magdy Abdo (CMRDI, Egypt) under an active MoU, this lecture introduced 56 attendees to environmentally responsible metal extraction and circular recovery of materials from industrial and e-waste streams — directly addressing SDGs 9, 12, and 13 and opening avenues for research collaboration in sustainable metallurgy.





● Industrial Decarbonisation: From GHG Accounting to Net-Zero Roadmap

A Department of Environmental Science and Engineering lecture on corporate GHG accounting and net-zero pathways, drawing on live industry roadmap work. The session gave 28 student and faculty attendees a working grasp of how emissions inventories translate into concrete decarbonisation and resource-efficiency strategies.

● The Role and Opportunities for ESG Managers in Various Industries

Mr Karthick V, Sustainability Manager at Rialto Enterprises, spoke to 28 attendees on how ESG functions are shaping industrial decision-making, including waste governance and responsible-production reporting — linking classroom sustainability concepts to an emerging industry career path.



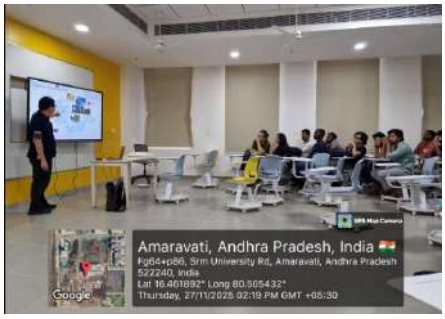
● Sustainable Catalysis for Molecular Complexity

A chemistry guest lecture by Dr Suman Dana (University of Basel) on catalytic methods engineered explicitly for resource economy, waste minimisation, and energy efficiency in organic synthesis, reaching 340 attendees and demonstrating how green-chemistry principles apply from bench-scale synthesis to biomolecular applications.



● Guest Expert Lecture: Toward Greener Phenolic Resins

Dr Seng Hua Lee (Universiti Teknologi MARA, Malaysia) presented research on substituting phenol with renewable precursors in wood-adhesive manufacturing to a mixed audience of postgraduate and undergraduate students, illustrating how substituting sustainable raw materials for petrochemical inputs supports more responsible production in the materials industry.



RESEARCH & PUBLICATIONS

SciVal-tracked activity within the SDG 12: Responsible Consumption and Production category shows a substantial and internationally connected research base at SRM University–AP.

126 *Scholarly outputs (2025–26)*	**1.46** *Field-Weighted Citation Impact*	**50** *Publications with international collaboration*
526 *Citations received*	**5,308** *Views count*	**39.7%** *International co-authorship share*

Recurring keyphrases across this output — waste treatment, electronic waste, circular economy, life-cycle analysis, biochar, and municipal solid waste — closely track the themes of SDG 12. The strongest publications for this goal are highlighted below.

Publications

Sustainable E-waste management: Global challenges, recovery techniques, and regulatory approaches — Iqbal, Dagwar & Dutta (2026). Reviews the global e-waste crisis and the recovery technologies and regulatory measures needed to close the loop on electronic waste.

Upcycling E-waste for sustainable innovation: functional materials, toxicity reduction, and circular design — Dagwar, Kundu & Dutta (2026). Explores converting e-waste into functional materials, reducing toxicity while enabling circular product design.

Sustainable recovery of rare Earth elements from industrial waste: a path to circular economy and environmental health — Dagwar, Iqbal & Dutta (2025). Examines recovering high-value rare-earth elements from industrial waste streams as a circular-economy and pollution-reduction strategy.

Recovery of metals from spent lithium-ion batteries using agricultural waste — Iqbal, Ramadan, Dagwar, Dutta & Abdo (2025). Applies agricultural waste as a resource-efficient input for recovering metals from spent batteries, tying two waste streams into one circular process.

Biowaste-derived biochars for treatment of wastewater contaminated by dyes — Chizitere Emenike et al. (2025). Converts organic waste into biochar for treating industrial wastewater, an example of waste valorisation applied to pollution control.

Plastic Pollution Management — Innovative Solutions for Plastic Waste — Ray, Singh, Ganesapillai & Ahn (2025). Surveys innovative technical and policy solutions for managing plastic waste and reducing plastic pollution.

AI-Powered Waste Segregation: Enhancing Recycling Efficiency Through Machine Learning — Nuthalapati, Muddana, Kommineni, Vegesna & Senapati (2026). Applies machine learning to automate and improve the accuracy of waste segregation, directly supporting more efficient recycling systems.

Geotechnical / Shear Strength / Physicochemical Characterization of Incinerated MSW Ash for Liner Applications (3-part study) — Kaveri & Raviteja (2025–26). A multi-part investigation into reusing incinerated municipal solid waste ash as a construction material for landfill liners — turning a waste product into a resource input.

Mining tailings as a frontier for sustainable nanomaterials: advancing circular economy and environmental innovation — Singh, Maurya, Karmakar, Maurya, Pandey, Kumar & Gupta (2025). Investigates converting mining tailings, an industrial waste stream, into sustainable nanomaterials.

Integrating sustainable development goals in higher education: A review and framework — Dutta, Moganti & Kundu (2026). Proposes a framework for embedding SDGs into higher-education institutions — directly relevant to SRM-AP's own institutional sustainability strategy.

CONCLUSION

Across infrastructure, outreach, events, and research, SRM University–AP's SDG 12 activities reinforce one another in a single continuous cycle.

From energy-efficient LED infrastructure and a growing solar footprint to circular-economy research on e-waste and biochar, and from student-led plastic-free drives in neighbouring schools to industry dialogues on ESG and net-zero pathways, SRM University–AP's contribution to SDG 12 spans the full chain from campus operations to community and scholarship. Sustained investment in resource-efficient infrastructure, combined with a growing body of applied research and consistent community outreach, positions the university to keep deepening its responsible consumption and production practices in the years ahead.

SDG 13

CLIMATE ACTION

INTRODUCTION

Sustainable Development Goal 13 calls on institutions and communities everywhere to take urgent action to combat climate change and its impacts — strengthening resilience and adaptive capacity, integrating climate measures into policy, and building climate awareness at every level of society.

At SRM University-AP, climate action is approached as a shared institutional responsibility that runs across academics, campus operations, research and community outreach. The University's contribution to SDG 13 rests on four mutually reinforcing pillars: a green, resource-conscious campus that demonstrates climate-resilient design and everyday sustainable practice; a dedicated Department of Environmental Science and Engineering driving climate-focused research, teaching and innovation; a calendar of events, lectures and student-led initiatives that build climate literacy across disciplines; and outreach programmes that extend environmental awareness, tree plantation and waste-reduction practices into neighbouring communities.

This section presents SRM University-AP's verified climate action footprint for the reporting period — from green-campus infrastructure and biodiversity-conscious landscaping, to climate research output, flagship events, and grassroots outreach — as one connected institutional story of climate mitigation, adaptation and awareness.



CLIMATE ACTION & GREEN CAMPUS

SRM University-AP's campus is designed and maintained as a living demonstration of climate-conscious infrastructure — from renewable-energy-linked waste processing to extensive tree cover and landscaped green corridors that support biodiversity, moderate the local micro-climate and reinforce a culture of environmental responsibility among students and staff.

Green Campus Infrastructure

● Biogas Plant — SDG 7 & SDG 13

The campus Biogas Plant converts organic waste generated on campus into clean energy, keeping biodegradable waste out of landfill while supporting the University's move toward renewable, low-carbon energy sources — a direct, verified link between waste management and climate mitigation on campus.



● Tree-Plantation Drives — SDG 13 & SDG 15

Regular tree-plantation drives, involving faculty and students, are rooted in a vision for lasting environmental change. Beyond adding to campus green cover, these drives directly support the climate-mitigation and biodiversity-conservation goals of SDG 13 and SDG 15 together, embedding tree stewardship into everyday campus life.



● Campus Greenery & Climate Resilience

Tree-lined avenues, landscaped hedges and ornamental plantings run throughout the SRM University-AP campus, forming green corridors between academic blocks and residences. This vegetation cover contributes to climate resilience by moderating surface temperatures, supporting local biodiversity and reinforcing the campus's carbon-conscious character — visible across the campus in every season.













Department of Environmental Science and Engineering

Climate research and teaching at SRM University-AP is anchored by the Department of Environmental Science and Engineering, which — per the University's official department page — has produced 337 publications and 17 patents to date, and offers MSc, M.Tech and PhD programmes in environmental and sustainable engineering.

Located close to the biodiversity-rich Eastern Ghats, the Bay of Bengal coastline, and Kolleru Lake — a wetland of international importance under the Ramsar Convention — giving students direct field access to diverse climate-relevant ecosystems.

Specialised research infrastructure includes a Net-Zero Lab, a Terrestrial Ecology and Modelling Lab, an Aquatic Biogeochemistry Lab, and a Coastal and Environmental Hydrology Lab, among others.

Research areas of direct relevance to SDG 13 include climate change modelling and atmospheric processes, carbon sequestration, decarbonisation, extreme climate, land-atmosphere interactions, renewable energy, and vegetation modelling.

Reference: Department of Environmental Science and Engineering, SRM University-AP — srmap.edu.in/seas/environmental-science-and-engineering

OUTREACH

SRM University-AP extends climate awareness and environmental conservation beyond the campus through student-led community outreach. During the reporting period, the Paari School of Business (PSB) delivered two outreach activities directly focused on climate awareness, tree plantation and waste reduction in neighbouring communities.

● Plantation Drive for Environmental Sustainability

Date & venue: 15 March 2026, Government Primary School, Neerukonda

Coordinators: M.V.N. Naga Lakshmi and M. Puviarasu, Paari School of Business (PSB)

Partners: Rotary Club, Green Future Initiative, and the Rotaract Club of Vijayawada Elite League

Participation: 51 attendees, including 40 community members and 11 undergraduate students

The drive saw 30 saplings planted within the school premises — ten by the student team and twenty with support from partner organisations — alongside soil-preparation work and a short awareness session on the importance of tree cover. Students were guided through the planting process while being introduced to core ideas in environmental conservation and sustainability, turning the activity into hands-on experiential learning rather than a one-off gesture.

The immediate outcome was a visibly greener, more pleasant school environment; the longer-term aim is for students to take ownership of monitoring and maintaining the saplings, extending the drive's impact well beyond planting day.







● Plastic-Free Awareness Drive

Date & venue: 2 March 2026, Sri Rama High School (ZPHS), Mothadaka village, Tadikonda Mandal, Guntur

Coordinators: Dr Nagalakshmi MVN and Dr Puviarasu M, with a six-member PSB student volunteer team

Participation: 56 students from Classes 6–8

The session combined a structured presentation on plastic types, their widespread use, and their health and environmental impacts with an interactive discussion built around the 3Rs — Reduce, Reuse and Recycle. A pre-awareness questionnaire assessed students' existing knowledge before the session, and a creative poster-making task on "Plastic-Free Awareness" reinforced the learning through practical expression.

Students left with a stronger grasp of plastic pollution and sustainable alternatives, and many expressed an intention to cut plastic use in daily life — the kind of behavioural groundwork the drive was designed to plant, alongside the trees, in the same communities.





EVENTS AND INITIATIVES

SRM University-AP recorded 17 unique SDG 13-tagged events and initiatives during the reporting period (per the University's consolidated SDG 13 event register), spanning guest lectures, summits, exhibitions, industry co-teaching sessions and experiential learning visits. The most significant, best-documented events are detailed below; the remaining events are summarised in the table that follows.

● Green Hydrogen Summit 2025

18 July 2025 · 62 participants · Partners: NREDCAP (Govt. of Andhra Pradesh), Greenko, AM Green, KPI Green Hydrogen and others

The Department convened industry and government stakeholders for a focused summit on green hydrogen as a pathway to decarbonisation, bringing together public-sector renewable energy agencies and leading green hydrogen producers active in Andhra Pradesh. The summit strengthened the University's industry linkages in the clean-energy space and gave students direct exposure to the policy and technology landscape shaping India's green hydrogen economy.



● Guest Expert Lecture Series: Extreme Weather Events — Monitoring, Prediction and Early Warning for a Sustainable Future

20 January 2026 · 2,951 participants · Speaker: Shri Anand Kumar Sharma, Regional Meteorological Centre, New Delhi

One of the department's largest-ever climate outreach events, this lecture drew nearly 3,000 attendees for a session on monitoring and forecasting extreme weather events and building early-warning systems — directly addressing the climate-adaptation and resilience dimension of SDG 13. The scale of participation reflects the depth of interest in climate risk and disaster-preparedness topics across the student body.





● Guest Expert Lecture: Valorisation of Lignin and Nanolignin for Various Applications

8 January 2026 · 358 participants · Speaker: Prof. Dr Widya Fatriasari, Research Center for Biomass and Bioproducts, National Research and Innovation Agency

This lecture examined how lignin — a byproduct of biomass processing — can be valorised into higher-value, sustainable materials, connecting circular-economy thinking with climate-conscious resource use. The session gave students insight into an international research programme working at the intersection of biomass utilisation and low-carbon materials science.





