SDG 1: No Poverty

End poverty in all its forms everywhere · Reporting period: 1 July 2024 – 30 June 2025

INTRODUCTION

Ending poverty through service, access and scholarship

Sustainable Development Goal 1 calls on the world to end poverty in all its forms everywhere. Poverty is not only a lack of income; it is limited access to education, essential goods, opportunity and a voice. Universities can respond in three ways: by opening the doors of learning to students from every background, by serving the communities around them, and by producing research that helps people move out of vulnerability.

SRM University-AP, at Neerukonda in Mangalagiri Mandal, Guntur District, Andhra Pradesh, approaches SDG 1 through these same three routes. Its National Service Scheme (NSS) unit takes student volunteers into nearby communities; its student body includes learners from socially challenged and economically backward backgrounds, supported by fee reimbursement from government, institutional and private sources; and its researchers publish on financial inclusion, poverty, smallholder livelihoods and inequality.

This section of the Sustainability Annual Report presents that contribution for the academic year **1 July 2024 – 30 June 2025**, using only the documented evidence available.



NSS volunteers and Peddakakani residents at the distribution.



Students interacting with community members, 28 Oct 2024.

HIGHLIGHTS

35 student participants in the NSS outreach

1 SDG 1-mapped event (Peddakakani cloth distribution)

9,063 students enrolled (institutional data sheet)

1,971 students with full tuition fee reimbursement

6 SDG 1-tagged publications, AY 2024–25 (Scopus)

THREE ROUTES TO IMPACT

COMMUNITY

Outreach & volunteer service

NSS student volunteers distributed donated clothes to underprivileged residents of Peddakakani on 28 October 2024.

ACCESS

Inclusive education

Student-profile data records learners from socially challenged and economically backward backgrounds, and students receiving full tuition fee reimbursement.

KNOWLEDGE

Research on poverty & inclusion

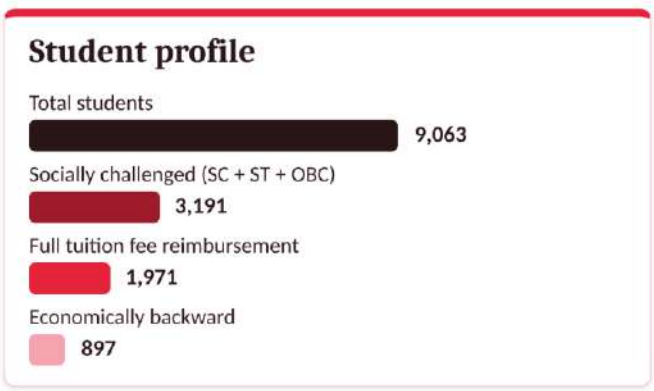
Six SDG 1-tagged publications fall within the year, spanning financial inclusion, poverty and growth, smallholder irrigation and inequality.

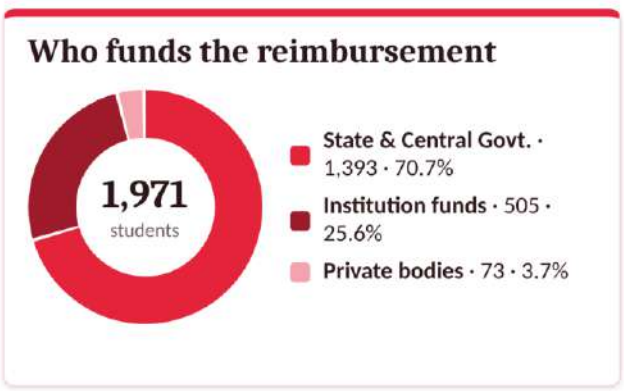
STUDENT ACCESS AND INCLUSION

Inclusive education: who the university serves

9,063
Total students enrolled

1,971
Students receiving full tuition fee reimbursement
21.7% of all students





ANALYSIS

- **1,971 of the 9,063 students** (21.7%) receive full tuition fee reimbursement.
- State and Central Government sources fund 1,393 students (70.7%), institution funds 505 (25.6%) and private bodies 73 (3.7%).
- Socially challenged students (SC + ST + OBC) number **3,191**, or 35.2% of enrolment; economically backward students number **897** (9.9%).

Sources: institutional data sheet and student table, academic year 2024–25.

EVENTS AND INITIATIVES

Cloth distribution in Peddakakani

The NSS Unit of SRM University-AP took a meaningful initiative to support the underprivileged in the Peddakakani area, near Guntur District, by distributing donated clothes. The initiative addressed a fundamental need – clothing – which many residents, particularly those from low-income backgrounds, often struggle to afford.

The event report describes the effort as a direct contribution to improving the quality of life of vulnerable groups, especially children, elderly people and women most affected by poverty.

Event 1 – NSS Volunteer Service: Cloth Distribution in Peddakakani near Guntur District

28 Oct 2024 · 35 participants

Date	28 October 2024
Venue	Peddakakani, near Guntur District, Andhra Pradesh
Host	NSS Unit, SRM University-AP
Participants	35 (all undergraduate students; attendance sheet with 35 signatures)
Activity	Distribution of donated clothes to underprivileged residents

KEY OUTCOMES

- **Direct relief.** Donated clothes reached underprivileged families in Peddakakani, easing some of the financial burden they face and allowing them to focus on education, healthcare and livelihood.
- **Dignity and hope.** The distribution brought a sense of relief and hope to people who may have been overlooked by conventional social services.

- **Student engagement.** Students engaged with the welfare of their surrounding community, strengthening ties between the university and residents and building empathy and social responsibility.

> **“NOT ME BUT YOU”**
>
> The National Service Scheme motto, as printed on the banner used at the Peddakakani outreach.

EVENTS AND INITIATIVES · GALLERY

Cloth Distribution, Peddakakani, 28 October 2024



Cloth Distribution – volunteers and residents beneath the NSS banner



Cloth Distribution – students assisting community members



Cloth Distribution – distribution under the shelter



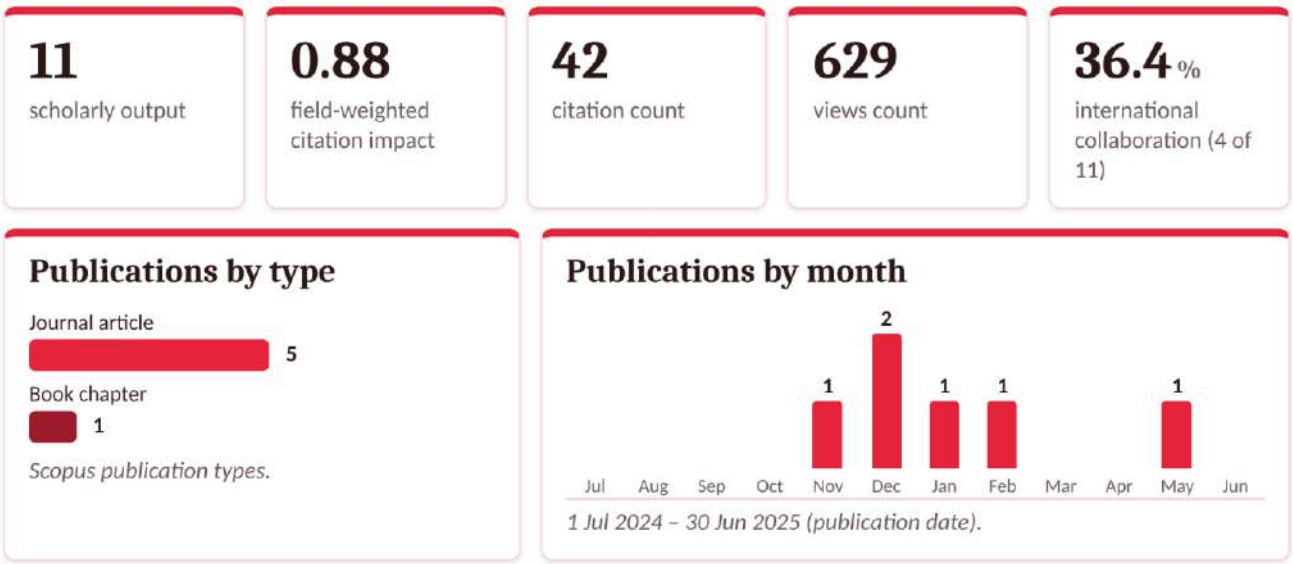
Cloth Distribution – NSS banner, “Not Me But You”

RESEARCH AND PUBLICATIONS

SDG 1 research output, 2024–2025

Scopus classifies **six publications** by SRM University-AP authors under SDG 1 with publication dates inside the reporting year. They address financial inclusion, the links between growth and poverty, smallholder livelihoods, gender empowerment and inequality. Of the six, five are journal articles and one is a book chapter (Scopus publication types).

SCIVAL: ACTIVITY OF SRM UNIVERSITY-AP WITHIN SDG 1: NO POVERTY (CALENDAR WINDOW 2024–2025)



TOP KEYPHRASES (BY RELEVANCE)

Top five keyphrases across the 11 SDG 1 publications in the SciVal 2024–2025 window, ranked by relevance:

Financial Inclusion	Sustainable Development Goals	Sustainable Development	Commercial Bank	Physics

Source: Scopus / SciVal.

RESEARCH AND PUBLICATIONS

SDG 1 publications in the reporting year

The six SDG 1-tagged publications dated 1 July 2024 – 30 June 2025 are listed below. Metrics are as exported from Scopus (CiteScore with percentile; FWCI = Field-Weighted Citation Impact; “n/a” = not available).

#	Title and authors	Date / type	CiteScore / percentile	FWCI	DOI
1	**Mobile banking services and financial inclusion among customers of commercial banks: Evidence from an emerging economy** Saeed, M.M.; Donkoh, E.	Dec 2024 Article	5.5 / 12	1.30	10.1002/bsd2.70035
2	**Accounting for the interconnectedness of globalization, growth, and poverty towards achieving sustainable development** Sodiq Olaide, B.; Manzoor Hassan, M.	Dec 2024 Article	6.6 / 7	1.62	10.1007/s11135-024-01908-8
3	**From Resist to Privilege: Rising Psychological Empowerment and Gender Equality for Poverty Alleviation** Dhamodharan, M.; Sunaina, K.	22 Nov 2024 Chapter	n/a	0.00	10.1108/978-1-83753-292-620241010
4	**Linkages between financial development and the growth dynamics of the manufacturing industry: empirical evidence from India** Sahoo, M.; Mohanty, S.P.; Sahu, P.	Jan 2025 Article	7.0 / 15	0.55	10.1108/JEAS-08-2024-0293
5	**Unlocking the potential of small-scale irrigation for small farmers in Northwestern Ethiopia** Gebrehiwet, D.L.; Pandey, G.	27 Feb 2025 Article	7.1 / 10	2.46	10.1108/JADEE-05-2024-0157
6	**Does Excellence Correspond to Universal Inequality Level?** Biswas, S.; Chakrabarti, B.K.; Ghosh, A.; Ghosh, S.; Józsa, M.; Néda, Z.	May 2025 Article	4.9 / 12	0.56	10.3390/e27050495

CONCLUSION

Progress towards ending poverty

In academic year 2024–25, SRM University-AP advanced SDG 1 through service, access and scholarship. The documented record shows:

The NSS Cloth Distribution shows the university's students acting on the ideal of "Not Me But You", bringing practical support and dignity to underprivileged families. The student-profile data show a student body in which socially challenged and economically backward learners are well represented and in which fee reimbursement from government, institutional and private sources supports access to education. University researchers contributed to the evidence on financial inclusion, poverty, smallholder livelihoods and inequality.

The next step is to widen the evidence base: recording beneficiary numbers at each outreach, documenting all SDG 1 events and programmes with annual figures, and capturing prior-year baselines so that progress can be measured year on year.

SDG 2: Zero Hunger

Safe food, responsible food waste management, rural enterprise, research and startups

INTRODUCTION

Nourishing the campus and the community

SDG 2 calls for an end to hunger, food security and improved nutrition, and the promotion of sustainable agriculture. At SRM University-AP, this goal is pursued through four connected areas of work: safe and nutritious campus dining with responsible management of food waste; training for rural women entrepreneurs in the food-processing sector; research on agriculture, food systems and nutrition; and startups working in food production and agri-technology.

The University provides a dedicated mess facility in every hostel, serving nutritious and hygienic meals throughout the day. Students are offered a balanced menu for breakfast, lunch and dinner, catering to diverse tastes and dietary preferences, in a clean and safe environment that maintains high standards of quality and hygiene.

The campus is certified as an **Eat Right Campus** under guidelines established by the Food Safety and Standards Authority of India (FSSAI), for the period 27 December 2023 to 26 December 2025.