● Green Metallurgy and Circular Materials Recovery

17 April 2026 · 56 participants · MoU Partner: Dr Dina Magdy Abdo, Central Metallurgical Research and Development Institute (CMRDI), Egypt

Delivered under an international MoU partnership, this lecture explored low-carbon approaches to metals processing and the recovery of materials within a circular economy — linking industrial decarbonisation with sustainable materials management, a growing research priority for climate-conscious manufacturing.





● The Role and Opportunities for ESG Managers in Various Industries

23 February 2026 · 28 participants · Speaker: Mr Karthick V, Sustainability Manager

Aimed at building career-facing sustainability literacy, this session unpacked the growing role of Environmental, Social and Governance (ESG) managers across industries, connecting classroom learning on climate policy and reporting with real-world corporate sustainability practice.

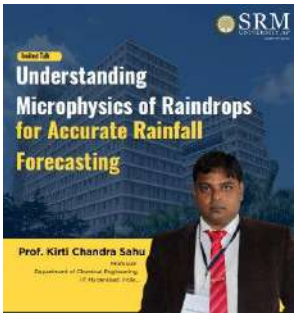




● Guest Lecture: Understanding the Microphysics of Raindrops for Accurate Rainfall Forecasting

17 July 2025 · 475 participants · Speaker: Prof. Kirti Chandra Sahu, Department of Chemical Engineering, IIT Hyderabad

This lecture brought fundamental atmospheric-science research on rainfall formation to a wide student audience, strengthening the department's engagement with the climate-modelling and forecasting themes central to its research portfolio and to SDG 13's early-warning and resilience agenda.





Other SDG 13 Events and Initiatives

Alongside the major events above, the following activities were also recorded under SDG 13 during the reporting period:

• High Efficiency Drive Systems: Current Applications and Emerging Solar-Driven Solutions — 6 July 2026 (15 participants)

• Integrating Traditions: A Symposium on Indian Knowledge Systems (IKS) — 22 May 2026 (789 participants)

• 50th All India Sociological Conference (AISC) 2025 — 28 December 2025 (422 participants)

• Industry Co-teaching (ENV 250) — 22 January 2026 (135 participants)

• Industrial Decarbonisation: From GHG Accounting to Net-Zero Roadmap — 13 April 2026 (28 participants)

• A Journey Towards the Development of Sustainable Energy Materials: Bioinspired to Hierarchical Coordination Molecules — 10 April 2026 (340 participants)

• Industry Co-teaching (ESE 505), with HP Green R&D, Hindustan Petroleum Corporation Limited — 6 October 2025 (150 participants)

• Real-Time Exposure and Experiential Learning Visit — 5 December 2025 (62 participants)

• Industrial Exposure and Experiential Learning Visit — APGENCO — 10 December 2025 (62 participants)

• Industrial Exposure and Experiential Learning Visit — 12 September 2025 (132 participants)


SRM
Palnadu, Andhra Pradesh, India
Google

RESEARCH & PUBLICATIONS

SRM University-AP's climate-relevant scholarly output, tracked under the SDG 13: Climate Action category in Scopus/SciVal for 2025-2026, reflects a growing and internationally connected research base spanning climate modelling, renewable energy, carbon capture, and environmental sustainability.

103	492	1.29
Scholarly Publications	*Citation Count*	*Field-Weighted Citation Impact*

51	49.5%	3,432
International Collaborations	*Publications Co-authored Internationally*	*Views Count*

Leading research themes: Keyphrase analysis of the University's SDG 13 publication set highlights carbon dioxide reduction, carbon capture and utilisation, green hydrogen, climate modelling, electrocatalysis, sustainable manufacturing and life-cycle analysis as recurring, high-relevance research themes — alongside direct engagement with the Sustainable Development Goals framework itself.

Publications

The following publications, drawn from the University's verified 2025–2026 SDG 13 publication list, represent some of its strongest and most field-relevant climate-related research by Field-Weighted Citation Impact (FWCI):

An overview on novel $CsPbBr_3$-based perovskite photocatalyst for environmental and energy applications Chauhan, Sambyal, Kumar, Raizada, Parwaz Khan, Selvasembian, et al. (2026) · FWCI 7.24. Reviews advances in perovskite photocatalysts with applications spanning pollutant degradation and clean-energy generation.

Experimental investigation on productivity enhancement in solar stills using phase-change material Maheswaran, Kumaresan, Vigneswaran, Prasanna Naveen Kumar (2026) · FWCI 6.52. Demonstrates encapsulated metal-foam composite phase-change materials that boost round-the-clock output of solar desalination stills — a low-carbon water-treatment technology.

Data-driven model development for the prediction of photocatalytic CO_2 conversion Meenatchi Sundaram, Franco Aguado, Uddin, Juneja, Rajendran (2026) · FWCI 6.48. Applies data-driven modelling to predict and optimise photocatalytic conversion of CO_2 into useful products, supporting carbon-capture-and-utilisation research.

Green hydrogen pathways for a net-zero future: technologies, circular economy integration, life-cycle performance and safety dimensions Kundu, Barathi, Pooja, Surya, Jacob, Koley, et al. (2026) · FWCI 5.78. A comprehensive review connecting green hydrogen technology choices to circular-economy and life-cycle outcomes on the path to net zero.

Refining offshore wind energy potential estimates through the integration of technological evolution and climate change projections Nagababu, Patwa, Puppala, Kachhwaha, Sricharan, et al. (2026) · FWCI 4.62. Integrates climate-change projections directly into offshore wind resource assessment, sharpening long-term renewable-energy planning under a changing climate.

Efficient UAV-based forest fire detection using CNN and YOLOv8 integration Bhargav, Singh (2025) · FWCI 3.96. Develops a deep-learning, drone-based system for early forest-fire detection — a climate-adaptation tool for a warming, fire-risk-prone environment.

Religion and Ecology: Religious Beliefs and Practices in Conserving Ecology and Adapting to Climate Change Among the Bishnois of the Thar Desert, Rajasthan Bikku (2025) · FWCI 4.98. Examines indigenous religious practice as a driver of ecological conservation and climate adaptation — broadening the University's climate research into the social sciences.

CONCLUSION

Across campus infrastructure, research, events and community outreach, SRM University-AP's climate action forms a single connected chain — from building awareness to taking action to demonstrating measurable impact:

SRM University-AP's engagement with SDG 13 is built on tangible, verifiable action rather than declaration alone: a campus that generates clean energy from its own waste and grows its green cover year on year; a dedicated Environmental Science and Engineering department producing internationally cited climate research; a packed calendar of climate-focused lectures, summits and industry engagements reaching thousands of students; and outreach programmes that carry tree-plantation and plastic-reduction practices into neighbouring schools and communities.

Taken together, these pillars show climate action embedded in the University's everyday functioning — in its labs, its landscaping, its lecture halls and its outreach vans alike. As SRM University-AP's research base and campus infrastructure continue to grow, so too does its capacity to contribute meaningfully to climate mitigation, adaptation and resilience — for its own campus community and for the wider Andhra Pradesh region it calls home.

SDG 14

LIFE BELOW WATER

INTRODUCTION

Sustainable Development Goal 14 calls for the conservation and sustainable use of oceans, seas and marine resources — protecting marine biodiversity, reducing pollution of aquatic ecosystems, and advancing science-based approaches to the sustainable use of aquatic resources. As an inland research university without a coastal campus, SRM University–AP's contribution to SDG 14 is anchored primarily in research, scholarship and academic engagement that address marine and aquatic sustainability challenges rather than in on-site coastal infrastructure.

Over the 2025–26 reporting period, this contribution is reflected in a growing body of peer-reviewed scholarship on marine pollution, microplastics, aquatic biodiversity and water-resource remediation; in experiential-learning events that expose students to real-world environmental impact assessment, industrial pollution control and marine bioprospecting; and in individual student and faculty research addressing coastal ecosystem processes. This section presents SRM University–AP's verified SDG 14 activity for the period, organised around quantitative research performance, events and initiatives, and an elaborated account of research and publications — the primary pillar of the university's SDG 14 story this year.

QUANTITATIVE HIGHLIGHTS

The figures below are drawn directly from SRM University–AP's SDG 14–tagged Scopus/SciVal research profile (2025–2026) and the verified SDG 14 events register. Each metric reflects the aggregate research footprint of faculty and student scholarship relevant to marine and aquatic sustainability.

41 *Scholarly Output tagged SDG 14 (SciVal, 2025–26)*	**0.83** *Field-Weighted Citation Impact*	**19** *Publications with International Collaboration*	**118** *Citations Received*
1,270 *Views Count*	**42** *Publications Compiled in Institutional Register*	**4** *Verified SDG 14 Events (2025–26)*	**46.3%** *Publications with International Co-authorship*

Recurring research themes (by relevance, based on the 41-publication SciVal cohort): Microplastics, Plastic Waste & Degradation, Aquaculture Systems, Biochar-based Water Treatment, Marine Pollution, Microbial Degradation of Pollutants, Chemical Kinetics in Remediation, Carbon Footprint & Blue Carbon.

EVENTS AND INITIATIVES

SRM University–AP's SDG 14–linked engagement during 2025–26 centred on experiential, industry-facing learning: structured exposure to statutory environmental-impact and public-hearing processes, hands-on visits to pollution-control and water-treatment infrastructure, and a departmental seminar on marine bioprospecting. Four events were verified as uniquely tagged to SDG 14 for the period, with no double-counting against other SDGs.

● Real-Time Exposure and Experiential Learning Visit — EIA Public Hearing, Nellore

On 5 December 2025, the Department of Environmental Science and Engineering organised a field visit for students to observe a live Environmental Impact Assessment (EIA) public hearing conducted near the Ramayapatnam Port area in SPSR Nellore District. The session gave students direct exposure to the statutory public-hearing process — a core mechanism through which coastal and industrial projects are screened for environmental and social impact before clearance. Students engaged with baseline assessment, impact prediction, mitigation planning and stakeholder consultation procedures central to India's environmental clearance framework. With 62 total participants (25 postgraduate students), the visit strengthened students' understanding of participatory environmental governance as it applies to large-scale coastal and industrial developments.





● Industrial Exposure and Experiential Learning Visit — APGENCO Thermal Power Station

On 10 December 2025, the same department led a visit to the Dr Narla Tatarao Thermal Power Station (NTTPS), Ibrahimpatnam, focused on energy conservation, pollution generation pathways and industrial water-treatment processes. Sixty-two students and researchers examined air, water and solid-waste pollution-control technologies, ash-utilisation practices and the environmental-compliance frameworks governing large-scale industrial water discharge — directly relevant to SDG 14's concern with land-based sources of aquatic pollution. The visit built students' practical understanding of how industrial water-treatment and emission-control systems function to limit pollutant loads reaching downstream water bodies.





● Industrial Exposure Visit — Jindal Urban Waste Management Ltd (JUWM)

On 12 September 2025, students visited Jindal Urban Waste Management Ltd in Kondaveedu village, Guntur district, to study integrated municipal solid-waste management and waste-to-energy systems. The visit covered leachate treatment, zero-discharge practices and circular-economy approaches to waste — processes directly linked to preventing land-based waste from reaching aquatic systems. With 132 participants, this was the largest of the four events. (No verified photograph was available for this event at the time of reporting.)

● Expert Talk: Exploring Marine-Based Bioactive Compounds for Biomedical Applications

On 21 August 2025, the Department of Biological Sciences hosted an expert talk by Prof. Dr C. Arulvasu, Professor and Head, Department of Zoology, University of Madras, on the discovery and characterisation of bioactive compounds derived from marine organisms. The session, attended by 75 participants including PhD scholars and faculty, examined the potential of marine-derived compounds in treating cancer, microbial infection and inflammatory disease, and discussed sustainability and scale-up challenges in marine bioprospecting. The talk directly supports SDG 14's emphasis on the sustainable use of marine biological resources and marine science capacity-building.


SRM
Expert Talk on
EXPLORING MARINE BASED BIOACTIVE COMPOUNDS FOR BIOMEDICAL APPLICATIONS
AUGUST 21, 2025
11.00 AM - 12.00 NOON
ALC-I, HOMI J BHABHA BLOCK
Prof. Dr C Arulvasu


Amaravathi, Andhra Pradesh, India

RESEARCH & PUBLICATIONS

With no dedicated SDG 14 outreach programme to report this cycle, research and publications form the centrepiece of SRM University–AP's Life Below Water story. Across 2025–26, SRM University–AP researchers produced 41 SDG 14–tagged scholarly outputs (Scopus/SciVal), achieving a Field-Weighted Citation Impact of 0.83 and drawing 19 internationally co-authored publications — engagement from institutions across 46.3% of the cohort's international collaboration base. The following themes represent the strongest concentrations of verified SDG 14–relevant research output.

Publications

• Joshi et al. (2025) — biofilm-forming marine bacteria and their role in microplastic degradation in the 'microplastisphere'.

• Goswami et al. (2025) — microplastics as hidden drivers of antimicrobial resistance in aquatic systems.

• Kumar et al. (2025) — Raman spectroscopy method for size-resolved microplastic detection in real-world samples.

• Dey et al. (2025) — microplastic pollution as an economic threat to coastal-marine ecosystems and the blue economy.

• Mari Selvam et al. (2025) — modified biochar adsorbents for phosphorus removal from wastewater.

• Paul & Selvasembian (2025) — pyrolyzed biochar for removal of the antibiotic ciprofloxacin from water.

• Polepalli & Pulla Rao (2025) — protein-based hybrid nanomaterials for water remediation.

• Simon et al. (2026) — bacterial-consortium–based aerobic remediation of polluted water.

• Kuncha et al. (2025) — smart system for oxygen optimisation and shrimp-health monitoring in aquaculture.

• Patel et al. (2025) — salinity and phosphorus as regulators of methane emissions in tropical aquaculture ponds.

• Biswal et al. (2025) — 'DeepFishNet': deep-learning model for real-time fish disease classification.

• Ramesh et al. (2025) — forecasting dissolved oxygen and aeration efficiency in brackish-water aquaculture.

• Dar & Dar (2025) — ecosystem-service trade-offs from converting a Ramsar wetland into aquaculture ponds.

• Devananda et al. (2026) — spatiotemporal mapping of wetland transformation and algal-bloom patterns, Sambhar Lake.

• Gollapalli et al. (2025) — YOLOv8 deep learning for real-time coral-reef restoration monitoring.

• Bhushan et al. (2025) — underwater data transmission and object detection using TinyML for marine monitoring.

Student Research Highlight



● Coupled dynamics of submarine groundwater discharge and coastal productivity: Insights from tidal to interannual variability

Namitha M. — M.Sc. Environmental Science & Engineering

Published in Physics and Chemistry of the Earth (Impact Factor 4.1, Q1), this student-led study examines how submarine groundwater discharge — nutrient-rich water flowing from land to sea beneath the surface — shapes coastal productivity along the Nizampatnam coast. Analysing nutrient fluxes, tidal dynamics and seasonal-to-interannual variability, the research

links invisible groundwater pathways to marine ecosystem productivity and highlights the importance of integrating groundwater management with coastal conservation planning to limit risks such as harmful algal blooms.

Full list of SDG 14–linked publications compiled for 2025–26:

Year	Title	Authors	Type	FWCI
2025	Microplastics under siege: Biofilm-forming marine bacteria from the microplastisphere and their role in plastic degradation	Joshi, G.; Goswami, P.; Jha, D.K.; Vinithkumar, N.V.; Dharani, G.	Article	2.86
2025	Sustainable approach of modified biochar based adsorbents towards enhanced phosphorus removal from wastewater	Mari Selvam, S.; Behera, B.; Chauhan, A.; Madaan, A.; Rajamanickam, R.; Akshaya, K.; Selvasembian, R.	Review	0.96
2025	Next-Generation Theragnostic Gold Nanoparticles: Sustainable Bioengineering Strategies for Enhanced Stability and Biocompatibility	Khan, S.; Dasari, V.V.; Paila, B.; Asok, S.; Nshimiyimana, W.; Bhatt, C.S.; Korupalli, C.; Mishra, A.; Suresh, A.K.	Review	0.87
2025	Potential of pyrolyzed and co-pyrolyzed biomass-derived biochar for the removal of ciprofloxacin	Paul, S.; Selvasembian, R.	Review	0.88
2025	Insights into the biodegradation and bioremediation of microplastics: mechanisms and analytical methods	Dogra, K.; Kumar, M.; Ornelas-Soto, N.; Mora, A.; Sarkar, D.; Selvasembian, R.; Deoli Bahukhandi, K.; Mahlknecht, J.	Review	0.64
2025	Microplastics: Hidden drivers of antimicrobial resistance in aquatic systems	Goswami, P.; Kanda, K.; Tamamura-Andoh, Y.; Watanabe, M.; Guruge, K.S.	Review	1.2
2025	Surface-enhanced Raman spectroscopy for size-resolved microplastic detection in real-world samples using thiophenol labeling	Kumar, J.; Jinachandran, A.; Renduchintala, M.; Soma, V.R.; Shanmugam, V.; Imamvali, S.; Tupakula, S.; Panneerselvam, R.	Article	2.16
2025	Potential Threat of Microplastic Pollution on Coastal-Marine Ecosystem– An Emerging Economic Setback and Question to Blue Economy?	Dey, U.; Chell, S.; Mondal, M.; Das, K.; Raj, D.; Pandey, G.; Meraj, G.; Kumar, P.; Almazroui, M.; Verma, S.	Review	0.73
2025	Microalgae-based nutritional supplements: Sustainable applications for high-nutritional-value food production	Rajamanickam, R.; Das, S.; T, C.; Sharma, S.; R O, R.; Prabhu, A.A.; Banerjee, S.; Azelee, N.I.W.; Krishnamoorthy, S.; Selvasembian, R.	Review	0.51
2025	A review on biopolymer nanocomposite-based membranes for oil/water separation and life cycle assessment	Syed, V.; Ray, S.S.; Selvasembian, R.	Review	0.38
2025	Protein Based Hybrid Materials of Metal Phosphate Nanoflowers and Gels for Water Remediation: Perspectives and Prospects	Polepalli, S.; Pulla Rao, C.	Review	0.37
2025	Salinity and phosphorus as key regulators of methane emissions in tropical aquaculture ponds	Patel, L.; Gowd, S.C.; Singh, R.; Thottathil, S.D.	Article	1.04
2025	Sustainable Utilization of Waste Motor Oil: A Hazardous Hydrocarbon Pollutant	Mishra, A.; Mishra, N.S.	Chapter	1.57
2025	Advanced Aquaculture Management: A Smart System for Optimizing Oxygen Levels, Shrimp Health Monitoring	Kuncha, P.; Manoranjini, J.; Sirisha, J.; Bandeela, S.; Penjarla, N.K.; Goud, S.S.	Chapter	3.66
2025	DeepFishNet: A Hybrid Deep Learning Model for Real-Time Fish Disease Classification	Biswal, S.R.; Kumar, A.V.S.P.; Punuri, S.B.; Behera, S.K.	Conference Paper	3.29
2025	Integrated Underwater Data Transmission and Object Detection System Using TinyML and Multi-Hop Networks	Bhushan, C.M.; Laskar, S.H.; Garikapati, J.S.; Sai Srihitha, P.; Hemanth Durga Kumar, S.; Gazi, F.; Hussain, M.M.	Conference Paper	2.98
2025	Tracing the Footprint of Microplastics: Transport Mechanism, Degradation, and Remediation in Marine Environment	Mukherjee, A.; Shivani Kumar, S.; Singh, R.; Sangeetha, D.; Ahn, Y.-H.; Ray, S.S.	Review	0.17
2025	Trade-offs in ecosystem services of a Ramsar wetland due to conversion into aquaculture ponds in the coastal region of Indian peninsula	Dar, S.A.; Dar, J.A.	Article	0.67

Year	Title	Authors	Type	FWCI
2025	Systematic evaluation of industrial greenbelts for quantifying carbon sequestration potential of afforestation activities	Raval, N.P.; D, A.; Ramesh, A.N.; Pandey, H.; Ghosal, P.K.; Rawal, M.; Trivedi, M.H.	Article	0.21
2026	Spatiotemporal mapping and monitoring of wetland transformations and algal bloom patterns in Sambhar Lake, India	Devananda, K.; Naik, R.; Reddy, C.S.	Article	1.33
2026	Adsorptive Recovery of Rare Earth Elements: Current Progress, Challenges and Emerging Perspectives	Chandrasekaran, R.; Wan Azelee, N.I.; Chaukura, N.; Gwenzi, W.; Offiong, N.-A.O.; Ighalo, J.O.; Raizada, P.; Prabhu, A.A.; Paul, S.; Raval, N.P.; Selvasembian, R.	Review	0.46
2025	Microbial role in degradation and removal of microplastics from aquatic environment	Dayal, L.; Kumari, P.; Raj, D.; Maiti, S.K.	Chapter	1.63
2025	Enhancing Coral Reef Restoration: Integrating YOLOv8 and Deep Learning for Real-Time Monitoring and Intervention	Gollapalli, G.S.; Gadde, M.S.B.; Gadde, M.M.; Uppuluri, B.; Senapati, R.	Conference Paper	1.26
2026	When microplastics meet emerging pollutants: Key insights on mechanistic features for environmental remediations	Roy, S.S.; Bhuvanendran, N.; Pichiah, S.; Kuila, A.; Mishra, N.S.	Article	1.35
2025	Plastic Utilization in the Modern Era: The Twenty-First Century	Jones, H.; Pathak, P.	Chapter	1.71
2025	Upcycling of Fish Scales into a Au-Templated Mechanically Extractable Sturdy and Malleable Supported Catalyst for Cleansing Water	Bhatt, C.S.; Dasari, V.V.; Suresh, A.K.	Article	0.24
2026	Pyrolytic conversion of agro-residues into functionalized biochar towards eutrophication management	Paul, S.; Selvasembian, R.	Review	0.44
2025	Defining Problems and Identifying Opportunities in Agriculture and Natural Resources	Meena, T.; Singh, V.K.; Roy, S.	Chapter	1.27
2025	Investigation on plastic-aggregates in coastal and marine pollution: Distribution, possible formation process, and disintegration prospects	Chell, S.; Mondal, M.; Ghorui, U.K.; Dey, U.; Chakrabortty, S.; Das, K.; Puppala, H.	Review	0
2026	From protection to persistence: rethinking biodiversity conservation in India	Wani, Z.A.; Rawat, Y.S.	Article	0
2025	Microplastics and Aquatic Limnology: Conception of Biogeochemical Processes	Dash, S.; Kumar, M.; Mazumder, P.	Chapter	0
2026	Integrated aerobic remediation of polluted water using a novel bacterial consortium (MBC-4): Performance, optimization, and mechanistic insights	Simon, M.; Roy, D.; Dash, S.; Shirin, S.; Joshi, H.; Shubham, K.	Article	0
2026	Integration of Solar Gel Ponds for Sustainable Energy in Reverse Osmosis Desalination	Al Amri, M.T.; Honnurvali, M.S.; Anwar, K.; Umar, T.; Nizami, T.K.	Conference Paper	0
2025	Plastic Footprint: Global Issues, Impacts and Solutions	Pathak, P.; Ilyas, S.; Srivastava, R.R.	Book	0
2026	IoT Driven Smart Innovation for Microplastic Monitoring and Detection: A Multidimensional Review	Reza, A.F.; Singh, R.; Das, K.; Chen, S.-S.; Ahn, Y.H.; Kumar, R.; Kumar, R.; Ray, S.S.	Review	0
2025	Reprint of “Optimizing aeration efficiency and forecasting dissolved oxygen in brackish water aquaculture: Insights from paddle wheel aerator”	Ramesh, P.; Jasmin, A.; Tanveer, M.; U, R.R.; Ganeshan, P.; Rajendran, K.; Roy, S.M.; Kumar, D.; Chinnathambi, A.; Brindhadevi, K.	Article	0
2026	Demineralization of marine biomass for catalytic upgrading of high-quality bio-oil production: A review	Kemala, P.; Hua, L.S.; Selvasembian, R.; Potnuri, R.; Farobie, O.; Amrullah, A.; Ariyanta, H.A.; Fatriasari, W.	Review	0
2025	Detecting Marine Plastic Waste Using Aerial and Satellite Images: A Multimodal Fusion Approach	Sai, P.L.; Venkat, K.G.; Puppala, N.S.; Shankar, T.M.R.; Lanka, L.P.V.A.; Bharadwaja, T.	Conference Paper	0
2026	Are electric vehicles green? Sustainability assessment of light-duty vehicles in India	Vigneswaran, V.S.; Gowd, S.C.; Mirthipati, M.; Meenatchisundaram, K.; Rajendran, K.	Article	0

Year	Title	Authors	Type	FWCI
2026	Techno-economic analysis of integrated cassava biorefinery for fungal protein and microalgal fish feed	Ravichandran, V.; Mani, S.; Sundaram, K.M.; Aljohani, K.; Aljohani, B.S.; Rajendran, K.	Article	0
2026	Water grabbing and the Vizhinjam sea port: care, ownership, resistance and the way forward	Latif, A.	Article	0
2026	Lateral and vertical solute transport controlling groundwater pollution in the Sundarbans: Insights from nitrate concentration and stable isotopic signatures	Mondal, M.; Sen, S.; Mukherjee, A.; Das, K.	Article	0

CONCLUSION

Across 2025–26, SRM University–AP's contribution to SDG 14 has been driven overwhelmingly by research and scholarship — 41 tagged publications spanning microplastic pollution, water remediation, aquaculture technology and coastal-ecosystem monitoring, complemented by internationally co-authored work and a growing footprint in student-led marine science. Experiential events brought students face-to-face with the regulatory, industrial and scientific dimensions of aquatic-resource protection, from EIA public hearings to marine bioprospecting seminars.