FSSAI "Eat Right Campus" certification, SRM University-AP (27 Dec 2023 – 26 Dec 2025).

HIGHLIGHTS

131,285 kg total food waste generated on campus

21,050 kg food waste converted into biogas energy

2 food-sector training events (55 and 57 participants)

49 SDG 2 publications, 2024–2025 (Scopus)

2 startups in agriculture and food production

FOOD WASTE DATA AND ANALYSIS

Measuring and processing campus food waste

131,285 kg
Total food waste generated in campus

21,050 kg
Volume of food waste converted into biogas energy
16.0% of the total generated





ANALYSIS

- Of the **7,500 kg** of food waste generated each month, **2,270 kg (30.3%)** is processed into biogas and **541 kg (7.2%)** is composted: **2,811 kg (37.5%)** in total.
- Biogas is the larger route, handling about **4.2 times** the volume that is composted.
- The remaining **4,689 kg (62.5%)** is not covered by the composting or biogas figures reported in the data (monthly generated minus composted minus biogas).
- **5 food waste collection points** are available on campus.

CAMPUS FOOD-SERVICE INFRASTRUCTURE

3 Mess halls	**2,042** Mess seating capacity	**1** Food court	**6** Canteens
4 Night canteens	**4** Cafeterias	**12** Refreshment areas	**5** Food waste collection points

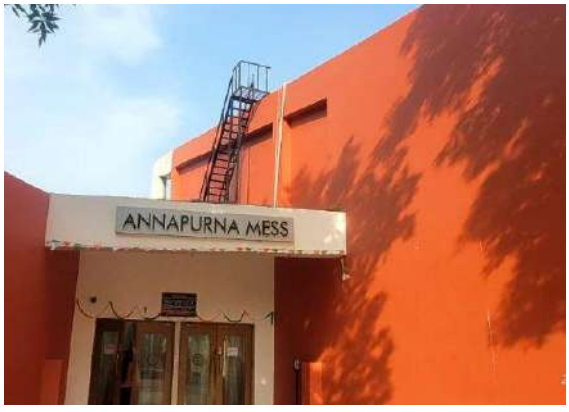
FOOD WASTE DATA AND ANALYSIS · CANTEEN AREA

Dining facilities on campus

SRM University – AP provides a dedicated mess facility in every hostel, serving nutritious and hygienic meals throughout the day. Students are offered a balanced menu for breakfast, lunch, and dinner, catering to diverse tastes and dietary preferences.

The mess ensures food is prepared and served in a clean and safe environment, maintaining high standards of quality and hygiene. With spacious dining areas and a focus on healthy eating, the mess aims to provide a comfortable and satisfying dining experience for all residents.

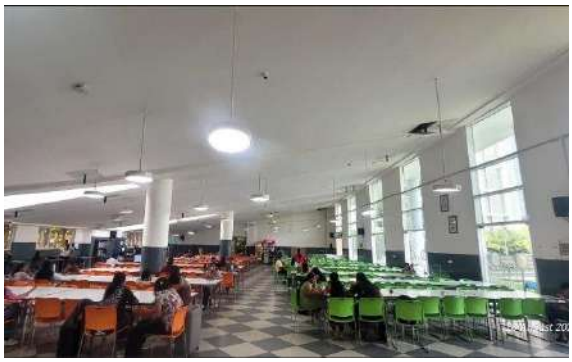
3 mess halls · **2,042** seating capacity in mess



Annapurna Mess entrance.



Dining hall.



Mess dining area.



Food counter and seating area.



Dining area.



Dining area.

EVENTS AND INITIATIVES

Training rural women entrepreneurs in food processing

Two training sessions on quality and compliance for the food-processing sector were hosted by the Directorate of Entrepreneurship & Innovation (CSR ADITRI Team), aimed at rural women building micro-enterprises. Event photographs are geo-tagged.

Training Session – CSR ADITRI: Quality Analyst Training for the Food Processing Sector

9 Jan 2025 · Offline

55	48	7	0
total participants	external	staff	PhD / PG / UG

Time 9:30 am – 1:30 pm

Venue SRM AP, X Lab 303, Student Corner

Host Directorate of Entrepreneurship & Innovation, CSR ADITRI Team

Resource person Mr. MSV Phani Prakash, founder of Smart Food Lab (est. April 2021, Hyderabad)

KEY ACTIVITIES

- One-on-one interactions between the resource person and each entrepreneur on key aspects of the food industry
- Food safety standards and robust quality-control measures
- Hygiene and sanitation to ensure product integrity
- Labeling and packaging guidelines; testing and certification to build credibility
- Consumer trust and marketing impact, with strategies to help entrepreneurs scale their businesses



Event flyer





EVENTS AND INITIATIVES

Training rural women entrepreneurs in food processing

Training Session – CSR ADITRI: Quality Analyst Training for the Food Processing Sector

20–27 Feb 2025 · Online

57	47	10	0
total participants	external	staff	PhD / PG / UG

Time 9:30 am – 4:30 pm

Venue Online

Host Directorate of Entrepreneurship & Innovation, CSR ADITRI Team

Resource person Mr. MSV Phani Prakash, founder of Smart Food Lab (est. April 2021, Hyderabad)

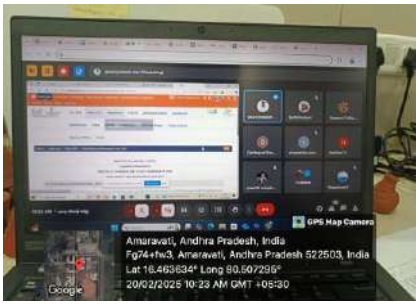
Objective To equip rural women with knowledge of the licences, regulations and procedures required to operate food-related businesses



Event flyer (Telugu): virtual training.

KEY ACTIVITIES

- Briefing on licences and procedures essential for running food-related ventures, including FSSAI certification, labeling requirements and compliance measures
- Sessions on FSSAI and product testing
- Afternoon one-on-one sessions with individual ventures





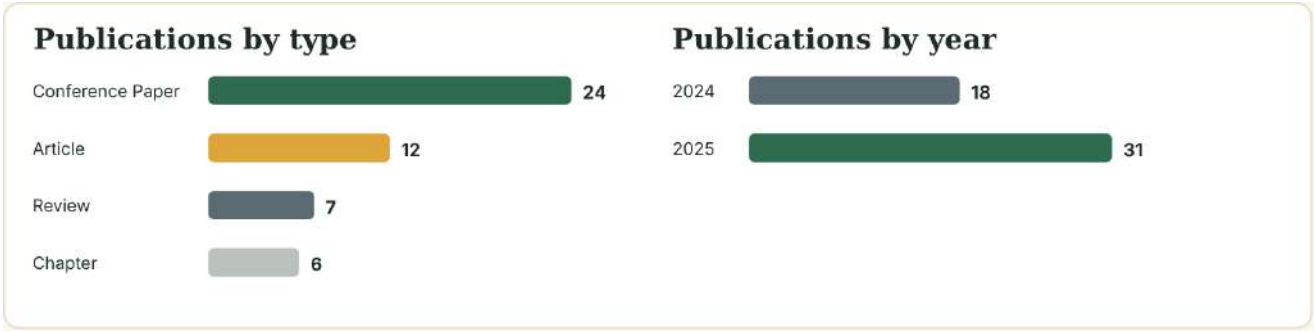


RESEARCH AND PUBLICATIONS

SDG 2 research output, 2024–2025

Scopus and SciVal classify **49 publications** by SRM University-AP (2024 to 2025) under SDG 2: Zero Hunger. Research spans precision agriculture, plant disease detection, food security, unmanned aerial vehicles, soil nutrients, food supply and water resources.

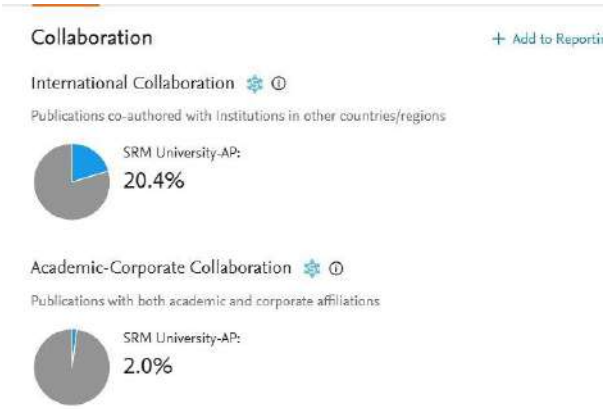
49	1.09	278	999	10	2.0%
scholarly output	field-weighted citation impact	citation count	views count	international collaboration (20.4%)	academic–corporate collaboration



SCIVAL: ACTIVITY OF SRM UNIVERSITY-AP WITHIN SDG 2: ZERO HUNGER (2025)



Performance summary, 2024–2025.



Top keyphrases (by relevance)

Precision Agriculture	Food Supply
Plant Disease Detection	Machine Learning
Food Security	Water Resources
Plant (Botany)	Development
Unmanned Aerial Vehicle	Deep Neural Network
Object Detection	Random Forest
Soil Nutrient	Deep Learning Method
Agricultural Machinery	Plants (Botany)

International and academic–corporate collaboration.

Source: Scopus / SciVal, all publication types, 2024–2025.

RESEARCH AND PUBLICATIONS

Selected SDG 2 publications

Twelve of the 49 publications are highlighted for direct relevance to food, nutrition, agriculture and sustainable food systems. Metrics are as exported from Scopus (CiteScore for the publication year; FWCI = Field-Weighted Citation Impact; "–" = not available).

#	Title and authors	Year / type	CiteScore	FWCI	DOI
1	**Biochar for ameliorating soil fertility and microbial diversity: From production to action of the black gold** Ighalo, J.O. et al. **[Soil health]**	2025 Review	7.4	8.13	10.1016/j.isci.2024.111524
2	**Leaf disease detection and classification in food crops with efficient feature dimensionality reduction** Syed, K. et al. **[Crop disease detection]**	2025 Article	4.8	1.61	10.1371/journal.pone.0328349
3	**Microalgae-based nutritional supplements: Sustainable applications for high-nutritional-value food production** Rajamanickam, R. et al. **[Nutrition]**	2025 Review	8.9	0.47	10.1016/j.procbio.2025.07.009
4	**Environmental impacts and effects on greenhouse gas emissions in shrimp feed production system for aquaculture – A case study in India** Ramesh, P. et al. **[Aquaculture]**	2024 Article	14.7	1.25	10.1016/j.envres.2023.117348
5	**Unlocking the potential of small-scale irrigation for small farmers in Northwestern Ethiopia** Gebrehiwet, D.L., Pandey, G. **[Irrigation]**	2025 Article	7.1	2.46	10.1108/JADEE-05-2024-0157
6	**Nanochitin: Green nanomaterial for sustainable applications in agriculture and environmental remediation** Manoj, N. et al. **[Agri-nanomaterials]**	2025 Review	18.8	0.45	10.1016/j.scitotenv.2025.178607
7	**Advances on characteristics and valorization of food waste towards the sustainable production of bio-methane and purification** Sethupathy, A. et al. **[Food waste]**	2024 Review	14.2	0.37	10.1016/j.fuel.2024.131388
8	**Forecasting Milk Production in India: Strategic Insights for Policymakers and Farmers** Pachava, V. et al. **[Dairy / policy]**	2025 Article	2.2	0.38	10.48165/IJEE.2025.61203
9	**Comparative Analysis of YOLOv11 and YOLOv12 for Automated Weed Detection in Precision Agriculture** Shaik, A.B. et al. **[Precision agriculture]**	2025 Conference Paper	–	9.15	10.1109/ICPCSN65854.2025.11036078
10	**Securing Agricultural Communications: Blockchain Integration in UAV Networks for Smart Farming** Peddibhotla, U. et al. **[Smart farming]**	2024 Conference Paper	–	3.81	10.1109/ICCWorkshops59551.2024.10615542
11	**Supply Chain Management for Sustainable Food Production Using the Analytic Hierarchy Process** Sravanthi, P.N., Meriga, K.K. **[Food supply chain]**	2025 Chapter	–	3.05	10.4018/979-8-3693-8789-4.ch003
12	**Addressing Nutrition Gaps: An In-depth Study of Child Undernutrition** Panchumarthi, L.Y. et al. **[Child nutrition]**	2024 Conference Paper	–	0	10.1109/OCIT65031.2024.00103

STARTUPS AND INNOVATION FOR SUSTAINABLE FOOD SYSTEMS

Incubated startups in agriculture and food production

Two startups supported through the University's entrepreneurship ecosystem work directly on food production and agriculture, one on sustainable poultry farming and one on drone-based crop and irrigation monitoring.