Looking ahead, strengthening SDG 14 impact will depend on consolidating the university's marine and aquatic research theme, expanding student-led coastal science of the kind demonstrated by Namitha M.'s published work, and documenting institutional facilities, policies and industry partnerships specific to aquatic sustainability so that future reports can present a fuller picture alongside this research foundation. Through continued research, innovation and responsible aquatic-resource stewardship, SRM University–AP is building a credible and expanding contribution to Life Below Water.

SDG 15

LIFE ON LAND

INTRODUCTION

Protecting terrestrial ecosystems, biodiversity and sustainable land management on and around campus.

SDG 15 – Life on Land calls on institutions everywhere to protect, restore and promote the sustainable use of terrestrial ecosystems, to halt and reverse land degradation, and to slow the loss of biodiversity. For a growing university campus, this goal is lived out less through grand gestures than through a steady accumulation of everyday choices — the trees a campus plants, the ecosystems its researchers choose to study, and the communities its students and faculty step outside the classroom to work alongside.

SRM University–AP's contribution to SDG 15 takes shape across three connected strands of activity. Departments across the University run events, industrial visits and expert lectures that build environmental literacy and expose students to the realities of land use, pollution control and ecosystem management. Student-led outreach programmes — most visibly the tree-plantation and environmental-awareness drives carried out in partnership with civic organisations such as the Lions Club of Vijayawada Medica and Rotaract Club — take that learning directly into government and private schools in the Guntur and Vijayawada districts. And underpinning both is a substantial and growing body of peer-reviewed research: 65 Scopus-indexed publications from SRM University–AP researchers between 2025 and 2026 addressing forest ecology, biodiversity conservation, invasive-species management, wetland ecosystems, wildlife science and land restoration.

Taken together, these three strands — Events & Initiatives, Outreach & Community Engagement, and Research & Publications — tell a coherent story of how SRM University–AP engages with terrestrial ecosystems: through the awareness it builds on campus, the greenery and conservation habits it helps seed in neighbouring communities, and the scientific understanding it generates and shares with the wider world.

EVENTS AND INITIATIVES

SRM University–AP's departments, schools and student-affairs offices organised a range of events during 2025–26 that engaged students with the environmental, ecological and land-management dimensions of SDG 15 — from expert lectures on sustainable materials to industrial visits examining pollution control and waste-to-energy systems, and campus outreach connecting students with underserved communities.

● Guest Expert Lecture Series — "Towards Greener Phenolic Resins"

Department of Environmental Science and Engineering · 27 November 2025 · 57 participants

As part of its ongoing Guest Expert Lecture Series, the Department of Environmental Science and Engineering hosted Dr Seng Hua Lee of the Department of Wood Industry, Universiti Teknologi MARA (Pahang Branch), Malaysia, for a session on substituting phenol with renewable precursors in sustainable wood adhesives. The talk gave fifteen PhD scholars, five faculty members and sixteen postgraduate students direct exposure to emerging green-chemistry approaches for reducing the environmental footprint of forestry and wood-based industries — connecting laboratory-level materials research to the land- and forest-resource questions at the heart of SDG 15. The session strengthened the department's international academic ties and opened a channel for future collaboration with the Malaysian institution.





● Industrial Exposure & Experiential Learning Visit — Jindal Urban Waste Management Ltd.

Department of Environmental Science and Engineering · 12 September 2025 · 132 participants · Kondaveedu Village, Guntur District

Students travelled to Jindal Urban Waste Management Ltd. (JUWM) in Kondaveedu village, Guntur district, for a hands-on look at integrated municipal solid-waste management and waste-to-energy systems. The visit walked participants through contaminant generation and remediation approaches, pollution-control and zero-discharge practices, and the regulatory standards that govern sustainable land and waste management — grounding classroom concepts of circular economy and leachate treatment in a working industrial facility, and reinforcing how responsible waste handling protects surrounding land and soil quality.





● VAC-507 Samaj Seva — Community Engagement for MBA 2025 Batch

Paari School of Business · January – April 2026 · 170 participants · Government schools, NGOs and local communities across Amaravathi, Guntur and Vijayawada

As part of the Value-Added Course "Samaj Seva," 170 MBA students engaged directly with government schools, NGOs and local communities across the Amaravathi–Guntur–Vijayawada belt. The programme was designed to nurture empathy, social responsibility and civic engagement through sustained, direct community involvement, with particular attention to underprivileged sections of society. Beyond its social-development goals, the initiative — which fed directly into student-led environmental projects such as the plantation drives described in the next section — strengthened students' understanding of the land and communities their University sits within, and their ability to translate that understanding into inclusive, sustainable action.

● Real-Time Exposure Visit — EIA Public Hearing, BPCL Ramayapatnam Port

Department of Environmental Science and Engineering · 5 December 2025 · 62 participants · SPSR Nellore District

Students attended a live public hearing conducted as a statutory component of an Environmental Impact Assessment (EIA) near the Ramayapatnam Port, Nellore district — a rare opportunity to see, first-hand, how baseline environmental and social assessment, mitigation planning and stakeholder consultation shape decisions about large-scale industrial land use. The visit reinforced students' understanding of the legal and regulatory frameworks that protect land and communities from unchecked industrial impact, and the critical role public participation plays in that process.

● Industrial Exposure Visit — APGENCO Thermal Power Station

Department of Environmental Science and Engineering · 10 December 2025 · 62 participants · Dr Narla Tatarao Thermal Power Station, Ibrahimpatnam

At Andhra Pradesh Power Generation Corporation's thermal power facility in Ibrahimpatnam, students examined large-scale energy generation alongside its environmental management: air, water and solid-waste pollution-control technologies, ash-utilisation practices, and the statutory frameworks governing emissions and environmental compliance. The visit gave engineering students a concrete picture of how industrial land use is regulated to minimise ecological impact.

● Co-Teaching Session (VAC 101) — Environmental Protection Act

Department of Environmental Science and Engineering · 6 April 2026 · 76 participants · Online

A co-teaching session introduced undergraduate students to the key clauses of India's Environmental Protection Act, building foundational legal literacy around land, ecosystem and pollution protection that underpins much of the department's later field-based teaching.

● Industrial Visit & Nature Exploration Programme

Directorate of Student Affairs · 76 participants · Jindal Urban Waste Management (Guntur) Ltd. and Kondapalli Artisan Street, Vijayawada

The Directorate of Student Affairs organised a combined educational and experiential-learning outing pairing a visit to a municipal waste-management facility with an exploration of the historic Kondapalli Artisan Street — connecting sustainable land and waste management with an appreciation of the natural and cultural landscape of the surrounding region.

OUTREACH & COMMUNITY ENGAGEMENT

Some of SRM University–AP's most tangible contributions to SDG 15 have come through student-led outreach that puts saplings in the ground alongside the children who will watch them grow. Two linked initiatives — conducted under the Samaj Seva (VAC 207) value-added course — carried environmental-awareness sessions and tree-plantation drives into government and private schools across the Vijayawada–Guntur region, working in partnership with civic service organisations.

Green Future Initiative — Environmental Awareness & Tree Plantation Drive

Paari School of Business (MBA – Samaj Seva, VAC 207) · March–April 2026 · Partner: Lions Club of Vijayawada Medica (District 3160)

A team of four MBA students — K. Bhargavi, Keerthi Tammina, Shanwanth Veerapaneni and Harsha Dayma, under faculty mentors Dr Nagalakshmi MVN and Dr Puviarasu M — designed and ran a dual-school Environmental Awareness and Tree Plantation Drive in partnership with the Lions Club of Vijayawada Medica. After visiting five prospective schools, the team conducted full plantation-and-awareness programmes at Nalanda Vidyaniketan, Vijayawada (11 March 2026) and at the government-run Neerukonda Primary School, Mangalagiri, where the Rotaract Club joined as an additional collaborator. Each session combined a demonstration of correct sapling-planting technique, hands-on planting by every participating student, an interactive awareness talk covering climate change, deforestation and the value of urban green cover, and a knowledge-reinforcing quiz.

Across the two schools, roughly 60 saplings — a mix of tree species and flowering plants — were planted by around 40 students at each site. A structured feedback check three weeks later found that all planted saplings were healthy and being actively watered and cared for by the students themselves, with the Neerukonda head-teacher rating the overall impact "Excellent" and noting a clear behavioural shift toward plant care and cleanliness. The initiative was formally recognised with Letters of Appreciation from the Government of Andhra Pradesh's Department of School Education, from Nalanda Vidyaniketan, and from the Lions Club of Vijayawada Medica, and it aligned explicitly with SDG 3, 4, 13, 15 and 17.











Plantation Drive for Environmental Sustainability — Government Primary School, Neerukonda

Paari School of Business · 15 March 2026 · 40+ participants · Partner: Rotaract Club of Vijayawada Elite League

In a related outreach activity, faculty coordinators M.V.N. Naga Lakshmi and M. Puviarasu led a plantation drive at Government Primary School, Neerukonda, in partnership with the Rotaract Club of Vijayawada Elite League. Thirty saplings were planted within the school premises, with students actively involved in the planting and taught the basics of environmental conservation and sustainability. The activity formed part of a broader "Shiksha & Swachhata" community-development effort at the same school addressing hygiene, sanitation and environmental awareness together, and was carried out at a total cost of ₹2,950. Post-activity recommendations emphasised regular watering and assigning student ownership of individual saplings to sustain the greenery the drive created.

RESEARCH & PUBLICATIONS

Research is where SRM University–AP's contribution to SDG 15 runs deepest. Scopus/SciVal data for 2025–2026 records 65 scholarly outputs from SRM University–AP researchers mapped to SDG 15 – Life on Land, with a Field-Weighted Citation Impact of 1.09 (above the global average of 1.0) and 33 publications — just over half — carried out through international collaboration. These publications have together been viewed 1,904 times and cited 205 times, and cluster around recurring keyphrases including protected areas, tropical forests, habitat fragmentation, invasive species such as Lantana camara, forest management, biochar and biological water treatment — evidence of a genuinely sustained, multi-disciplinary research effort rather than isolated papers.

65	1.09	33	205
SDG 15-mapped publications (2025–26)	*Field-Weighted Citation Impact*	*Internationally co-authored papers*	*Citations received*

Publications

The strongest and most directly relevant strands of this research are grouped below into four thematic areas that together span the core concerns of SDG 15 — forest ecosystems and carbon, invasive-species management, climate-driven biodiversity conservation, and wildlife, wetlands and monitoring technology.

Disturbance intensity drives structural, compositional and diversity attributes in tropical dry forests of Central India — Investigates how varying intensities of ecological disturbance shape the structure, species composition and diversity of tropical dry forests — evidence directly relevant to sustainable forest management and resilience planning. (2025, Article)

Does Protection Status Affect Tree Diversity, Regeneration, and Carbon Storage in India? Evidence from Sal (Shorea robusta) forests of Madhya Pradesh — Examines whether formally protected status measurably affects tree diversity, natural regeneration and carbon storage in India's Sal forests, informing how protected-area policy can be made more effective. (2026, Article)

Systematic evaluation of industrial greenbelts for quantifying carbon sequestration potential of afforestation activities — Develops a systematic approach to quantifying how much carbon industrial greenbelt afforestation can sequester, offering a practical evidence base for land-restoration and afforestation planning. (2025, Article)

Invasive shrub (Lantana camara L.) alters the tree diversity and ecosystem-level carbon pools in tropical forests of Central India — Studies how the spread of the invasive shrub Lantana camara affects native tree diversity and ecosystem-level carbon storage in Central India's tropical forests — a key concern for land degradation and restoration. (2025, Article)

Distribution pattern and habitat suitability modelling of an invasive plant species – Solanum viarum Dunal — Models the current distribution and habitat suitability of the invasive Solanum viarum, supporting early identification of at-risk terrestrial ecosystems. (2025, Article)

Assessing future invasion risk by Solanum viarum Dunal in Northwestern Himalaya to inform early detection and management — Projects future invasion risk of Solanum viarum across the Northwestern Himalaya to guide early-detection and management strategies that protect native ecosystems. (2026, Article)

Conservation deficits and climate-driven habitat shifts of threatened plants in South Asia — Assesses gaps between where threatened South Asian plant species occur and where conservation protection is actually in place, as climate change shifts suitable habitats. (2026, Article)

From protection to persistence: rethinking biodiversity conservation in India — Reflects on how India's biodiversity-conservation approach might evolve from simply designating protected areas toward ensuring the long-term persistence of species and ecosystems. (2026, Article)

Improving ecosystem vitality in India: overcoming barriers to meet National and International targets — A review examining the practical barriers India faces in meeting national and international ecosystem-vitality targets, and how they might be overcome. (2025, Review)

Unveiling a novel morphometric approach in claws and canines for species discrimination and age stratification in leopard (Panthera pardus fusca) — Develops a new morphometric method using claw and canine measurements to distinguish species and estimate age in the Indian leopard, supporting wildlife-forensic and conservation research. (2025, Article)

Trade-offs in ecosystem services of a Ramsar wetland due to conversion into aquaculture ponds in the coastal region of Indian peninsula — Examines the ecosystem-service trade-offs that occur when a Ramsar-listed coastal wetland is converted into aquaculture ponds — a direct contribution to understanding land-use change pressures on protected wetlands. (2025, Article)

DTFD: A Transformer Approach for High-Resolution Satellite Image Forest Change Detection — Applies a transformer-based deep-learning model to high-resolution satellite imagery to detect forest change, offering a scalable technology for monitoring deforestation and land-cover change. (2025, Article)

Beyond these highlighted studies, the broader SDG 15 publication portfolio extends into phytoremediation and reclamation of mining-contaminated soils, wetland and algal-bloom monitoring, treeline regeneration in the Himalaya, species-distribution modelling as a forest-management tool, and community-based conservation ethics — together demonstrating the breadth of SRM University–AP's intellectual contribution to understanding and protecting life on land.