Greencrest Farms India Private Limited

Provides farm-based country chicken while promoting sustainable practices for better health and community growth.

ACTIVITIES

- Farm-based country chicken production
- Promotion of sustainable practices
- Focus on better health and community growth

Sector	Health monitoring device – poultry
Social impact focus	Sustainability
Founder	Mr. Chaithanya (student)
Legal entity	Pvt Ltd
Incorporated	15 January 2025
Incubation	21 Jan 2025 – 21 Jan 2026
Funding	Rs. 50,000 (Others), Directorate of Entrepreneurship
Patents	Filed: Nil · Granted: Nil
Tech transfer	No

Secenai Semiconductors & Test Solutions Private Limited

Develops autonomous drones for agriculture.

ACTIVITIES

- Crop monitoring
- Irrigation management
- Yield estimation
- Efficient monitoring

Sector	Drone technology
Social impact focus	Sustainability
Founder	Dr. Ramesh Vaddi (faculty)
Legal entity	Pvt Ltd
Incorporated	30 September 2024
Incubation	11 Mar 2025 – 11 Mar 2026
Funding	Rs. 5,00,000 (Grant), MeitY GENESIS
Revenue	No
Patents	Granted: Nil
Tech transfer	No

CONCLUSION

Progress towards zero hunger

SRM University-AP's contribution to SDG 2 combines everyday food services with enterprise support and research. A dedicated mess in every hostel and the FSSAI Eat Right Campus certification underpin safe, nutritious dining, while campus food waste is measured and part of it is processed into biogas (21,050 kg) and compost.

Beyond the campus, two CSR ADITRI training sessions reached 55 and 57 participants on food safety, licensing and quality for food businesses run by rural women. The University's research output on SDG 2 stands at 49 publications for 2024–2025, concentrated on precision agriculture, plant disease detection and food security, and two startups carry agricultural and food-production innovation towards practice.

SDG 3: Good Health and Well-being

On-campus health care, mental health and counselling, prevention, research and healthcare startups

INTRODUCTION

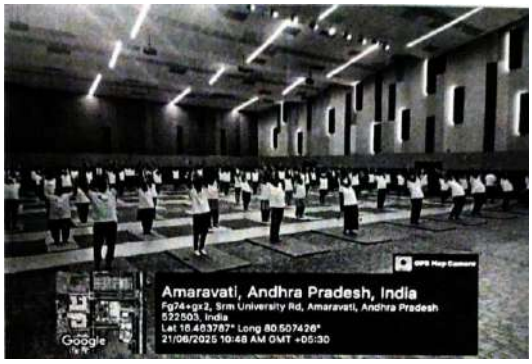
Health and well-being on a residential campus

Sustainable Development Goal 3 calls on institutions to help people live healthy lives and to promote well-being at every age. For a residential university community, that goal begins on campus: a doctor within reach at any hour, someone to talk to when stress builds, and a culture that makes exercise, rest and prevention part of everyday student life.

SRM University-AP addresses SDG 3 through four connected strands:

- **On-campus health care.** A 24×7 Health Centre, expanded in 2025 to an eight-bed facility with ambulance services and referral partnerships.
- **Mental health and counselling.** A Wellness Centre with confidential counselling, therapies and peer-support programmes, complemented by the student-run Wellness Club.
- **Prevention, awareness and service.** Health camps, awareness sessions, sports and yoga events, and outreach led by Student Affairs, the NSS Cell and the Directorate of Sports.
- **Research and innovation.** Health-related publications and healthcare startups incubated at the university.

This section draws on the university's event reports (July 2024 – June 2025), its Scopus-indexed publication records for 2024–2025, its startup incubation records, and the information published by its Health Centre and Wellness Centre.



International Day of Yoga 2025 – mass yoga session.



Beyond Boundaries – prize presentation.

HIGHLIGHTS

39 SDG 3 events and initiatives recorded

13,519 recorded participations (not unique individuals)

24×7 medical cover and ambulance service

215 SDG 3 publications, 2024–2025 (Scopus)

5 healthcare startups under incubation

SDG 3 DATA AND KEY HIGHLIGHTS

SDG 3 at a glance

39
SDG 3 events and initiatives recorded

13,519
Recorded participations (not unique individuals)

8
Beds in the expanded Health Centre (from 2)

24×7
Medical cover and ambulance service

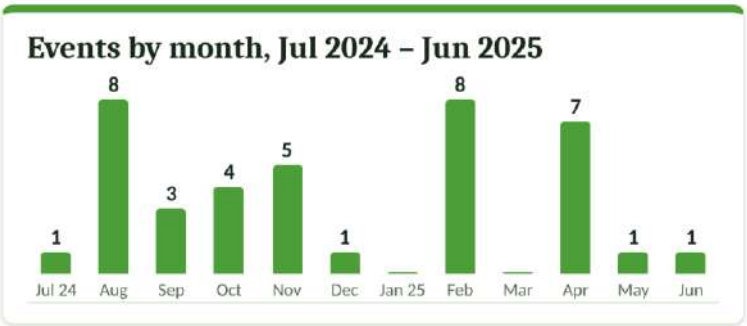
215
SDG 3 publications, 2024–2025 (Scopus)

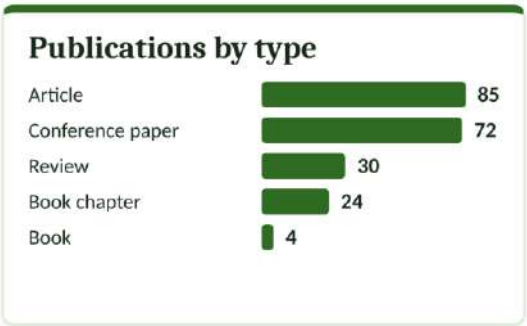
81
Publications with Field-Weighted Citation Impact above 1

5
Healthcare startups under incubation

₹6,00,000
Funding raised by three of those startups







KEY HIGHLIGHTS

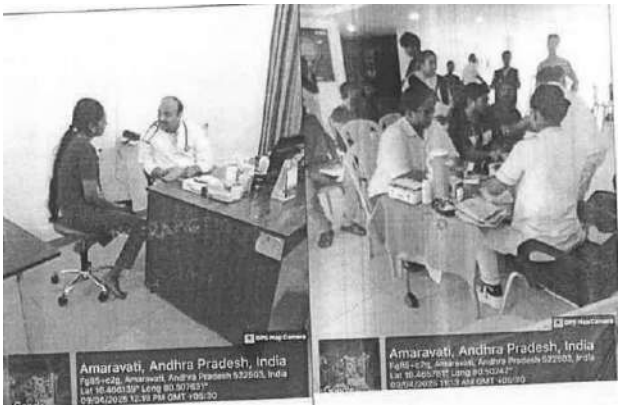
- **Reach.** Awareness sessions at the start of the academic year drew very large audiences: 2,670 (Spirituality and Bhagavad Gita), 1,505 (Sleep), 1,500 (Nutrition) and 1,210 (Dorm Diaries).
- **Preventive care.** Health camps covered cardiac screening (210 participants), eye care (419 at the camp and 224 at the lecture) and a blood donation camp (500 participants; over 400 units collected).
- **Mental health.** Eleven mental-health activities ran across the year, from a full-day suicide-prevention programme to a 135-participant stress-management workshop.
- **Active living.** 912 recorded participations in five sports, yoga and fitness events, including National Sports Day (464) and International Day of Yoga (137 on campus and about 95 in a nearby village).
- **Research.** 85 journal articles, 72 conference papers, 30 reviews, 24 book chapters and 4 books; 140 of 215 records list more than one institution.

Sources: SDG 3 Mapped Events workbook; Student Affairs, department and Directorate of Sports event reports; SciVal/Scopus publication export; startup incubation records.

Health Centre

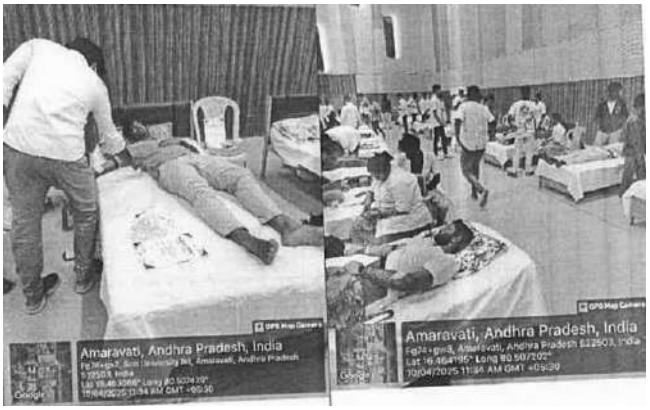
The Health Centre is the primary healthcare provider for students, faculty, staff and their dependents, with medical professionals on campus 24 hours a day, 7 days a week. Outpatient hours are 9 AM to 6 PM on university working days; emergency services run round the clock.

In November 2025 the centre was expanded from a two-bedded unit to an eight-bedded facility with modernised, semi-advanced diagnostic and treatment equipment, five full-time doctors (including a paediatrician), seven trained nursing staff and emergency-care personnel.



Cardiology Camp and Health Check-up, April 2025 – free screening for students, faculty and staff

- **Services.** Outpatient care, emergency services and emergency referral; oxygen and nebulisation; wound suturing; first-aid medicines, injections, emergency drugs and IV fluids; rabies vaccine and anti-snake venom; an in-house pharmacy, tele-ECG machine and autoclave; and two ambulances with oxygen support, available round the clock.
- **Training and education.** First-aid training for wardens, NSS students, security staff and interested faculty and staff; health education sessions, medical camps, webinars and wellness programmes.
- **Referral and partner network.** Diagnostic partners include Apollo Diagnostics, Durga Labs and Ramesh Labs (Mangalagiri). Advanced tests and specialist care are referred to Manipal Hospital or NRI Hospital, with university-arranged transport. An MoU with NRI Medical College and Hospital supports patient referrals, and an MoU with AIIMS Mangalagiri is in process. Blood donation camps are held with Red Cross Guntur and Red Cross Mangalagiri. All students are covered by health insurance, with cashless admission for the first 24 hours at partner hospitals.



Blood Donation Camp, April 2025 – organised with the NSS Cell

- **Planned health-awareness services.** Eye check-ups, dental camps, dermatology consultations, general health screenings and gynaecology camps; women's health sessions on PCOS, HPV vaccination and cervical and other cancers; specialist talks on gastrointestinal cancer prevention, lifestyle disorders and dermatology; and health camps for Classes 1–5 at the Kuragallu PHC school, planned with the Student Affairs Office.

Wellness Centre

The Wellness Centre supports student, faculty and staff mental health through free, confidential counselling by a team of university counsellors. Sessions are by appointment (walk-ins are accommodated depending on emergencies and counsellor availability), last about 45 minutes, and are confidential unless there is a risk of harm to oneself or others.

Counsellors practise Cognitive Behavioural Therapy (CBT), Rational Emotive Behaviour Therapy (REBT), Solution-Focused Therapy (SFT) and other evidence-based approaches and refer to external specialists when appropriate.



Wellness Centre counsellors' interactive session for school students

- **Peer Support Circles.** Student-led listening and well-being groups.
- **Mental Health Week.** Campus-wide awareness campaigns and screenings, alongside workshops on resilience, stress management and well-being skills.
- **Spaces.** Private counselling rooms, group therapy spaces, meditation and mindfulness rooms, relaxation lounges and a resource library.



Hope in Action – suicide prevention programme with the Wellness Centre

- **Affirmation Station (Mirror Initiative).** Mirrors decorated with affirmations to support self-esteem.



StressBusters: DIY Calm Down Kit Workshop (Wellness Club)

Mental health and counselling

39 SDG 3 events were recorded between July 2024 and June 2025 across six themes. Events with photographs are described below; those without are listed in the summary tables.

14 SEP 2024

Hope in Action: Suicide Prevention and Awareness Programme

A full-day programme (10 AM–5 PM) led by university counsellors. Information booths shared support-system and coping resources; the Wall of Hope and Emotional Wheel invited participants to reflect; an Art Therapy workshop taught grounding techniques; poetry and digital-art competitions explored hope and resilience, followed by a valedictory with prizes.

38 undergraduate participants · expenditure ₹3,328.



Wall of Hope activity



Programme session

13 NOV 2024

StressBusters: DIY Calm Down Kit Workshop

Hands-on workshop (10 AM–4 PM) where students assembled personalised calm-down kits using items that engage all five senses, learning grounding and relaxation techniques. Feedback noted that attendees felt better prepared to manage everyday stress.

135 participants · expenditure ₹3,326.



Kit-making stations



Participants at work

9 OCT 2024

Building Hope and Resilience

Interactive psychology session (2–4 PM) using group games to build understanding of behaviour and mental well-being and to strengthen collaboration among students.

21 undergraduate participants.



Group activity



Participants

30 OCT 2024

Mindful Gratitude

Weekly reflective session featuring a gratitude discussion, gratitude chits and letters to friends, family or mentors, and a “Walk of Senses” mindfulness exercise.

5 participants.



Letter-writing



Reflection circle

20 SEP 2024

Dreamscapes: Designing Your Ultimate Uni Experience

Evening wellness session on visualisation and goal setting, built around a Vision Board Making Competition judged by the university counsellor.

5 undergraduate participants.



Vision-board making



Board creation

28 AUG 2024

Wellness Club Introduction (2024 batch)

Orientation for first-year students using “Mystery Item” and “Search Hidden Object” activities to encourage teamwork, communication and stress management.

13 participants.



Orientation activity

5 APR 2025

Introducing the Wellness Centre and University Counsellors

Interactive session (3–4:30 PM) by the university counsellors on time management, the Pomodoro technique, goal setting and the Ikigai framework for school-level students.

50 participants.



Interactive session

FEB 2025

Clinical Psychology and its Scope in India

Virtual guest talk by Dr Barre Vijay Prasad (AIIMS New Delhi) introducing students to clinical psychology training pathways, RCI licensure and career scope.

50 participants · online.



Virtual guest talk

ALSO RECORDED IN THIS THEME

Date	Event	Participation
16 Oct 2024	Tradition Meets Modernity – Wellness Club	4 participants

Health awareness and education

20 AUG 2024

Awareness Session on Sleep

Session by sleep specialist Dr Ramadevi Gourineni at the APJ Abdul Kalam Auditorium on the causes of poor sleep (late nights, caffeine and energy drinks, screen addiction, anxiety) and its effects on physical health, memory, concentration and mood.

1,505 attendees (1,500 UG).



Awareness talk



Audience

12 AUG 2024

Pledge Against Drug Abuse

Campus-wide oath-taking at the APJ Abdul Kalam Auditorium, in line with UGC guidelines, committing students to a drug-free lifestyle and to supporting peers.

1,000 undergraduate participants.



Oath-taking ceremony

22 AUG 2024

Dorm Diaries: Hostel Life and Warden Introduction

Introductory session for first-year students on hostel facilities, rules and regulations, and a formal introduction to their hostel wardens.

1,210 attendees.



Introductory session



First-year audience

13 NOV 2024

Awareness Session on Road Safety

Session hosted at the Deputy Transport Commissioner's office, Guntur, by Motor Vehicle Inspector Ms G. Sowjanya on traffic rules, seat belts, distracted driving and safe pedestrian behaviour.

40 participants.



Session at the RTO office



Students attending

ALSO RECORDED IN THIS THEME

Date	Event	Participation
20 Aug 2024	Talk on Healthy Nutrients and Diet – Directorate of Student Affairs	1,500 participants
23 Aug 2024	Session on Spirituality and the Bhagavad Gita – Directorate of Student Affairs	2,670 participants
1 Jul 2024	Doctors' Day – Directorate of Student Affairs	13 participants
19 Feb 2025	Eye Care Guest Lecture – NSS Cell	224 participants

EVENTS AND INITIATIVES · HEALTH CAMPS AND COMMUNITY SERVICE

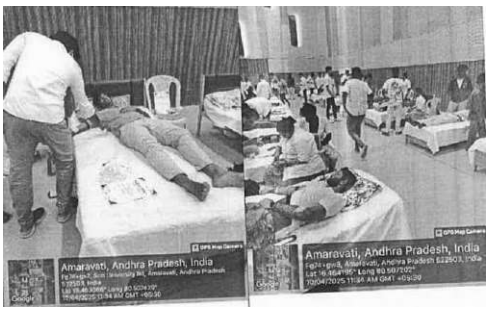
Health camps and community service

10 APR 2025

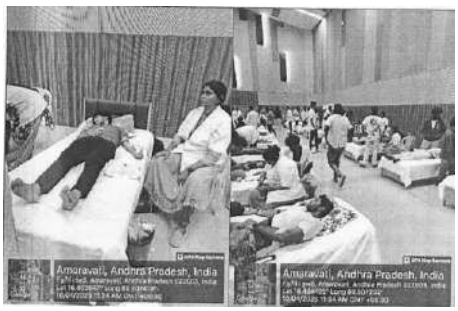
Blood Donation Camp

Day-long camp (9 AM–5 PM) promoting voluntary blood donation. The report records over 400 units of blood collected for local hospitals and blood banks, with many first-time donors taking part.

500 participants · 400+ units collected.



Donation in progress



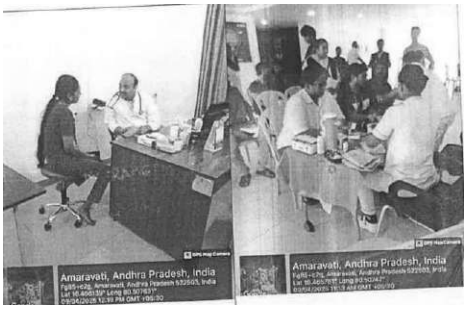
Donation hall

9 APR 2025

Cardiology Camp and Health Check-up

Free screening camp (9 AM–5 PM) for students, faculty and staff offering blood sugar, blood pressure, ECG and echocardiogram checks, with referral of abnormal findings for follow-up.

210 participants.



Screening in progress



Health check-up

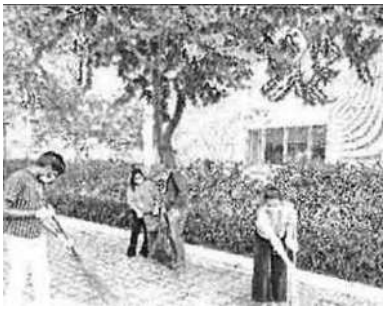
12 FEB 2025

Campus Clean Drive

Two-hour cleaning drive (2–4 PM) to spread awareness of cleanliness and public hygiene and to improve the cleanliness of campus premises.

69 undergraduate volunteers.


Volunteers on campus


Cleaning drive

ALSO RECORDED IN THIS THEME

Date	Event	Participation
19 Feb 2025	Vision Care Eye Camp – NSS Cell	419 participants

EVENTS AND INITIATIVES · SPORTS, YOGA AND FITNESS

Sports, yoga and fitness

29 AUG 2024

National Sports Day

Intramural celebration honouring Major Dhyan Chand with athletics, fitness challenges, kabaddi, tug of war and table tennis.

464 participants (360 men, 104 women).





Track and field

Participants with event banner

17 SEP 2024

Traditional Yoga Competition

The first Traditional Yoga event organised by the Directorate of Sports, promoting physical, mental and spiritual well-being through authentic yogic practice.

60 participants (32 men, 28 women).



Asana demonstration



Winners and participants

21 JUN 2025

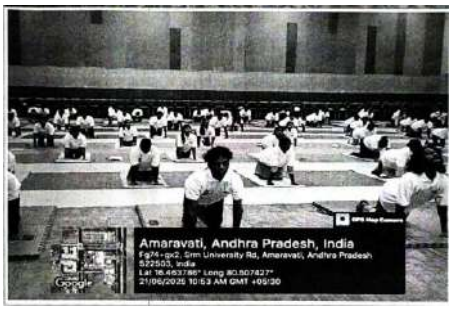
International Day of Yoga 2025

Celebrated under the theme “Yoga for One Earth, One Health” at the APJ Abdul Kalam Auditorium with a group demonstration and a mass session of Pranayama, micro-yoga, asanas and Surya Namaskar. An early-morning session in Neerukonda village reached about 95 community participants.

137 on campus (83 men, 54 women) · ~95 in village.



Mass yoga session



Group practice

16 APR 2025

Beyond Boundaries: Outdoor Sports Club Championship

Intramural championship across volleyball (5 teams), football (2), kabaddi (5), basketball (3) and athletics (9 entries) to promote fitness, teamwork and sportsmanship.

151 participants.



Prize presentation



Teams

23 APR 2025

Jala Neti Workshop

Workshop on the traditional jala neti cleansing practice with demonstration and neti pots for interested participants; 30 students and staff performed the exercise and a demo video was circulated afterwards.

100 participants · ₹6,000.



Demonstration



Practice session

EVENTS AND INITIATIVES · ACADEMIC TALKS AND SAFETY WORKSHOPS

Academic talks and safety workshops

3 MAY 2025

Fire and Lab Safety Workshop for Ph.D. Students

Indoor sessions and outdoor practicals covering fire classification, extinguisher use, a live mock drill, and laboratory safety (chemical handling, PPE, waste disposal and emergency first response).

73 participants (20 faculty/staff, 53 Ph.D.).



Participants and trainers



Practical session

19 FEB 2025

Seminar on Lab Safety

Seminar by senior faculty on do’s and don’ts in the laboratory and maintenance of research labs.

23 participants.



Seminar

19 FEB 2025

Types of DNA Damage and DNA Repair Mechanisms

Expert talk by Prof. Muniyappa on DNA damage types and repair pathways, and their relevance to cancer and genetic disorders.

51 participants (11 faculty, 40 students).



Audience


Expert talk

20 DEC 2024

Dystrophin and Muscular Dystrophy

Expert talk by Prof. Krishna M.G. Mallela (University of Colorado Anschutz Medical Campus) on the role of dystrophin in muscle function and the genetic causes of muscular dystrophy.

attendance not recorded.



Lecture



Talk in progress

ALSO RECORDED IN THIS THEME

Date	Event	Participation
28 Apr–2 May 2025	Revolutionizing Healthcare with AI: Computational Biology and Computer Vision in Medical Diagnostics – Dept. of CSE · DST-ANRF sponsored	55 participants · 5 days

EVENTS AND INITIATIVES · CULTURAL CELEBRATIONS MAPPED TO SDG 3

Cultural celebrations mapped to SDG 3

6 NOV 2024

Paridhaan'24 Ethnic Day Celebration

Cultural celebration of dance, music and an ethnic fashion showcase promoting inclusion and community well-being.

1,912 participants.





Musical performance

Ramp walk

ALSO RECORDED IN THIS THEME

Date	Event	Participation
2 Nov 2024	Halloween Celebrations – Student Council	approx. 300 participants

COMMUNITY OUTREACH ACTIVITIES

Taking health and well-being beyond the campus

Outreach activities extend SDG 3 to schools, villages and women's groups around the university. The NSS Cell, the university counsellors, the Directorate of Entrepreneurship & Innovation and the Directorate of Sports led the work below.

6 NOV 2024

Awareness Session on Menstrual Hygiene

Session by the university counsellor to dispel myths and taboos around menstruation, explain safe hygiene practice and product disposal, and offer personalised advice. Menstrual pads were distributed at the end of the session.

260 participants.



Audience



Session in the theatre

24–25 FEB 2025

Training Session: Making of Sanitary Pads (CSR ADITRI)

Two-day skills training for rural women on manufacturing sanitary pads, with business inputs on branding, packaging and marketing, aimed at menstrual-hygiene awareness and small-scale livelihoods.

16 attendees (11 external, 5 staff).



Hands-on training



Training group

28 OCT 2024

Cloth Distribution, Pedakakani

NSS volunteers distributed clothing to under-privileged families in Pedakakani near Guntur (10 AM–2 PM).

35 volunteers.



Distribution in Pedakakani



Volunteers with residents

4 APR 2025

Wellness Outreach at ZPH School, Nidamarru

Workshop for 9th-grade students moving to 10th grade on time management and the Pomodoro technique, with an activity on focused study intervals and a discussion of everyday distractions.

80 students · government school.



Workshop with students



Classroom session

5 AUG 2024

Social Media Symphony: Music and Discord

Awareness and interactive group-counselling session on social-media addiction and its effect on mental health, academic performance and well-being, covering Social Comparison Theory, Opponent-Process Theory and nomophobia, with strategies for healthier digital habits.

90 participants · outreach.


Session in progress


Participants with facilitators

21 JUN 2025

Village Yoga Session, Neerukonda

As part of International Day of Yoga 2025, a morning session led by the university's certified yoga instructor brought students and local residents together in Neerukonda village to share the health benefits of yoga with the neighbouring community.

about 95 community participants.

28 FEB 2025

Blind School Visit

Extension and outreach visit by NSS volunteers to a school for the blind.

31 participants.