CONCLUSION

The story SRM University–AP tells through SDG 15 is one of a continuous loop: awareness built in lecture halls and industrial visits feeds directly into hands-on conservation action in partner schools; that outreach, in turn, is shaped and informed by a substantial body of peer-reviewed research into forests, invasive species, wildlife and land restoration; and the greenery, habits and partnerships this work creates leave a visible, growing footprint in the communities around the University.

From a Guest Expert Lecture on sustainable wood adhesives to a leopard-conservation morphometric study, from an industrial visit to a waste-to-energy plant to sixty saplings taking root in two Vijayawada-region schools, SRM University–AP's engagement with SDG 15 spans the full arc from Biodiversity Awareness through Conservation, Greenery & Ecosystems, Community Engagement, Events, and Research & Innovation to genuine Sustainable Land Stewardship. As these events, partnerships and publications continue to grow year on year, SRM University–AP is building a lasting institutional habit of protecting, restoring and understanding life on land — one lecture, one plantation drive and one published study at a time.

SDG 16

PEACE, JUSTICE AND STRONG INSTITUTIONS

INTRODUCTION

Sustainable Development Goal 16 calls on institutions everywhere to build peaceful, just and inclusive societies — societies grounded in accountable governance, equal access to justice, respect for human rights, and the rule of law. For a university, this translates into a very concrete mandate: shaping graduates who understand their rights and responsibilities as citizens, who can recognise and resist injustice, and who carry an ethic of fairness, safety and civic participation into every institution they go on to serve.

At SRM University–AP, this mandate is visible across three connected strands of institutional life. The university runs a sustained calendar of campus programmes on ethics, safety and civic values — from anti-ragging and anti-harassment awareness to constitutional and democratic literacy — that reach thousands of students and staff every year. Its faculty and students carry this commitment beyond the campus gates through outreach that supports vulnerable children, rehabilitation-centre communities and government-school students with drug-awareness, personal-safety and life-skills programmes. And its research community is producing a substantial and internationally engaged body of scholarship on governance, democracy, human rights and institutional accountability — scholarship that is itself a form of contribution to SDG 16's knowledge base.

The pages that follow bring these three strands together — campus initiatives, community outreach, and research and publications — to present a single, evidence-based account of how SRM University–AP is contributing to peace, justice and strong institutions, drawn strictly from the university's own verified activity, event and publication records for 2025–26.

PEACE, JUSTICE & STRONG INSTITUTIONS — CAMPUS INITIATIVES

Across the academic year, SRM University–AP's Directorate of Student Affairs, NCC, NSS and academic departments ran a dense calendar of campus-based initiatives that speak directly to SDG 16's emphasis on safety, ethics, equality and democratic participation. Reconciling the university's event records — merged across departmental, Student-Affairs and intranet logs and de-duplicated so that the same activity is not counted twice — these initiatives cluster around four themes that anchor the university's SDG 16 contribution.

45	3,536	3,556	33
SDG 16-aligned campus events recorded in 2025–26	*students & staff reached by the POSH awareness programme*	*participants in the gender-sensitivity session*	*SDG 16-linked Scopus publications*

Student Safety & Responsible Behaviour

Safety and the prevention of harassment anchor the university's institutional response to SDG 16. Anti-Ragging Week and a dedicated Anti-Ragging Awareness and Enforcement Meeting — attended by the Pro Vice-Chancellor, the Associate Director of Student Affairs, wardens, counsellors and security personnel — set expectations for student conduct at the start of the year. These were followed by a university-wide POSH (Prevention of Sexual Harassment) awareness and sensitisation programme and a companion session on gender sensitivity, both aimed at building a safer, more respectful campus, and, in partnership with the Directorate of Student Affairs, a Good-Touch/Bad-Touch personal-safety programme for younger children in nearby government schools (detailed under Outreach).

Legal Awareness & Democratic Values

A recurring strand of programming builds students' understanding of the Constitution, law and democratic institutions: Constitution Day observances, a Republic Day celebration, and a public Book Discussion on "Constitution of India: 75 Years of World's Largest Democracy" with historian Prof. V. Krishna Ananth. These were complemented by faculty-led lectures examining the health of Indian democracy in practice — including a guest lecture on the fragmentation of parliamentary opposition and a lecture theorising world politics for an international-relations audience — giving students both the ceremonial and the analytical dimensions of civic life.

Ethics, Integrity & Civic Participation

National Youth Day, Rashtriya Ekta Diwas (National Unity Day), a NEP-linked street-play ("Nukkad Natak") on ethics, and state-formation-day observances for Assam, Manipur and Meghalaya reinforced civic identity and national integration as part of everyday campus life, run largely through the Directorate of Student Affairs and NCC.

Institutional & Community Awareness

The university also used its own institutional processes as a teaching moment for accountability: a comprehensive stakeholder survey (the "Zykrr" exercise), presented to the Vice-Chancellor, Registrar, Deans, Directors and student representatives, was explicitly framed around transparency and actionable institutional improvement. A Cyber Crime Awareness Programme, run jointly by NSS and the Directorate of Student Affairs, extended this institutional-safety focus into the digital domain.

OUTREACH & COMMUNITY ENGAGEMENT

Beyond the campus, SRM University–AP's students and staff carried SDG 16's commitments to justice, safety and inclusion into schools, an NGO-run children's home and a drug-rehabilitation centre in and around Vijayawada, Amaravati and Mangalagiri — reaching orphaned and underprivileged children, government-school students and individuals in recovery.

- **Skill Empowerment and Drug Awareness Initiative**

Six MBA students from the Paari School of Business (Group 17 – "Awaken", VAC 507 Samaj Seva, guided by faculty coordinators Dr. Nagalakshmi M V N and Dr. Puviarasu M) ran a seven-week community-service programme — 1 February to 29 March 2026 — in partnership with the Nava Jeevan Bala Bhavan Society, a Vijayawada NGO that shelters and rehabilitates orphaned children and operates a de-addiction and recovery centre.



Purpose & Reach

Digital-literacy, financial-literacy, leadership and career-guidance sessions were delivered to roughly 30 orphaned children at the NGO's Mangalagiri facility over the first two weeks, building practical skills the children had had little earlier exposure to.

Rehabilitation-Centre Engagement

The team then conducted an empathetic, non-judgemental drug-awareness session directly at the NGO's rehabilitation centre in Vijayawada, engaging both staff and individuals in recovery in open discussion about the physical, mental and social effects of addiction.





Building School Partnerships

Formal permission visits to Universal School (Undavalli), ZPH School (Mangalagiri) and Ravindra Bharathi School (Tadepalli) secured access to run age-appropriate drug-awareness sessions for classes 6–10, with all three schools issuing letters of appreciation for the initiative.

Interactive Awareness & Pledge

At Universal School, sessions combining "Myth vs Fact" activities, group discussion and a skit culminated in the "Promise Tree" pledge activity, in which students committed in writing to a drug-free life — an exercise the school and NGO both cited as encouraging genuine personal accountability.



Across the seven weeks, the team's own impact assessment records more than 100 individuals reached across orphanage, school and rehabilitation-centre settings, with a fully itemised expenditure statement (total ₹12,732, covering travel, refreshments and activity materials) and signed letters of appreciation from Universal School, ZPH School and the Nava Jeevan Bala Bhavan Society. Beyond immediate awareness, the students themselves reported developing communication, empathy and stakeholder-negotiation skills — the kind of grounded civic competence SDG 16 depends on.

● Good Touch and Bad Touch – Child Safety Awareness Programme

Personal Safety for Younger Children

Run by the Directorate of Student Affairs at MPPS (government primary) school, this programme was delivered by Alekhya Sankara, a trained psychologist and university counsellor, to primary-school children in classes 1–5. Through storytelling and age-appropriate, interactive discussion, the session taught children to recognise appropriate and inappropriate touch, to say "no" confidently, and to report unsafe situations to a trusted adult.

Around 150 students from classes 1 to 5 took part, alongside four faculty members, and the session received a strongly positive response from both students and teachers — helping build the foundations of personal safety and self-respect that SDG 16's protection agenda depends on from the earliest possible age.



EVENTS AND INITIATIVES

Reconciling SRM University–AP's full SDG 16 events record — faculty-led academic events, Directorate-of-Student-Affairs programmes, and NCC/NSS activities alike — into a single, de-duplicated list yields 45 distinct SDG 16-aligned events held across the year. The strongest and best-documented of these, spanning justice, democracy, human rights and institutional awareness, are presented below with their original event photography; further verified events are summarised beneath.

● Chaityabhumi: Film Screening and Discussion

24 September 2025 • Department of Media Studies & Department of Sociology and Anthropology • Theatre, SR Block

A screening of documentary filmmaker Somnath Waghmare's Chaityabhumi, followed by a director's discussion, created an academically rigorous space for students and faculty to examine caste, social justice, memory and political assertion in contemporary India. The conversation connected classroom theory to lived Ambedkarite history, strengthening the university's commitment to inclusive academic discourse on marginalised narratives and the politics of representation.



● Book Discussion: "Constitution of India — 75 Years of World's Largest Democracy"

26 November 2025 • Department of History, ESLA • 109 attendees

Historian Prof. V. Krishna Ananth (Sikkim University) and journalist Mr. Saurav Das discussed India's constitutional journey at its 76-year milestone, deepening student and faculty engagement with debates on constitutionalism, democracy and institutional accountability, and contributing to public understanding of the Constitution as a living democratic document.





● Guest Lecture: Fragmentation and Crisis of Opposition — (Un)Making of Parliamentary Opposition in India

25 March 2026 • Department of Political Science, ESLA • Speaker: Dr. Rupak Kumar, VIT Vellore

Drawing on political memoirs, newspapers and parliamentary records, this lecture traced the historical decline of an effective parliamentary opposition in India, arguing that opposition is essential not for symbolic resistance but for holding the executive accountable. The talk directly engaged SDG 16's concern with transparent, accountable democratic institutions and the erosion of dissent.

● 50th All India Sociological Conference (AISC) 2025

28–30 December 2025 • Department of Sociology and Anthropology, ESLA, with the Indian Sociological Society • 1,283 external delegates

SRM University–AP hosted the golden-jubilee national conference of the Indian Sociological Society on the theme "Mobilities and Inequalities: Shifting Contexts, Changing Paradigms", bringing scholars nationwide to examine how caste, class, gender, tribe and region shape unequal access to mobility and resources — directly advancing SDG 16's research agenda on inequality, justice and inclusive institutions.





● Workshop: Rendering the Invisible — Researching Marginality in the Social Sciences

30 March – 1 April 2026 • Department of Sociology and Anthropology, ESLA • 161 participants

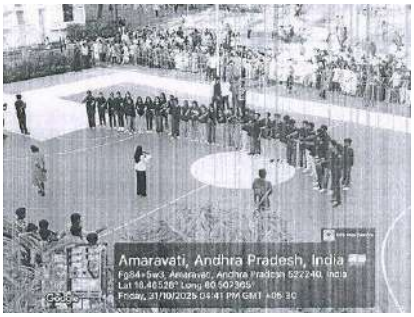
Six invited scholars led a three-day methodology workshop on researching marginality with care and accountability, covering intersectionality, power and "cultures of knowing", and methods such as sensory ethnography — equipping researchers to study inequalities of caste, class, gender and location more reflexively and responsibly.

● Constitution Day & Republic Day Observances

26 November 2025 and 26 January 2026 • Directorate of Student Affairs • 60 and 328 participants respectively

Annual observances of Constitution Day and Republic Day brought students and staff together to mark India's constitutional and democratic foundations, reinforcing civic identity and democratic values as part of everyday campus life.









● NCC Combined Outreach Programme, Nambur Village

2 May 2026 • National Cadet Corps • 53 cadets

NCC cadets carried out a combined community-outreach programme at Nambur Village, extending the university's civic and social-service engagement — a Social Service and Community Development activity — into a rural setting beyond the campus.