RESEARCH AND PUBLICATIONS

SDG 3 research output, 2024–2025

The SDG 3-classified data set lists 215 publications for 2024–2025 (126 in 2025, 89 in 2024). Health-related research leans towards data-driven diagnosis and prediction, with AI and machine-learning terms in 52 titles, alongside molecular biology, public health and biomedical sensing. The table lists eleven of the most directly health-focused papers (FWCI = Field-Weighted Citation Impact).

SCOPUS / SCIVAL: SRM UNIVERSITY-AP WITHIN SDG 3 (2024–2025)

215	126	81	52	140
SDG 3 publications, 2024–2025	published in 2025 (89 in 2024)	with FWCI above 1	titles with AI and machine-learning terms	of 215 records list more than one institution

SELECTED SDG 3 PUBLICATIONS

#	Publication	Year / type	CiteScore	FWCI
1	**Federated learning-based disease prediction: A fusion approach with feature selection and extraction** Kapila, R., Saleti, S.	2025 · Article	13	8.37
2	**Explainable Artificial Intelligence based ML Models for Heart Disease Prediction** Kommineni, S., Muddana, S. et al.	2024 · Conference Paper	–	7.39
3	**Pneumonia Detection from X-Ray Images Using Deep Transfer Learning** Vemuri, S.S., Kotha, S. et al.	2025 · Conference Paper	1.1	6.66
4	**PARP14 and PARP9/DTX3L regulate interferon-induced ADP-ribosylation** Kar, P., Chatrin, C. et al.	2024 · Article	16.8	6.15
5	**Optimized machine learning mechanism for big data healthcare system to predict disease risk factor** Thatha, V.N., Chalichalamala, S. et al.	2025 · Article	6.4	5.9
6	**Lung Cancer Detection Using Fusion-Based Deep Learning Techniques** Shiva, S., Kalluri, H.K.	2024 · Conference Paper	–	5.54
7	**Histopathological image based breast cancer diagnosis using deep learning and bio inspired optimization** Thatha, V.N., Karthik, M.G. et al.	2025 · Article	6.4	4.65
8	**ALL-Net: integrating CNN and explainable-AI for enhanced diagnosis and interpretation of acute lymphoblastic leukemia** Thiriveedhi, A., Ghanta, S. et al.	2025 · Article	6.1	4.18
9	**Integrating electrocardiogram and fundus images for early detection of cardiovascular diseases** Muthukumar, K.A., Nandi, D. et al.	2025 · Article	6.4	3.58
10	**Mental health of young adults pursuing higher education in Tier-1 cities of India: A cross-sectional study**	2025 · Article	6.5	3.42

#	Publication	Year / type	CiteScore	FWCI
	Suresh, K., Dar, A.A.			
11	**Burden of non-communicable diseases in South Asia: a decomposition analysis** Pradhan, J., Pai, M. et al.	2025 · Article	3.6	2.92

STARTUPS AND INNOVATION IN HEALTHCARE

Healthcare startups under incubation

Five startups with SDG 3 as their primary goal are supported by the university's incubation programme, spanning digital healthcare access, mental-health technology, portable cardiac diagnostics and skin-diagnostic solutions. Founders include a student, an alumna and three external entrepreneurs.

Startup	Focus	Incubation	Funding
Halekard Private Limited External founder · Pvt Ltd (inc. 12 Mar 2024)	Single "Healthkard" card giving people hassle-free access to physical doctor consultations across multiple associated doctors, multiple times.	8 Apr 2024 – 8 Oct 2025	No funding reported
My Buds Student founder · registration under process	Deep-tech-enabled mental health app.	16 May 2024 – 16 Nov 2025	₹50,000 · Directorate of Entrepreneurship
Aksharaarka Enterprise Pvt Ltd External founder · Pvt Ltd (inc. 2 Sep 2016)	Portable ECG device.	9 Dec 2024 – 9 Dec 2025	No funding reported
CereBro Alumni founder (female) · registration under process	App bridging mental-health professionals and people seeking accessible tools, combining therapeutic mini-games, AI-driven support and expert input.	3 Feb 2025 – 3 Feb 2026	₹50,000 · Directorate of Entrepreneurship
Theronex Healthcare Pvt Ltd External founder · Pvt Ltd (inc. 10 Dec 2024)	Fluorescence-based skin diagnostic solutions.	11 Mar 2025 – 11 Mar 2026	₹5,00,000 grant · MeitY GENESIS

CONCLUSION

Progress towards good health and well-being

The records supplied for this report show SDG 3 treated as a whole-campus commitment rather than a single department's responsibility. Care is available on campus around the clock, counselling is free and confidential, and awareness sessions, health camps and sports events account for 13,519 recorded participations across 39 documented events and initiatives.

Beyond campus, the NSS Cell, counsellors and entrepreneurship teams have carried menstrual-hygiene education, school wellness workshops, village yoga and livelihood training to nearby communities. In research and innovation, 85 journal articles and 130 other outputs are classified under SDG 3, and five healthcare startups are being incubated.

SDG 4: Quality Education

Learning spaces, teaching quality, access to education, research and education start-ups

INTRODUCTION

Learning that reaches every student

Sustainable Development Goal 4 calls for **inclusive and equitable quality education** and lifelong learning opportunities for all. For a university it covers who can enter higher education, how well students are taught, what facilities support them, and how knowledge is shared beyond the campus.

SRM University-AP, Amaravati, is a multidisciplinary university on a 100-acre campus at Neerukonda, Guntur District, Andhra Pradesh. It has **490+ faculty**, **60+ collaborations** with universities worldwide, and three schools: the School of Engineering & Sciences, the Easwari School of Liberal Arts and the Paari School of Business. It also runs the AI Technology Institute and the Quantum Technology Institute.

The university contributes to SDG 4 through **learning spaces and a well-resourced library**, a Teaching Learning Centre that supports Outcome Based Education, **scholarships** and an equal-opportunity admission policy, a structured **orientation programme** for new students, and a steady calendar of **co-teaching sessions, workshops, outreach programmes and faculty development** events. Its researchers publish on teaching, learning and student wellbeing, and its incubator supports education start-ups.

This report covers the academic year **2024–25** (July 2024 – June 2025) wherever the data allows.

SRM UNIVERSITY-AP AT A GLANCE

100 acre campus	**490+** faculty members
60+ global university collaborations	**3** schools plus AI and Quantum institutes

HIGHLIGHTS

116 events mapped to SDG 4	**57,923** event participations recorded	**165** classrooms	**21** SDG 4 research publications	**3** education start-ups

LEARNING ENVIRONMENT

Classrooms and learning spaces

The university has **165 classrooms and 2 auditoriums**. Its learning spaces are flexible and technology-equipped: mobile tablet-arm seating that can be rearranged for lectures or group work, tiered halls with display screens, and round-table rooms built for discussion. These spaces support **active, collaborative teaching** as well as conventional lectures.

165	2
classrooms	auditoriums



Classroom with mobile tablet-arm seating



Flexible air-conditioned classroom



Tiered lecture hall with display screens



Collaborative learning room

LEARNING ENVIRONMENT

Library and learning resources

The library is fully air-conditioned and automated, with **RFID gates and self-service kiosks**, an online catalogue, a mobile app and EBSCO remote access. Its collection is largely digital, and students can also reach **NPTEL, e-PG Pathshala and SWAYAM** courses, which extend learning beyond the timetable.

459,458	54,536	35,835	881
eBooks (JSTOR, DELNET)	e-journals, e-magazines, e-newspapers	print volumes	CD/DVD-ROMs



Library reading area



Library study hall



Subject-signed reading area



Entrance with RFID gates and kiosks



Stacks and study tables



Students at work in the study hall

TEACHING AND ACCESS

Teaching support, scholarships and student induction

TEACHING AND LEARNING SUPPORT

The **Teaching Learning Centre** (TLC) supports faculty in implementing Outcome Based Education (OBE) and in improving pedagogy, curriculum, assessment and lesson-plan design. It houses an **E-Learning Studio** for producing educational content. TLC programmes include OBE training, a five-day course for newly joined faculty on teaching–learning methods, an AI workshop and a hands-on session on course curation (July–September 2025).

Faculty development also runs through the events described in this report, notably a national online programme on Algebra, Analysis and Number Theory that reached 934 participants, and co-teaching sessions in which visiting experts taught core undergraduate courses.

ACCESS, SCHOLARSHIPS AND STUDENT INDUCTION

- **Scholarships.** The university offers merit-based and need-based scholarships. For 2025–26 it provides a **50% tuition award** for bachelor's and master's applicants with 50% or more in the qualifying examination, subject to availability. Scholarships are merit-cum-need, taking economic status, social disadvantage and disability into account under an equal-opportunity policy, and meritorious students may receive scholarships of up to 100%. The terms shown are the current policy.
- **UDAAN 2024.** More than **3,000 new students from over 20 states** began their journey through UDAAN 2024, a 10-day orientation programme held on 12–23 August 2024. It introduced the university's schools, directorates, faculty and student clubs. In all, **3,279 participations** were recorded in the induction programme and the talks and club orientations around it.
- **Commitment to the SDGs.** The university's SDG Cell states a vision to establish the university as a leader in advancing the Sustainable Development Goals through education, research, campus sustainability and community engagement.

3,000+
new students at UDAAN 2024

20+
states represented

10
days of orientation, 12–23 Aug 2024

3,279
induction participations recorded

EVENTS AND INITIATIVES

Events and initiatives at a glance

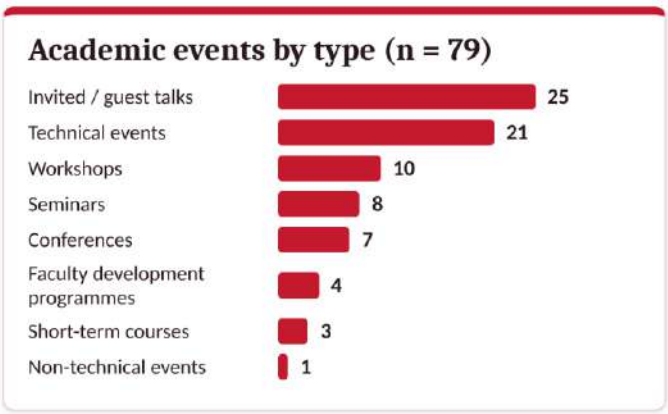
During AY 2024–25 the university mapped **116 events** to SDG 4: guest lectures, co-teaching sessions, workshops, seminars, conferences, faculty development programmes, orientation programmes and outreach activities. The pages that follow feature the events that best reflect quality education, with the number of participants and a short description of each.

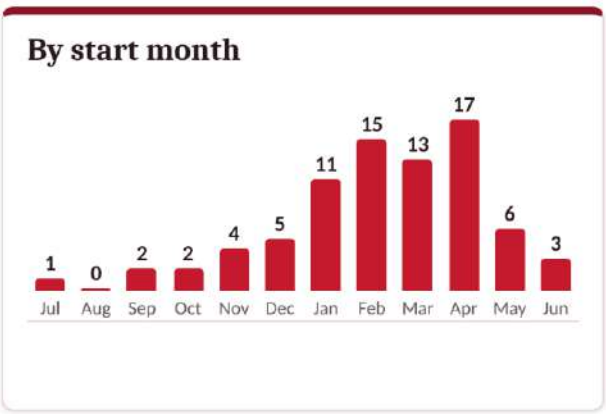
116
events mapped to SDG 4

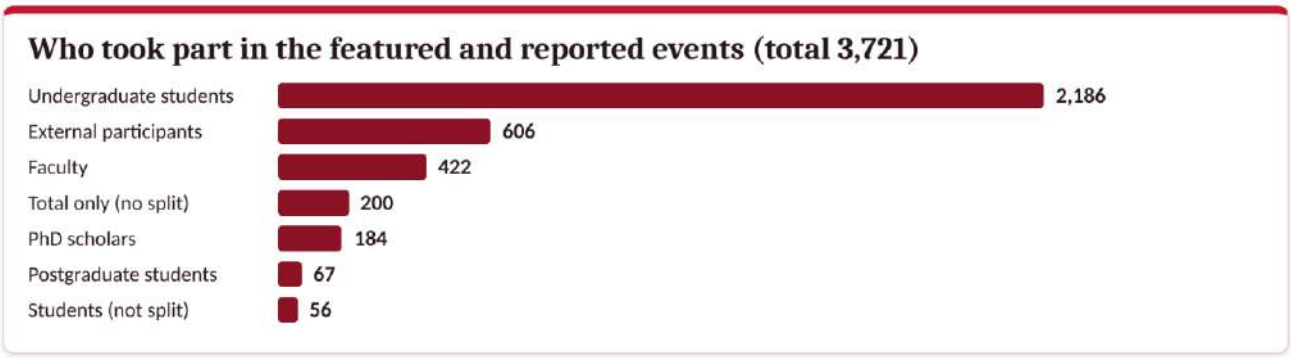
57,923
participations recorded

432
event-days across the 79 listed academic events

12
featured events in this report







EVENTS AND INITIATIVES · FEATURED EVENTS 1–3

Co-teaching and faculty development

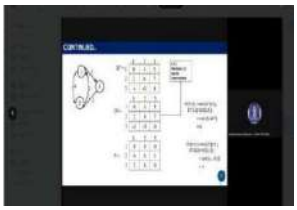
1 · Co-Teaching Sessions on Data Structures (CSE102)

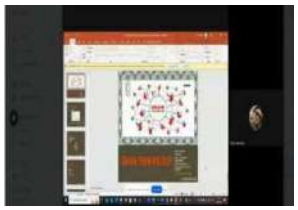
19–20 Apr 2025 · Expert lecture series · Online

1,267 participants

Visiting faculty from an NIT co-taught two sessions on shortest-path algorithms (Dijkstra, Bellman-Ford, Floyd-Warshall), with interactive problem-solving and a comparison of algorithms by time complexity. Students gave positive feedback. The sessions brought outside expertise into a core course for 1,264 undergraduates.