● Summer School: Reading the Past, Rethinking the Present

26–28 May 2026 • Department of History, ESLA • 66 participants

A history summer-school introduced school students to heritage walks, source analysis and policy-simulation exercises, building critical, evidence-based thinking about how historical knowledge informs public policy and contemporary civic debate.



Further verified SDG 16 events (2025–26)

• Anti-Ragging Week and Anti-Ragging Awareness & Enforcement Meeting — Directorate of Student Affairs

• POSH — Creating a Safe, Inclusive and Respectful Campus for All (3,536 participants, online)

• "Respecting Differences, Embracing Equality" — Session on Gender Sensitivity (3,556 participants)

• NCC Inauguration; NCC Cadets Rank Promotion; Simulator Firing Practice; Firing Practice & Selections (IDSSC/TSC)

• Independence Day and Republic Day cultural observances; Assam, Manipur & Meghalaya State Formation Day celebrations

• National Youth Day and NEP "Nukkad Natak" street-play on ethics — Directorate of Student Affairs

• Cyber Crime Awareness Programme — jointly organised by NSS and the Directorate of Student Affairs

• Student Council Core Team Valedictory — formal recognition of student civic leadership (1,180 attendees)

• Zykrr institutional stakeholder-survey presentation to university leadership on transparency and improvement

• Lecture: "Making Sense of the World: Theorising World Politics" — Prof. Siddharth Mallavarapu, Dept. of Political Science

• Workshop: "Numbers to Narrative: Telling Stories with Data" — data and investigative-journalism ethics, Media Studies

• Workshop: Storytelling as Research Methodology for Humanities & Social Sciences — inclusive, marginalised-voice-centred pedagogy

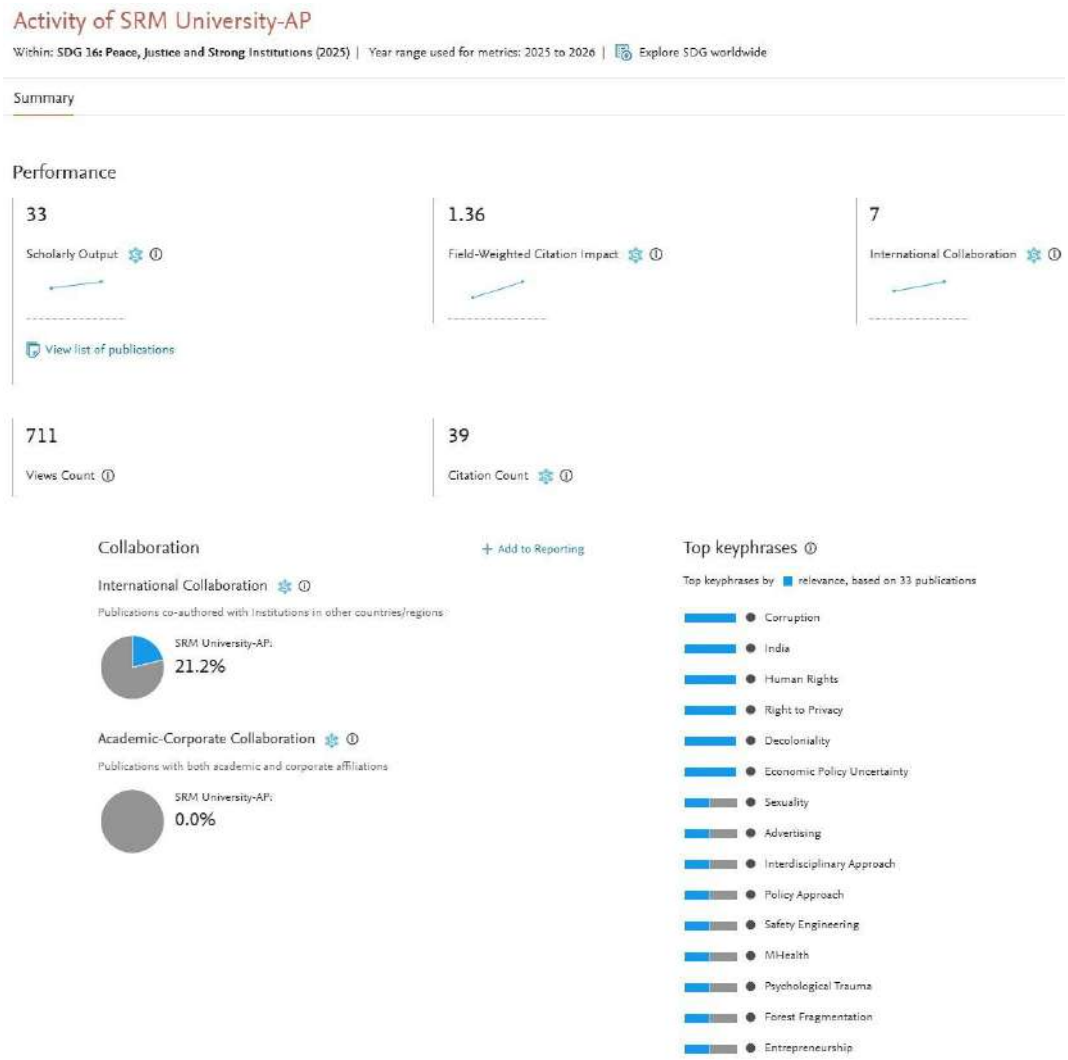
• Publishing-ethics workshops: Open Access Publishing; Navigating Changes in the Publication Landscape (Wiley) — research integrity

• Co-teaching sessions on digital forensics and cybersecurity ethics (CYS 507 / CSE 461) — institutional and legal awareness of cybercrime

RESEARCH & PUBLICATIONS

SRM University–AP's research output under SDG 16 forms a substantial and internationally engaged intellectual pillar of the university's contribution to peace, justice and strong institutions. Scopus-indexed analytics (SciVal, data current to September 2026) record 33 scholarly outputs mapped to SDG 16 for 2025–2026, with a Field-Weighted Citation Impact of 1.36 — meaning these outputs are, on average, cited 36% above the world average for their fields — and international co-authorship spanning 7 collaborating countries.

33	1.36	7	711
SDG 16 scholarly outputs (2025–26)	*Field-Weighted Citation Impact*	*countries in international collaboration*	*views • 39 citations*



The keyphrase analysis above — led by terms such as Corruption, Human Rights, Right to Privacy and Decoloniality — reflects a genuinely justice-and-institutions-centred research base rather than a loosely-tagged one. Read alongside the full publication list, this scholarship clusters into four thematic strands, each contributing distinctly to SDG 16's targets on institutions, justice, human rights and peaceful societies.

A cluster of publications examines the functioning and accountability of institutions directly: "Institutional corruption: Some issues" (Patibandla) interrogates the drivers and consequences of institutional corruption, while "Institutional governance and energy security: Unveiling the drivers of global value chain participation in Asian economies" (Ali, Saini & Dash) and "Governance, Entrepreneurship, and the Path to Sustainable Development in BRICS Economies" and its companion "Threads of Freedom, Codes of Innovation: Governance's Loom in the G20's Sustainability Tapestry" (Navin, Ayyagari, Rajan et al.) examine how governance quality shapes sustainable economic participation across major economic blocs.

SRM University–AP's political-science and gender-studies researchers have produced a coherent body of work on Indian democratic institutions: "The Intersection of Culture and Politics: Understanding Women's Underrepresentation in Indian Democracy" and "Role of Nominated Members of Rajya Sabha in Indian Legislative Processes" (both Thomas et al.) examine structural barriers and mechanisms of representation, while "Indian General Elections 2024" and "Climate commitments and democratic contradictions: India's Panchamrit policy in comparative South Asian perspective" extend this institutional lens to electoral politics and the democratic accountability of climate policy.

The largest and most distinctive cluster addresses human rights and justice directly. "Advocacy and movement building for health rights and services for LGBTIQ communities" documents lessons from EQUAL GROUND, Sri Lanka; "Interlinkages Between Intimate Partner Violence and Adverse Pregnancy Outcomes among Indian Women" and "Trauma reflections: an interpretive phenomenological analysis of pellet-gun victims' experiences in Kashmir" examine the human cost of violence; and "Healthcare Services Utilizing State-of-the-Art Image Analysis: A Dilemma Regarding the Right to Privacy" and "SAFE AI: Designing a Gender-Responsive and Child-Safe AI Framework" bring institutional and rights-based scrutiny to emerging technology. A distinctive strand of decolonial media scholarship — "Drawing (in) the margins: decolonising human rights and political frames in Indian comics on indigeneity", "Fractured identities and wounded memories in Indian comics on partition", and "Traversing through transmedia... gender-based violence in Ram Devineni's Priya series" — examines how popular visual culture represents rights, identity and violence.

A further strand addresses the safety and integrity of institutions and digital systems: "Enhancing sarcasm detection in sentiment analysis for cyberspace safety" and "FeSATLock: An Energy Efficient and SAT Attack Resilient Logic Locking Design... for Enhanced Hardware Security" strengthen technical foundations for institutional and cyber security, while "Reconciling Privacy and Explainability in High-Stakes" and "A decision support system for adaptive fund allocation in blockchain-based crowdfunding" examine accountability and transparency in algorithmic decision-making — a growing frontier for SDG 16 in a digital era.

Taken together, this publication record — spanning law, political science, sociology, media studies, public health and computer science — demonstrates that SRM University–AP's contribution to SDG 16 is not confined to campus programming, but extends into a genuine, internationally recognised knowledge contribution on peace, justice and institutional accountability.

CONCLUSION

Across a full academic year, SRM University–AP's contribution to SDG 16 has taken shape as a connected chain rather than a set of isolated activities. Campus programmes on safety, ethics and constitutional literacy build awareness among thousands of students; outreach carries that same ethic of justice, safety and dignity to orphaned children, government-school students and individuals in recovery beyond the campus; a rich calendar of events gives both staff and students recurring, visible opportunities to engage with democracy, human rights and institutional accountability; and a genuinely international body of research on governance, justice and human rights ensures that this commitment also advances the wider scholarly understanding that SDG 16 depends on.

Sustained together, these strands — awareness, ethical values, inclusion, community engagement, events and research — constitute SRM University–AP's evidence-based, ongoing contribution to building peaceful, just and inclusive institutions, both within its own campus and in the communities it serves.

SDG 17

PARTNERSHIPS FOR THE GOALS

INTRODUCTION

No goal can be reached alone

Sustainable Development Goal 17 recognises that no goal can be reached alone. It calls for strengthened means of implementation and a revitalised global partnership in which governments, universities, businesses, civil society and communities share knowledge, expertise, technology and resources. Its targets stress capacity building, the exchange of research and technology, multi-stakeholder partnerships, and reliable data with which progress can be monitored.

Universities are natural partners in this effort. They produce research with scholars and practitioners elsewhere, convene government, industry and civil society for dialogue, prepare faculty and students through education that links to the Goals, and take learning and service to the wider community. The sections that follow show how the research, events, teaching and community projects of SRM University-AP relate to these principles during Academic Year 2025–26, running from July 2025 to June 2026.

HOW UNIVERSITIES CONTRIBUTE TO SDG 17



DATA AND KEY HIGHLIGHTS

SDG 17 at a glance

The indicators below bring together the partnership agreements signed during the academic year, the events and teaching sessions held in it, the student-led community activities of March to May 2026, and research collaboration data. Each figure states the period it covers.