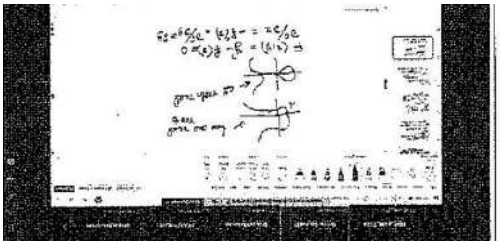


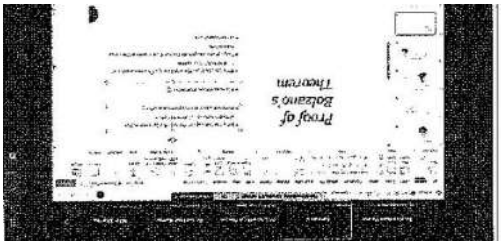
2 · Faculty Development Programme on Algebra, Analysis and Number Theory

16–20 Dec 2024 · National-level FDP · Online

934 participants

A five-day national online programme on fundamental theorems, abstract structures and their applications in research. Participants reported stronger subject expertise, problem-solving skills and modern teaching approaches. Nearly half of the 934 participants came from other institutions, which makes it a national-scale teacher-upskilling effort.



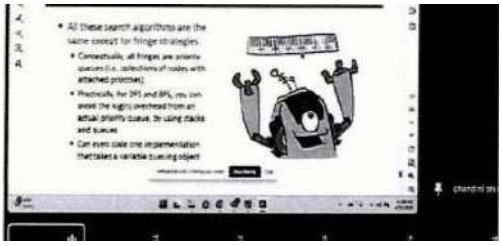


3 · Co-Teaching Sessions for Artificial Intelligence Course (Unit 4)

26 Apr 2025 · Expert lecture (industry) · Online

342 participants

Industry experts co-taught Unit 4 of the Artificial Intelligence course: problem solving by searching, heuristic search and planning algorithms. The sessions linked academic theory to real-world applications and narrowed the gap between learning and industry expectations.





EVENTS AND INITIATIVES · FEATURED EVENTS 4–6

Expert talks and guest lectures

4 · Recommendation Systems and Bias in Recommendations

29–30 Mar 2025 · Co-teaching workshop · Online

311 participants

A two-session workshop for third-year B.Tech students on collaborative, content-based and hybrid recommender systems, and on how bias arises and can be reduced. It combined theory with hands-on Python coding, giving 311 undergraduates practical, fairness-aware data-science skills.

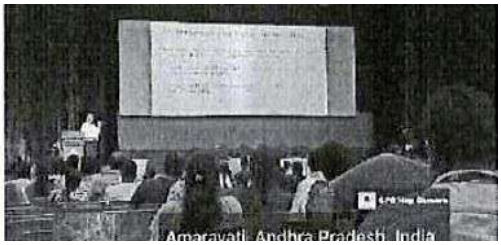


5 · Six Blind Men of Indostan: Theory and Applications of Distributed Inference

7 Apr 2025 · University Distinguished Lecture #21

200 participants

The 21st University Distinguished Lecture, delivered by a professor from Syracuse University, USA, on how limited-view sensors can jointly inform decisions in security, surveillance and disease detection. It gave students and researchers direct access to international expertise and encouraged interdisciplinary research.





6 · Big Data and Data Analytics and its Applications in Mathematics

20–21 Jan 2025 · Guest lecture series · On campus

28 participants

A series of three guest lectures over two days by a visiting professor emeritus from a US university on big data and data analytics and their applications in mathematics, opening a fast-growing area to students and doctoral scholars.









EVENTS AND INITIATIVES · FEATURED EVENTS 7–9

Outreach, foundation school and research methods

7 · Chetna 2.0: Awakening Mathematical Minds

26–28 May 2025 · Summer outreach programme · On campus

84 participants

A three-day summer programme for final-year BSc/BA mathematics students, taught by the university's own faculty across a broad range of topics, with the stated aim of motivating them to pursue an MSc in Mathematics. A clear pathway from undergraduate to postgraduate study.





8 · Annual Foundation School (AFS) – II 2025

12 May – 7 Jun 2025 · Workshop · On campus

76 participants

A month-long foundation school, run with the National Centre for Mathematics, to bring students from varied backgrounds to a common level in Algebra, Analysis and Topology before advanced instructional schools. 38 of the 76 participants came from outside the university, and some expressed interest in doctoral study.





9 · Qualitative Research: Principles, Methods and Practice

8–16 Feb 2025 · Faculty development workshop · Online

64 participants

An online workshop that trained faculty and doctoral scholars to design, conduct, analyse and publish rigorous qualitative research, with hands-on exercises, a research-plan draft and peer feedback. Most of the 64 participants joined from other institutions.



EVENTS AND INITIATIVES · FEATURED EVENTS 10–12

Skills, symposium and research pathways

10 · Workshop cum Mini-Symposium on Partial Differential Equations

23–28 Dec 2024 · Workshop and symposium · On campus

33 participants

A workshop on the regularity theory of elliptic partial differential equations for newly joined PhD students, followed by a mini-symposium on applied mathematics with speakers from leading Indian institutions. Participants asked for it to become an annual event.





11 · Skill Development Training for Students: 3D CAD Modeling

17–22 Mar 2025 · Workshop · On campus

36 participants

A six-day hands-on course in 3D CAD covering industry-standard software, creating 3D models from 2D drawings, and core modelling techniques. It builds job-relevant technical skills and employability for students.





12 · Everything You Need to Know About Ph.D. in CSE at SRM University-AP

19 Mar 2025 · Webinar

40 participants

A webinar explaining the Ph.D. journey in Computer Science and Engineering at the university, from application and admission to milestones and completion, with an introduction to research areas. Half of the 40 attendees were external, which widens access to doctoral education.



EVENTS AND INITIATIVES · STUDENT PROGRAMMES AND OUTREACH

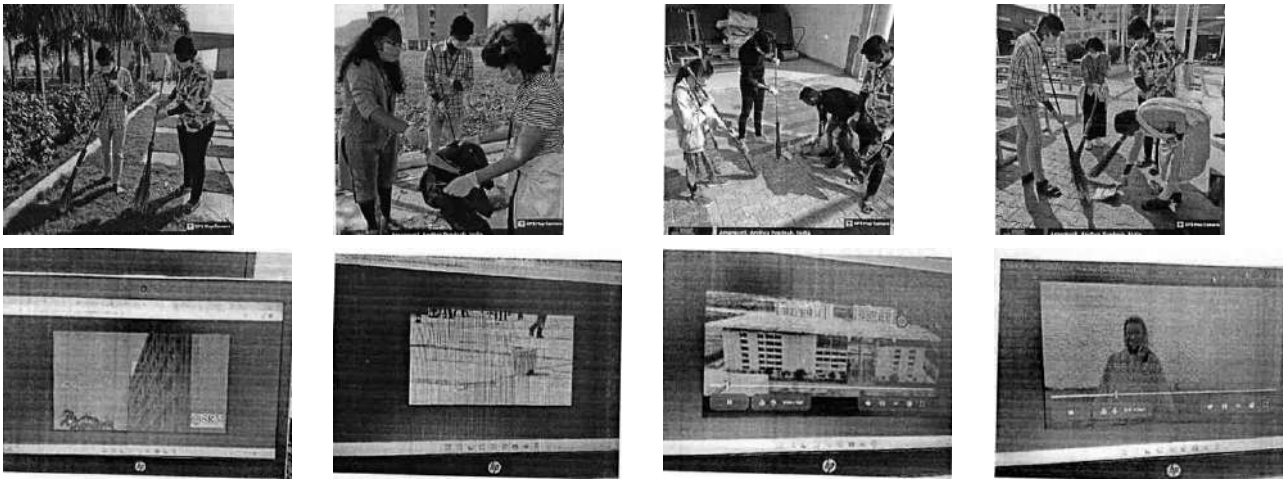
Student programmes and outreach

Alongside academic events, the university runs large student programmes, especially in the induction period of August 2024, that bring new students into the learning community. The table lists the best-attended programmes.

Programme	Date	Participants
Report on Techprenuer 2024	02 Sep 2024	3,537
Freshmen Orientation Program 2024	12-08-2024 to 23-08-2024	3,279
National Space Day (Live Telecast)	23 Aug 2024	3,020
World Photography Day 2024	19 Aug 2024	3,000
Teachers Day	24 Sep 2024	2,349
Pre-Infinitius Activities	29-01-2025 to 02-02-2025	2,150
Vedic Science Book Exhibition	18 Nov 2024	2,010
Talk By Mr. Samuel Jonathon	17 Aug 2024	2,008
Talk By Mr.Kishan Sreenath	14 Aug 2024	1,761
Talk By Mr. Saurabh Aggarwal	16 Aug 2024	1,709

OUTREACH AND SERVICE LEARNING

Two student-led service programmes reached students through **hygiene and sanitation awareness**: a two-hour campus cleaning drive (22 January 2025, 19 participants) and an online video competition aligned with Swachh Bharat Abhiyan (21 August 2024, 19 participants).



RESEARCH AND PUBLICATIONS

Research contributions to SDG 4

21 publications by the university (2024–2025) are mapped to SDG 4. Based on their titles, **15** deal directly with education, teaching, learning or learners, including educational technology, student wellbeing, diversity and teacher upskilling. The other 6 concern corporate governance, sustainability and engineering topics and have only an indirect link, so they are not featured. Selected publications are listed below.

21	1.41	76	1,245	38.1%
SDG 4 publications, 2024–2025	field-weighted citation impact	citations	views	international collaboration (8 publications)

TOP KEYPHRASES (BY RELEVANCE)

Corporate Social Responsibility	Education	Activity Learning	Data Analytics	Blockchain

SELECTED PUBLICATIONS DIRECTLY RELEVANT TO SDG 4

#	Title, authors and relevance	Year / type	DOI
1	**Engineering Students' Attitudes and Perceptions towards Project-Based Learning: A Study from Kerala, Southern India** Akshay, R.S.; Sunny, A.; Saranya, V.S.; John, A.; Subheesh, N.P.; Anzar, S.M. Learners' attitudes towards project-based learning in engineering education.	2024 · Conference Paper	10.1109/TALE62452.2024.10834355
2	**Mental health of young adults pursuing higher education in Tier-1 cities of India: A cross-sectional study** Suresh, K.; Dar, A.A. Wellbeing of students in higher education, a condition for inclusive learning.	2025 · Article	10.1016/j.ajp.2025.104447
3	**A Multilayer Framework for Data-Driven Student Modeling** Ganapaneni, M.D.; Sobin, C.C.; Subheesh, N.P. Learning analytics: modelling students from data to support teaching.	2024 · Conference Paper	10.1007/978-981-97-2611-0_2
4	**Technology Empowered Teaching and Learning in Language Education: A Systematic Review** Dash, N.; Mohapatra, L.M. Systematic review of technology-enabled teaching and learning in language education.	2025 · Chapter	10.1007/978-3-031-77232-0_8
5	**Factors affecting student diversity in higher education institutions: a data-driven case study from India** Jain, G.; Haroon, A.P.; Ganeshan, P.; Rajendran, K. Equity and inclusion: factors shaping student diversity in higher education institutions.	2025 · Article	10.1007/s44217-025-00895-8
6	**Fostering Basic Electronics Teaching Competencies: Impact of the School Teachers' Electronics Practicals Upskilling Program (STEP-UP)** Subheesh, N.P.; Rajeev, A.; Abhinav, R.; Mohandas, H.; Sobin, C.C.; Kumar, P.; Kumar, R.	2024 · Conference Paper	10.1109/EDUCON60312.2024.10578828

#	Title, authors and relevance	Year / type	DOI
	Teacher upskilling: an electronics practicals programme for school teachers.		

STARTUPS AND INNOVATION

Education start-ups under incubation

Three education-focused ventures were registered with the university's incubation programme in 2024. All three are mapped to SDG 4 with "Education" as the social-impact focus, working on online training, AI classroom tools and access to industry exposure for students at smaller universities.

Startup	Sector	What it does	Incubation start
Vidya Spark Pvt Ltd	EDU-Tech	Online sessions, training and mentoring for students.	29 May 2024
CBUDDY Pvt Ltd	EduTech	AI tools and online classroom facilities for students and institutes.	19 Jun 2024
ProjectX	Social	A platform connecting Tier-3 and Tier-4 universities with industrial insight (registration under process).	15 Sep 2024

Vidya Spark

Learning beyond the classroom. Online sessions, training and mentoring support skill development and give students access to guidance outside the timetable.

CBUDDY

Learning technology. AI tools and online classroom facilities for both students and institutions support digital teaching and learning.

ProjectX

Closing an access gap. It aims to bring industry exposure to students of Tier-3 and Tier-4 universities, who often have less of it.

CONCLUSION

Progress towards quality education

SRM University-AP's contribution to SDG 4 in 2024–25 rests on **strong learning infrastructure**, **teaching and faculty capacity**, **access and skills**, **research** and **innovation**.

Learning environment. 165 classrooms, 2 auditoriums and a digitally rich, automated library support flexible, collaborative learning.

Teaching quality and faculty development. Co-teaching with external experts reached 1,264, 342 and 311 undergraduates in three sessions, and a national online faculty programme drew 934 participants, 462 of them from other institutions.

Access and skills. Scholarships, an equal-opportunity admission policy, a 10-day orientation for more than 3,000 new students, outreach such as Chetna 2.0 and workshops in 3D CAD and research methods widen participation and employability.

Research. 21 SDG 4 publications with a field-weighted citation impact of 1.41; 15 are directly about education, teaching and learners.

Innovation. Three education start-ups are under incubation in online training, AI classroom tools and university–industry linkage.

SDG 5: Gender Equality

Women in the university community, childcare on campus, awareness events, research and women's-safety startups

INTRODUCTION

Equality in people, facilities and programmes

Sustainable Development Goal 5 calls on every society to **achieve gender equality and empower all women and girls**. At SRM University-AP in Amaravati, Andhra Pradesh, that goal is pursued through three things: the people who make up the university community, the facilities that help them study and work, and the programmes that build awareness and confidence on campus.

This section of the Sustainability Annual Report brings those strands together for academic year **2024–25** and compares them with the two preceding years wherever the data allows.

In 2024–25 the university had **9,063 students**, of whom **3,305 (36.5%) were women**. It also had **451 teaching faculty** (110 women, 24.4%) and **385 non-teaching staff** (136 women, 35.3%).

Women's numbers rose in every group over the two years to 2024–25: women students by **61.5%**, women faculty by **111.5%** and women non-teaching staff by **7.1%**. Postgraduate enrolment is evenly balanced (**50.0%** women) and women are the majority of PhD scholars (**51.6%**).

Alongside these numbers, the university runs dedicated childcare facilities on campus for its faculty, staff and community and organised six SDG 5 events in 2024–25, from a policy awareness session on the Prevention of Sexual Harassment (POSH) to International Women's Day.



International Women's Day 2025



Paridhaan'24 Ethnic Day celebration



POSH awareness session

HIGHLIGHTS

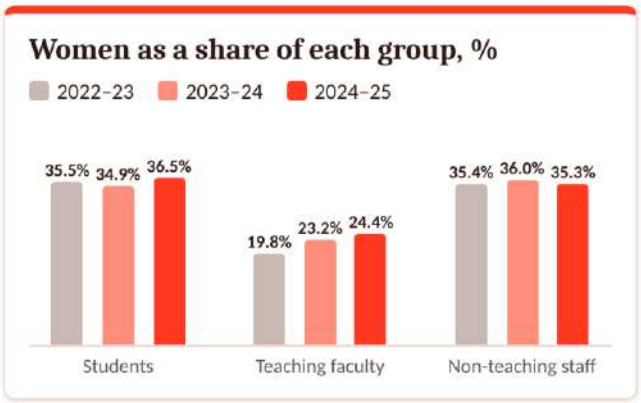
9,063	36.5%	24.4%	6	11
students enrolled in 2024–25	of students are women (3,305)	of teaching faculty are women (110 of 451)	SDG 5 events in 2024–25	SDG 5 publications, 2024–25

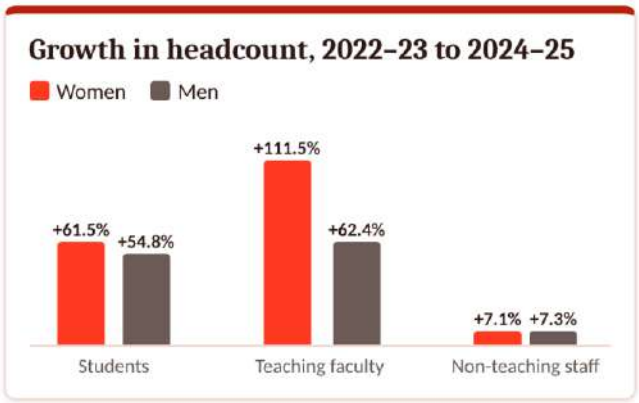
WOMEN AT SRM UNIVERSITY-AP

Women across students, faculty and staff

The university's headcount for 2022–23, 2023–24 and 2024–25 show how the gender profile of its students, teaching faculty and non-teaching staff has changed. The two charts below show the rise in women's share and in

women's headcount; all underlying counts and percentage changes are given in the text. Percentage change is (later year − earlier year) ÷ earlier year × 100.





9,063
students enrolled in 2024–25

36.5%
of students are women (3,305 of 9,063)

+41.6%
growth in women students, 2023–24 to 2024–25

451
teaching faculty, of whom 110 (24.4%) are women

+111.5%
growth in women faculty since 2022–23 (52 → 110)

6
SDG 5 events held in 2024–25

11
SDG 5 publications, 2024–25

2
women's-safety startups under incubation

WOMEN AT SRM UNIVERSITY-AP · HEADCOUNT DETAIL

How the gender profile has changed

STUDENTS

Total enrolment grew from 5,765 in 2022–23 to 6,695 in 2023–24 (**+16.1%**) and to 9,063 in 2024–25 (**+35.4%**), a rise of 57.2% over two years. The number of women students rose from 2,046 to 2,334 (**+14.1%**) and then to 3,305 (**+41.6%**), a **61.5%** increase over two years against 54.8% for men (3,719 to 4,361 to 5,758). Because women's enrolment grew faster than men's in 2024–25, the women's share of students rose from 34.9% to **36.5%** (it was 35.5% in 2022–23).

TEACHING FACULTY

Teaching faculty grew from 262 to 336 (**+28.2%**) and to 451 (**+34.2%**). Women faculty rose from 52 to 78 (**+50.0%**) and to 110 (**+41.0%**), more than doubling in two years (**+111.5%**) against +62.4% for men (210 to 258 to 341). The women's share of faculty therefore climbed from 19.8% to 23.2% and then to **24.4%**, a gain of 4.5 percentage points.

NON-TEACHING STAFF

Non-teaching staff changed more slowly, from 359 to 364 (**+1.4%**) and to 385 (**+5.8%**). Women staff rose from 127 to 131 (+3.1%) and to 136 (+3.8%), +7.1% over two years against +7.3% for men (232 to 233 to 249). Women's share of staff stayed steady at 35.4%, 36.0% and 35.3%.

STUDENTS BY LEVEL OF STUDY, 2024–25

Of the 8,119 undergraduates, 2,826 (34.8%) are women. At postgraduate level the split is exactly even, with 249 women and 249 men (**50.0%** each), and among the 446 PhD scholars women are the majority: 230, or **51.6%**.

FACULTY BY POSITION, 2024–25

The women's share of faculty is highest in guest roles (4 of 11, 36.4%) and visiting roles (6 of 23, 26.1%), and falls with seniority: **25.8%** of assistant professors (89 of 345), **17.9%** of associate professors (7 of 39) and **12.1%** of professors (4 of 33). Overall, 110 of 451 faculty are women (24.4%).

CHILD CARE FACILITIES ON CAMPUS

Day care at SRM University-AP

DAY CARE AT SRM UNIVERSITY-AP

“SRM University-AP provides dedicated childcare facilities right on its campus to support the well-being of its faculty, staff, and university community.”



Day care entrance


Day care play area


Outdoor children’s play area


Learning posters and soft flooring

The day care room is a bright, air-conditioned space with soft interlocking foam flooring in four colours. It has a swing-and-slide set, a rocking horse, ride-on toys and a toy house for play, and wall posters of animals, transport and fruits that support early learning.

EVENTS AND INITIATIVES

Six events, three themes

SDG 5 events at SRM University-AP are organised by the Directorate of Student Affairs, the NSS Cell with the Wellness Centre, the Student Council and academic departments. Six events were held in 2024–25, grouped below by theme.

6
SDG 5 events, Aug 2024 – Mar 2025

4,213
participants across the other five events

1,000+
students at the gender sensitivity session

AWARENESS, SAFETY AND HEALTH

Gender Sensitivity Session – "Vibe Tribe: Embracing Unique Beats of Inclusivity"

20–21 Aug 2024 · 1,000+ UG students, 4 faculty, 1 external · APJ Abdul Kalam Auditorium

Held as part of the orientation programme for first-year students and organised by the Directorate of Student Affairs. University counsellors **Ms Alekhya Sankara** and **Mr Joel Kristof Gibbs** led interactive sessions on gender identities, stereotypes and bias. Students were encouraged to use inclusive language and to embrace diverse perspectives, so that the campus is welcoming and respectful for everyone.


Awareness talk


Awareness talk


Slide display


Audience

Awareness Session on POSH (Prevention of Sexual Harassment)

21 Aug 2024 · 1,205 participants · APJ Abdul Kalam Auditorium

Organised by the Directorate of Student Affairs for the university community, with **Ms Suez Ravuri** of the Department of Women Development and Child Welfare, Andhra Pradesh, as resource person. The session explained what counts as sexual harassment, how to file a complaint, the role of the Internal Complaints Committee and how reporting and counselling support work, stressing that men and women alike can seek redress. The speaker was presented with a memento in appreciation.


Talk session


Welcome banner


Audience


Audience

Awareness Session on Menstrual Hygiene

6 Nov 2024 · 260 participants · NSS Cell & Wellness Centre

An NSS Cell session led by university counsellor **Ms Alekhya Sankara**, aimed at women from the university's housekeeping staff. It dispelled myths and taboos, explained hygiene practices and the safe use and disposal of sanitary products, and gave participants space to share concerns and seek personal advice. Sanitary pads were distributed at the end of the session.


Session by Ms Alekhya


Presentation display


Audience


Audience

CULTURE, INCLUSION AND CELEBRATION

Paridhaan'24 – Ethnic Day Celebration

6 Nov 2024 · 1,912 participants · APJ Abdul Kalam Auditorium

A day of culture, colour and celebration organised by the Directorate of Student Affairs and the Student Council. Dance performances, music, an ethnic fashion showcase and cultural exhibits celebrated the diversity of the university community,

with students, faculty and staff wearing traditional attire. The event reinforced inclusion and respect for different heritages and identities.


Musical performance


Audience


Dance performance


Ramp walk

International Women's Day 2025 – "Accelerate Action"

12 Mar 2025 · 800 participants · APJ Abdul Kalam Auditorium · Student Council & Directorate of Student Affairs

The celebration honoured the achievements and spirit of women through competitions held on campus and online – tug of war, debate, cooking without fire, arm wrestling, a push-up competition, themed posters and photography – followed by a main programme in the auditorium. **Vice-Chancellor Prof. Manoj K Arora** urged students to be multi-faceted, and chief guest **Smt. Madhuri Nallapaneni**, Group Director of Cadence-Invecas India, spoke on empowering women through knowledge and leadership.

The **Uttama Mahila Prathibha Award**, an initiative of the Prof. V.S. Rao Foundation, recognised women across categories such as landscaping, security and mess services. Prize distribution and a cultural programme of dance and music closed the day. Participants: 510 undergraduates, 20 postgraduates, 20 faculty and 250 external participants from the housekeeping staff.