PARTNERSHIP AND ENGAGEMENT TIMELINE, AY 2025–26

JULY–SEPTEMBER 2025

18–19 Jul	Green Hydrogen Summit
18–22 Aug	FDP on embedding SDGs in curricula
24 Sep	Research seminar on quantum materials

OCTOBER–DECEMBER 2025

6–10 Oct	Class groups of number fields conference
10–11 Oct	3rd Research Scholars' Summit
6–8 Nov	EPIC 2025 conference
22 Nov	Pulse power theme meeting
26 Nov–5 Dec	Co-teaching 1 (VAC 101)
17–18 Dec	Centre–margin dynamics conference
21–23 Dec	DACS 2025 conference
28–30 Dec	50th All India Sociological Conference

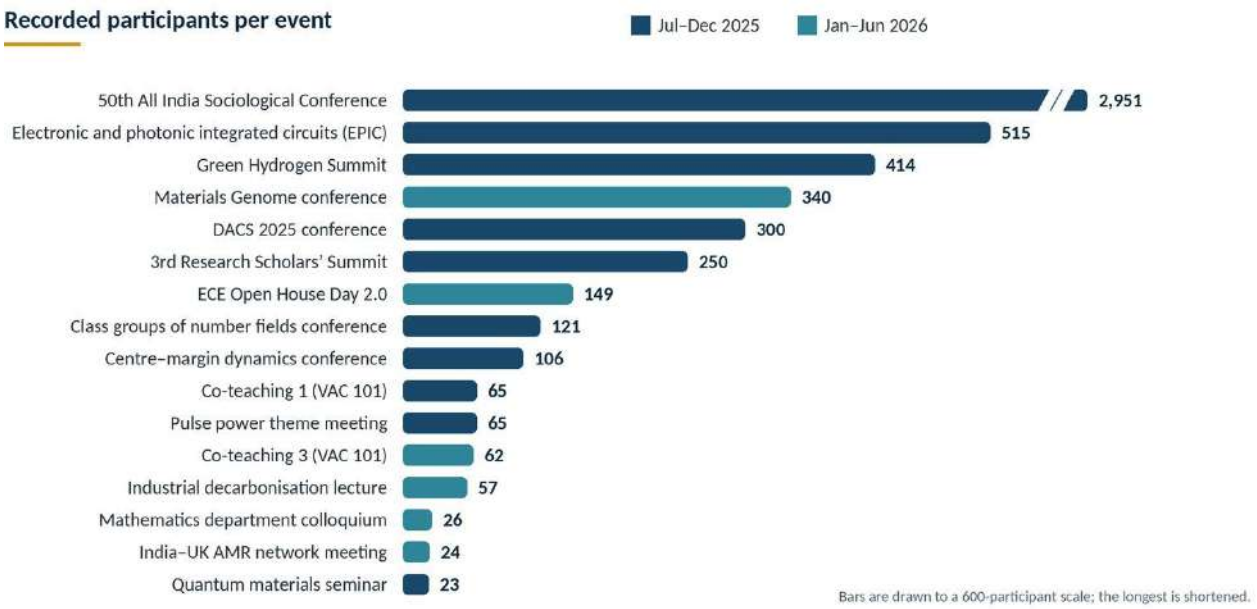
JANUARY–MARCH 2026

21–23 Jan	India–UK AMR network meeting
19–21 Feb	4th Materials Genome conference
8–30 Mar	Community and artisan projects begin

APRIL–JUNE 2026

5–6 Apr	Community activities continue
6 Apr–2 May	Co-teaching 3 (VAC 101)
13 Apr	Industrial decarbonisation lecture
22 Apr	ECE Open House Day 2.0
4 Jun	Mathematics department colloquium

PARTICIPATION AT A GLANCE

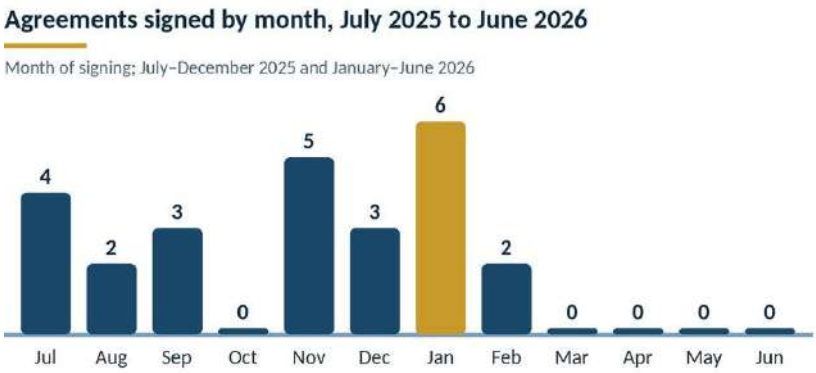


Reading the chart: Attendance is shown for each event. The five-day faculty development programme on the SDGs, which has no attendance figure, is described in the education section.

FORMAL PARTNERSHIPS AND AGREEMENTS

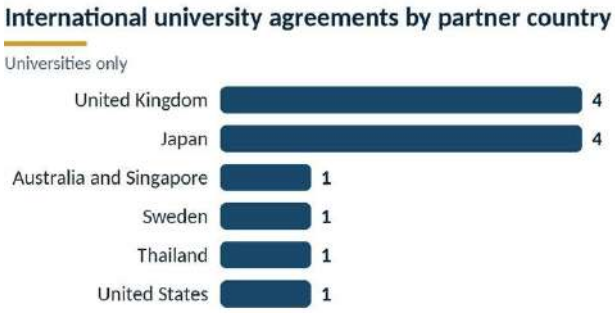
Agreements with universities, industry and public bodies

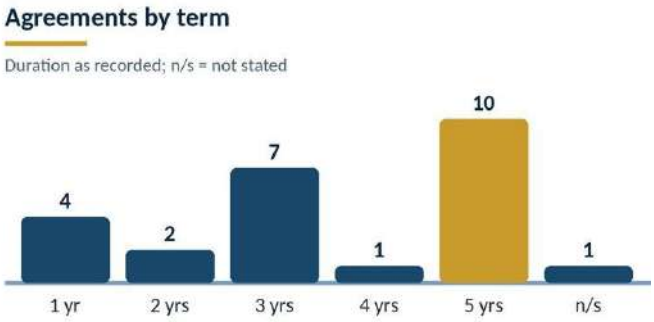
Between July 2025 and February 2026 SRM University-AP signed 25 agreements with universities, industry and other organisations, with the largest number in January 2026. No agreements were signed from March to June 2026.





Fourteen agreements are recorded as international. The university partners include Edinburgh Napier University, the University of Nottingham, the University of Reading and the University of East Anglia in the United Kingdom; the University of Toyama, the University of Fukui, Sojo University and Ryukoku University in Japan; James Cook University in Australia and Singapore; the Illinois Institute of Technology; Naresuan University in Thailand; and the University of Skövde in Sweden. Two international industry partners, SAP SE and Callus, support research, training and internships.



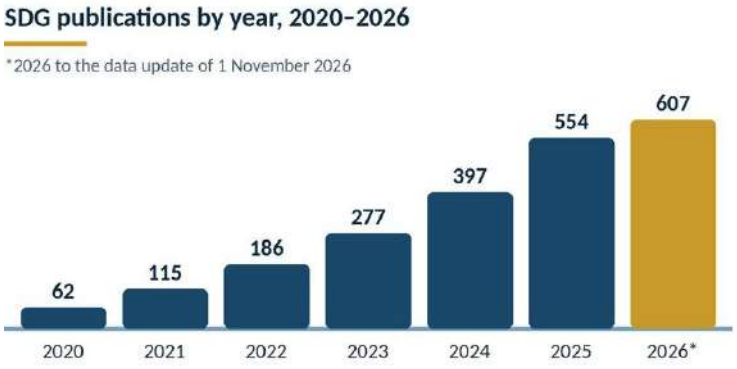


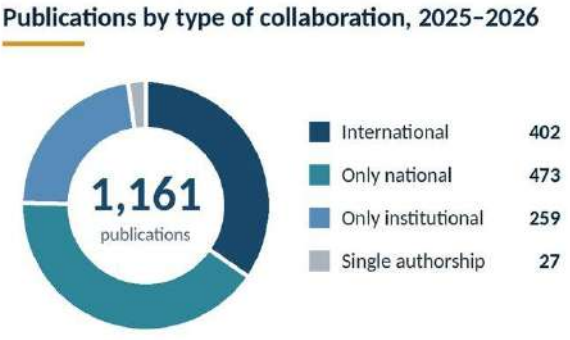
Most agreements provide for student and faculty exchange, joint research, short-term visits and courses, and conferences or webinars. Others are more specific: a one-year collaborative project with the Institute of Marine Research in Norway on marine health, research and training agreements with SAP SE, JK Srivastava HYNFRA and T.I.M.E, a research collaboration with an individual investor, and agreements with SV University in Tirupati and the Sri Vishnu Educational Society for faculty and student exchange, curriculum development and joint research. Agreements of this kind widen the set of partners with whom the University works on the Goals, in line with Targets 17.16 and 17.17.

COLLABORATION FOR SUSTAINABLE RESEARCH

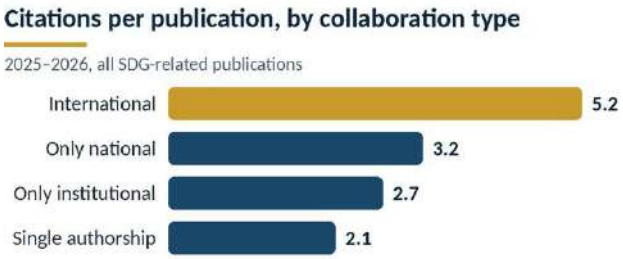
Research as partnership

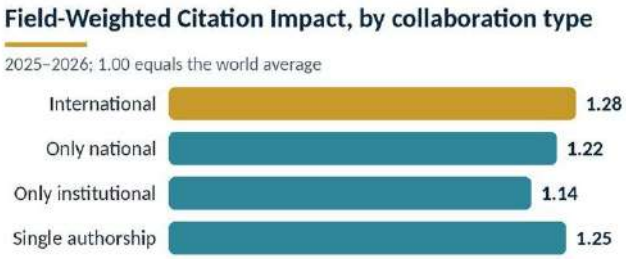
Research is the University's most visible form of partnership. Publications on the Sustainable Development Goals have grown every year, from 62 in 2020 to 554 in 2025, and 607 more had been counted for 2026 by 1 November 2026. The charts below state the period of each measure.





Collaboration across institutions is the norm. Papers written with international co-authors were the most frequently cited, and their citation impact is above the world average of 1.00. The international share of publications rose slightly, from 34.3% in 2025 to 34.9% in 2026.

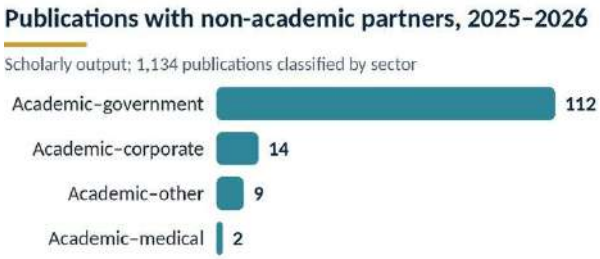


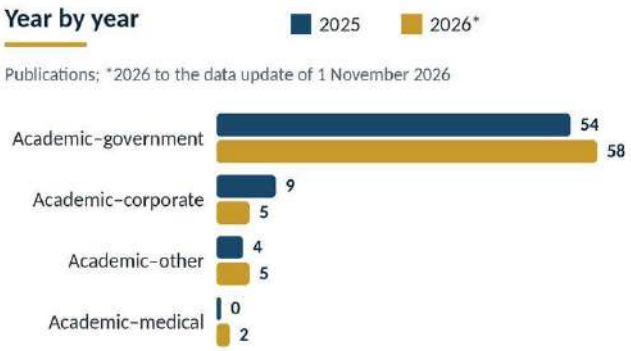


Beyond the university sector

Researchers also write with government, industry and healthcare partners. Government laboratories and agencies are the largest non-academic partner, with papers in this group cited more often than the University average and a Field-Weighted Citation Impact of 1.25. Academic–corporate papers are few, and their impact of 0.41 sits well below the average, which marks industry co-authorship as an area with room to grow.







CROSS-SECTORAL DIALOGUE AND ACADEMIC COLLABORATION

Summits, conferences and open houses

Between July 2025 and June 2026 the University hosted summits, international conferences, research meetings and an open house that brought together industry, government, scholars from other universities and the young research community. Each event below is described with its date, host department and outcomes.

- **Green Hydrogen Summit 2025**

Date: 18–19 July 2025 | Host: Department of Electronics and Communication Engineering | Participants: 414

The summit set out to open a cross-sector dialogue on India's National Hydrogen Mission, covering hydrogen production, storage and applications, research and commercialisation, and the policy frameworks and incentives that support hydrogen projects. It aimed to encourage partnerships and investment in green hydrogen and to raise awareness among stakeholders.

It produced three outcomes: the AP State Green Hydrogen Valley Declaration; recognition of SRM University-AP as the nodal agency for green hydrogen projects in Andhra Pradesh; and the formation, by the Government of Andhra Pradesh, of an Advisory Council to carry out clean-energy projects.

SDG 17 link: Targets 17.16 and 17.17, multi-stakeholder partnership among government, industry and the University.



Audience at the summit



Policy session on stage



Stage during the summit



Event poster

● International Conference on Data Analytics and Cyber Security (DACS 2025)

Date: 21–23 December 2025 | Host: Department of Computer Science and Engineering | Participants: 300

The eighth edition of DACS offered researchers, academics, industry professionals and students a global platform to share work in data analytics, artificial intelligence, machine learning, cloud computing and cybersecurity, and to strengthen academic–industry links.

The conference proceedings were published by Springer. The review process kept to rigorous standards, and international authors contributed to the accepted programme, as the figure below shows.

SDG 17 link: Targets 17.6 and 17.16, scientific cooperation and shared knowledge among researchers and industry.



Conference stage, 21 December



Presentation of awards, 23 December

DACS 2025: from submission to publication

249 papers	59 papers	10 papers	2 papers
Research submissions received	Accepted after review (23%) and presented	From international authors (17% of accepted)	Recognised as best papers; all 59 published by Springer

● 50th All India Sociological Conference (AISC) 2025

Date: 28–30 December 2025 | Host: Department of Sociology and Anthropology, with the Indian Sociological Society | Participants: 2,951

The largest gathering of the year took the theme “Mobilities and Inequalities: Shifting Contexts, Changing Paradigms”. It set out to examine how caste, class, gender, tribe, religion and region shape access to mobility and resources, and to discuss migration, labour mobility, digital mobilities and environmental displacement in India and abroad.

The conference was expected to generate critical discussion and an interdisciplinary platform for scholars, researchers and students, to encourage collaborative research networks, and to promote dialogue between academia and policy practitioners.

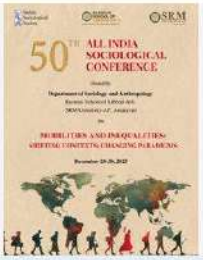
SDG 17 link: Targets 17.6 and 17.17, exchange of scholarship and dialogue between academia and policy practitioners.



Delegates in the hall



Inaugural session on stage



Conference poster

● 3rd Research Scholars' Summit

Date: 10–11 October 2025 | Host: Department of Civil Engineering | Participants: 250

The summit followed the motto "Inspire, Ignite, Innovate", and aimed to bring young researchers together to share original work, build connections and develop a research-driven culture.

Participation came from 10 universities across India, with 280 abstract submissions across five thematic areas: engineering and technology; medicine, life sciences, agriculture and fisheries; management, social sciences and humanities; applied sciences, including computational physics; and society. Presentations and discussions fostered multidisciplinary collaboration and societal impact.

SDG 17 link: Targets 17.6 and 17.16, collaboration among young researchers from many institutions.



Panel discussion at the summit



Summit brochure

● 2nd International Conference on Electronic and Photonic Integrated Circuits (EPIC 2025)

Date: 6–8 November 2025 | Host: Department of Electronics and Communication Engineering | Participants: 515

EPIC 2025 offered a common platform for researchers, academics, students and industry professionals to share advances in electronic and photonic integrated circuits and to bridge academia and industry.

The programme included keynote, plenary and invited talks by eminent experts, academia–industry discussion on collaborative research and technology transfer, and opportunities for young researchers to present work, receive feedback and build professional networks.

SDG 17 link: Targets 17.6 and 17.16, technology cooperation between universities and industry.



Session in progress



Speakers and delegates



Participants after the conference



Conference brochure

● International Conference on Class Groups of Number Fields and Related Topics (ICCGNFRT 2025)

Date: 6–10 October 2025 | Host: Department of Mathematics | Participants: 121

The eighth edition of this conference attracted more than 100 participants, with speakers mostly from the United States, the United Kingdom, France, the Philippines, Canada, Hong Kong, China, Hungary, Japan and the Czech Republic, and a few from India. It served experts, early-career researchers and doctoral scholars in number theory.

The conference offered a forum for exchanging current results and techniques, links between the conference theme, arithmetic geometry and computational methods, mentorship for young mathematicians, and several new joint research initiatives between Indian and international researchers.

SDG 17 link: Targets 17.6 and 17.16, international research collaboration in mathematics.



Delegates, 9 October



Lecture hall



Conference group photograph



Conference poster

● 4th International Conference on Materials Genome (ICMG IV)

Date: 19–21 February 2026 | Host: Office of the Dean Research (CIDR), led by Prof. Ranjit Thapa | Participants: 340

Held under the theme of the Asian Consortium on Computational Materials Science, the conference was organised in association with Virginia Commonwealth University, Flinders University, the National University of Singapore, National Tsing Hua University, JNCASR, IIT Guwahati, C-MET Pune and CSIR-IICT Hyderabad.

It featured three keynote lectures, 80 invited oral presentations and 96 poster presentations on magnetism, catalysis, energy storage and artificial-intelligence-enabled discovery of quantum materials. It brought theoretical, experimental and industrial researchers together, leading to new collaborations and interdisciplinary initiatives.

SDG 17 link: Targets 17.6 and 17.16, a multi-institution consortium advancing shared computational research.



Participants at the conference



Conference programme

● India–UK Antimicrobial Resistance (AMR) Network Meeting

Date: 21–23 January 2026 | Host: Department of Biological Sciences | Participants: 24

The meeting aimed to strengthen research partnership between India and the United Kingdom on antimicrobial resistance, to review challenges in clinical and environmental settings, and to promote One Health approaches, capacity building and joint strategies for policy.

Outcomes include stronger research collaboration between Indian and UK institutions, identification of potential joint projects, funding opportunities and collaborative publications, and the establishment of networks for continuing cooperation.

SDG 17 link: Targets 17.6 and 17.16, bilateral research partnership on a shared global health challenge.



Meeting in session, 21 January



Discussion, 22 January



Presentation, 22 January

● ECE Open House Day 2.0

Date: 22 April 2026 | Host: Department of Electronics and Communication Engineering | Participants: 149

The second edition showcased more than 100 student projects, including faculty-led start-ups, for evaluation by industry experts and academics, and offered an open platform for interaction between innovators and industry professionals.

Outcomes included stronger industry–academia interaction, encouragement of innovation and entrepreneurship, and experiential learning for students.

SDG 17 link: Targets 17.16 and 17.17, partnership between academia and industry.



Project demonstration



Evaluation of projects



Event flyer

Further research dialogues

● One-day theme meeting on Pulse Power and Electron Beam Applications

22 November 2025 · Department of Electrical and Electronics Engineering · 65 participants

Technical talks and discussion to identify research gaps and collaboration possibilities in pulse power and electron-beam applications. Outcomes included the submission of a project proposal in this area towards Viksit Bharat.

● Breaking Barriers: Reimagining Centre–Margin Dynamics

17–18 December 2025 · Department of Literature and Languages · 106 participants

An interdisciplinary conference on marginalisation, epistemic decolonisation, digital hierarchies, migration, and the documentation and digital revitalisation of marginalised languages. It brought rich scholarly exchange and future scope for research.

● Research seminar: Emergent Phenomena in Quantum Materials

24 September 2025 · Department of Physics · 23 participants

A visiting experimentalist spoke on the microscopic understanding of complex magnetism to research scholars and faculty, and held an interactive session with undergraduate students as part of the department's differential learning initiative.

● Department colloquium with a visiting professor from Tokyo

4 June 2026 · Department of Mathematics · 26 participants

Two research talks on automorphic forms and prime numbers by Professor Aoki. It opened possible collaboration with Gakushuin University, Tokyo, including a fellowship route for faculty and a possible postdoctoral fellowship for one scholar.

EDUCATION AND CAPACITY BUILDING

Partnership through what students learn

Partnership is also built through what faculty and students learn. During the year the Department of Biological Sciences trained faculty to embed the SDGs in their courses, and the Department of Environmental Science and Engineering brought the Goals to students through co-taught sessions and an expert lecture.

● Five-Day FDP on Embedding SDGs in Higher Education Curricula

Date: 18–22 August 2025 | Host: Department of Biological Sciences | Mode: Online

The programme set out to make faculty aware of the Goals and their global relevance, to explore how SDG principles and circular economy ideas can be embedded in curricula, and to build educators' capacity in outcome-based education and sustainable pedagogy. It also looked at institutional strategies through projects, research and collaboration among universities, NGOs, government bodies and industry.

The intended outcomes are faculty who understand all 17 SDGs, who can map the Goals to course outcomes and design mini projects on local sustainability issues, and who are motivated to form international partnerships and seek funding under SDG 17.

SDG 17 link: Targets 17.9 and 17.16, capacity building for educators and partnerships among universities, NGOs, government and industry.



Programme poster



Online session on the SDGs



Circular economy and the SDGs

● Co-teaching 1 (VAC 101)

26 November – 5 December 2025 · Environmental Science and Engineering · 65 students

A co-taught session on the role of the SDGs in achieving climate targets. Students came to understand the SDGs and the metrics and indicators used to evaluate them.

● Co-teaching 3 (VAC 101)

6 April – 2 May 2026 · Environmental Science and Engineering · 62 students

A co-taught session on the role of the SDGs in achieving sustainability. Students understood the need to achieve the different goals and the status of India in doing so.

● Guest Lecture: Industrial Decarbonisation from GHG Accounting to Net Zero Roadmap

Date: 13 April 2026 | Host: Department of Environmental Science and Engineering | Participants: 57

The lecture in the Guest Expert Lecture Series was given by Dr Lovelyn Theresaa Innocent, Head of Projects for Energy, Environment and Climate Change at an industry body, and aimed to give participants practical insight into climate action, policy frameworks and industry-driven sustainability solutions.

The session was expected to benefit students, researchers and faculty interested in environmental sustainability, climate change mitigation and energy systems.

SDG 17 link: Targets 17.6 and 17.17, knowledge exchange between industry practice and the University.



Lecture poster



Lecture audience



Speaker and participants

COMMUNITY OUTREACH AND STUDENT SERVICE

Taking learning and service beyond the campus

In March and April 2026 MBA students of the Paari School of Business carried out 14 community activities as part of their Samaj Seva course, guided by faculty mentors. The activities form three projects, each built on a partnership with a community organisation, a school or a local enterprise.

3
Student-led projects
Digital, health and environment

36
Children reached per session
At the children's home, four sessions

30
Saplings planted
At the primary school, with partners

25
Steel plates given
For hygienic mid-day meals

Community activity calendar, 8 March to 6 April 2026



Note on dates: Activities are plotted by their start dates the cartoon painting activity is recorded as running from 15 March to 15 May 2026.

● Digital Empowerment of Kondapalli Artisans

Partner: Jahnvi Kondapalli Wooden Toys, Kondapalli | Dates: 8–30 March 2026 | Team: Six MBA students, with faculty mentors

Kondapalli is home to a celebrated wooden-toy craft, yet the family-run enterprise at the centre of this project had no website, no payment gateway and no searchable catalogue, and relied on walk-in customers, local markets and middlemen.

Over five stages the student team surveyed the artisans' digital readiness, set up and optimised an Instagram presence, built a WhatsApp Business catalogue with automated replies, trained the artisans to handle customers and orders, and launched a mobile-friendly website with a Razorpay payment gateway.

The project ended with training and a handover of website credentials and digital operations to the artisans, so that they can run the channels themselves. The team bundled the domain with hosting, and the hosting and domain together cost ₹2,817.84. The project created a new direct-to-customer sales channel, reduced reliance on middlemen and left artisans able to manage their own digital operations.

SDG 17 link: Targets 17.8 and 17.17, enabling technology for artisans and a multi-stakeholder partnership among students, artisans and digital platforms. The project also relates to SDGs 1 and 8.





Student team with artisans at the shop, 8 March



Artisan at work in Kondapalli, 8 March



Home page of the website launched for the artisans



Product categories on the website

● Project Shiksha and Swachhata, Government Primary School, Neerukonda

Partners: Rotaract Club of Vijayawada Elite League, Rotary Midtown, Sreshta Dental Clinic and Neerukonda Panchayat | Dates: 8 March – 6 April 2026

This multi-part project brought hygiene, health and environmental learning to a government primary school. Students ran a Swachh Bharat cleanliness drive and interactive awareness sessions using skits, role play and handwashing demonstrations, held a dental health camp with a local clinic and Rotary volunteers, and took part in two plantation drives, including a Green Future Initiative tree drive.

Thirty saplings were planted within the school premises, ten by the student team and twenty with partner organisations. The project closed with 25 steel plates for hygienic mid-day meals and certificates of appreciation for teachers. A before-and-after questionnaire recorded improved awareness of hygiene, handwashing and oral health, and observable change in habits.

SDG 17 link: Target 17.17, partnership among a university, a school, service clubs, a dental clinic and the local panchayat.



Planting at the primary school



Sapling planted by student volunteers



Health camp at the school



Certificate of appreciation for school staff

● Child Development at Sharon Charitable Trust Children's Home

Partner: Sharon Charitable Trust Children's Home, Navuluru, Vijayawada | Dates: 8 March – 5 April 2026

A group of MBA students led four sessions for 36 children at the home, which gives shelter, care and educational support to orphaned and underprivileged children. A role-play session taught hygiene practices, a colour-based game contrasted good and bad habits, a cartoon-colouring activity encouraged creative expression, and a menstrual hygiene session addressed health and hygiene practices in a safe and open setting.

Recommendations for future sessions include regular follow-up programmes, more demonstrations and visual aids, and the involvement of healthcare professionals in future sessions.

SDG 17 link: Target 17.17, partnership between the University and a civil-society organisation. The sessions also relate to SDGs 3, 4 and 5.

CONCLUSION

Progress towards partnerships for the goals

SRM University-AP contributes to SDG 17 through several kinds of partnership. During Academic Year 2025–26 it signed 25 agreements with universities, industry and other organisations, more than half of them international, and its researchers continue to write about the Goals with partners at other institutions, in other countries and in government, and papers with international co-authors carry the most influence.

The University also convened its partners. Summits, conferences and research meetings brought government, industry and scholars from India and abroad to the campus, and they led to declarations, new collaborations, proposals and consortium links. Faculty development, co-teaching and an expert lecture carried the Goals into teaching, and three student-led projects took learning to a village craft community, a primary school and a children's home.

Together, these records show an institution that treats partnership as a working method for research, education and service.