Stage programme


Audience in the auditorium


Push-up competition


Cooking activity


Tug of war


Participants during the event

ACADEMIC DISCUSSION

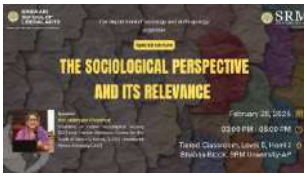
Invited Lecture – The Sociological Perspective and Its Relevance

25 Feb 2025 · 36 participants · Dept. of Sociology & Anthropology

A departmental special lecture in the Easwari School of Liberal Arts by **Prof. Maitrayee Chaudhuri**, President of the Indian Sociological Society and former professor at Jawaharlal Nehru University. It showed how the sociological perspective helps analyse inequality, identity, culture and globalisation. Attendees: 1 external guest, 15 faculty, 5 PhD scholars and 15 undergraduates.



Lecture in progress



Event poster

COMMUNITY OUTREACH ACTIVITIES

Reaching the university's housekeeping staff

Two of the 2024–25 events reached the university's housekeeping staff, who sit outside the student and faculty body.

- **Menstrual hygiene awareness (6 Nov 2024).** The NSS Cell and Wellness Centre ran a two-hour session for **260 women from the housekeeping staff**. Counsellor Ms Alekhya Sankara addressed myths, hygiene practice and safe disposal, answered individual questions and distributed sanitary pads; women were encouraged to share what they learned with their children.
- **International Women's Day (12 Mar 2025). 250 of the 800 participants (31.3%)** were external participants from the housekeeping staff, and the Uttama Mahila Prathibha Award recognised women working in landscaping, security and mess services.

510

housekeeping-staff participations across the two events (260 + 250); some individuals may have attended both



Audience at the session



Participants in the auditorium

RESEARCH AND PUBLICATIONS

SDG 5 research output, 2024–25

The university has **11 publications** for 2024–2025 under SDG 5: **7 journal articles, 2 book chapters and 2 books**. Nine carry a 2025 date and two a 2024 date (November 2024). The counts are shown by year for reference only, so no growth rate is drawn from them.

Seven of the eleven are directly about gender – women on corporate boards, women's political representation, gender performativity in comics, representations of feticide and infanticide in Hindi films, the female body in Bāul philosophy, women's psychological empowerment and the Goddess traditions of South Asia – and are featured below.

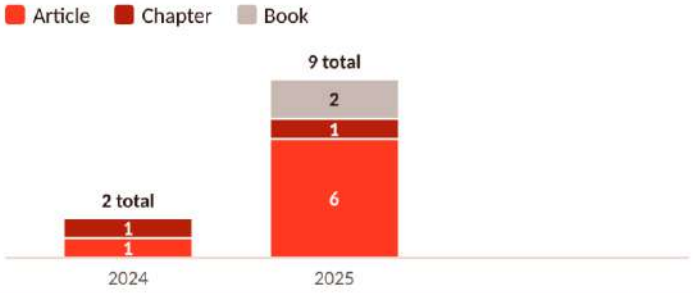
11
SDG 5 publications, 2024–25

7
journal articles

3.30
highest field-weighted citation impact among featured papers (Gupta & Bhattacharjee)

3.04
FWCI for the paper on women on corporate boards (Saeed)

SDG 5 publications by year and type



Publication mix

7 journal articles
2 book chapters
2 books
Nine carry a 2025 date and two a 2024 date.

FEATURED GENDER-FOCUSED PUBLICATIONS

#	Title and authors	Type · year	CiteScore	Percentile	FWCI
1	**The Impact of Women on Corporate Boards on Intellectual Capital Efficiency and Business Performance in Sub-Saharan Africa** Saeed, M.	Article · 2025	4.0	30	3.04
2	**The Intersection of Culture and Politics: Understanding Women's Underrepresentation in Indian Democracy** Thomas, V.; Kaunain, S.	Article · 2025	2.9	41	0.83
3	**Framing the Feminine Fury: Gender Performativity through Decolonial Visuality in Select Indian Comics** Gupta, R.; Bhattacharjee, P.	Article · 2025	1.1	7	3.30
4	**A Decolonial Reading of the Dystopian Narratives about Feticide and Infanticide in Hindi Films** Basu, A.; Tripathi, P.	Article · 2025	0.3	50	0.00
5	**Embodied Divinity and Gendered Paradox: Reimagining the Female Body in Bāul Philosophy** Thakur, S.	Article · 2025	0.4	53	0.00
6	**From Resist to Privilege: Rising Psychological Empowerment and Gender Equality for Poverty Alleviation** Dhamodharan, M.; Sunaina, K.	Chapter · 2024	–	–	0.00
7	**Goddesses in South Asia: Traditions and Transformations** Mahalakshmi, R.; Binny, M.; Yadav, M.	Book · 2025	–	–	0.00

STARTUPS AND INNOVATION

Women's-safety startups under incubation

Two startups mapped to SDG 5 are supported through the university's incubation programme, and both focus on women's safety. One is an external founder's IoT safety device; the other, founded by a student, has been registered as a private limited company and has received a government grant.

2
SDG 5 startups under incubation

₹5 lakh
MeitY GENESIS grant to VHASS (₹5,00,000)

365
days of incubation for each startup

1
student-founded startup, incorporated Feb 2025

Project SWD

Smart safety device for women

Sector	Safety device – IoT-based sensors
Social impact	Sustainability
Founder	Mr Varshith (external)
Legal entity	Registration under process
Incubation	20 Nov 2024 – 20 Nov 2025
Funding / revenue	Nil / none generated
Patents	None filed

VHASS Softwares Private Limited

Real-time tracking, secure communication and community emergency response for women's safety

Sector	Safety device
Social impact	Sustainability & Education
Founder	Mr Hemanth Krishna Vardhan (student)
Legal entity	Pvt Ltd, incorporated 26 Feb 2025
Incubation	3 Mar 2025 – 3 Mar 2026 (MoU signed 3 Mar 2025)
Funding	₹5,00,000 grant – MeitY GENESIS
Revenue / patents	None generated / none filed

CONCLUSION

Progress towards gender equality

In 2024–25 women's presence grew across SRM University-AP, alongside a set of practical supports around it. The key facts are summarised below.

Women's numbers are rising in every group. Women students grew by +61.5% over two years to 3,305 (36.5% of students), women faculty by +111.5% to 110 (24.4% of faculty) and women non-teaching staff by +7.1% to 136.

Parity at advanced study. Women are 50.0% of postgraduate students and 51.6% of PhD scholars.

Seniority is the gap to close. Women hold 12.1% of professor posts and 17.9% of associate professor posts, against 25.8% of assistant professor posts.

Support on campus. Dedicated on-campus childcare facilities support the well-being of faculty, staff and the university community.

Awareness at scale. Six SDG 5 events in 2024–25 reached more than 5,000 participations, covering gender sensitivity, POSH, menstrual hygiene, cultural inclusion, academic debate and International Women's Day.

Outreach beyond the classroom. Women from the housekeeping staff took part in the menstrual hygiene session (260) and in International Women's Day (250).

Research and innovation. Eleven SDG 5 publications, seven of them directly on gender, and two women's-safety startups in incubation, one backed by a ₹5,00,000 MeitY GENESIS grant.

SDG 6: Clean Water and Sanitation

Water supply, treatment and reuse on campus, conservation works, cleanliness events and water research

INTRODUCTION

Water, sanitation and research at SRM University-AP

Sustainable Development Goal 6 calls on every society to **ensure availability and sustainable management of water and sanitation for all**. At SRM University-AP in Amaravati, Andhra Pradesh, that goal is pursued through the water the campus draws, treats, stores and reuses, through events that build a culture of cleanliness and water stewardship, and through the research the university publishes on water quality and treatment.

This section of the Sustainability Annual Report covers the campus water data for **FY 2024–25**, the SDG 6 events, the publications of **calendar years 2024 and 2025** and the campus water conservation works.

In brief, the campus has 5 water treatment plants (1,350 KLD), 4 sewage treatment plants (1,003 KLD), 5 RO plants (10,000 LPH), 3,793 taps with low-flow fixtures and 11 rainwater harvesting systems; three SDG 6 events recorded 315 participants; and the university has 115 SDG 6 publications for 2024–2025.



Reverse osmosis (RO) plant



Treated water storage tank



Ultrafiltration (UF) unit

HIGHLIGHTS

3,793 taps with low-flow fixtures (100%)

1,350 KLD capacity of 5 water treatment plants

11 rainwater harvesting systems

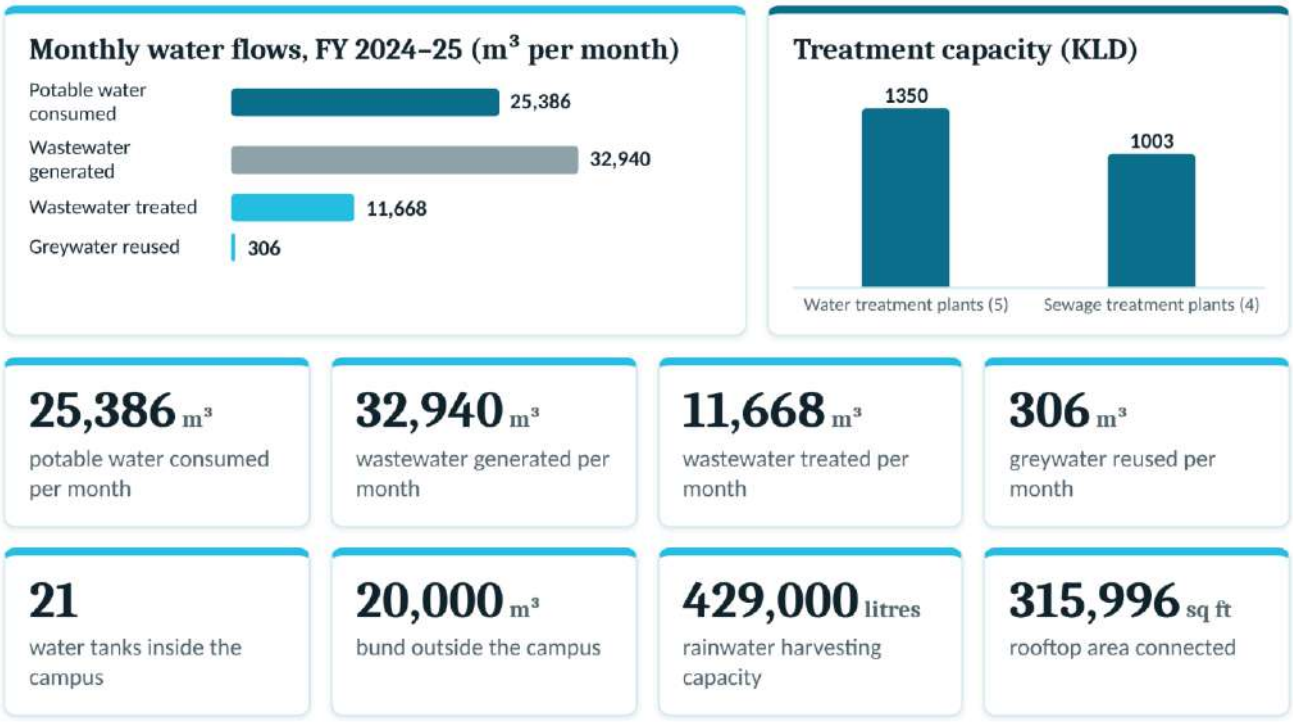
315 participants across three SDG 6 events

115 SDG 6 publications, 2024–2025

WATER AT SRM UNIVERSITY-AP

Supply, treatment and reuse

This section reports how much water the university uses, how much wastewater it generates, how much is treated and reused, and the capacity of its treatment and water-harvesting infrastructure. Consumption, wastewater and sludge values are per month for FY 2024–25; capacities and counts describe the installed infrastructure.



SUPPLY, STORAGE AND TREATMENT INFRASTRUCTURE

Potable water consumption in FY 2024–25 is **25,386 m³ per month**. The campus has **5 water treatment plants (WTPs)** with a combined capacity of **1,350 KLD (m³ per day)** and **5 RO plants** with a combined capacity of **10,000 LPH**. Water is held in **21 tanks inside the campus** and a bund outside the campus with a capacity of **20,000 m³**; **5 open borewells**, and the pumps installed across the campus total **4,955 HP**. Total water consumption is **343,571 litres**.

WASTEWATER TREATMENT AND REUSE

In FY 2024–25 the campus generates **32,940 m³ of wastewater per month**, of which **11,668 m³ is treated per month** before discharge, and **306 m³ of greywater is reused each month**. The share of wastewater treated and reused at approximately **42%**. The **4 sewage treatment plants (STPs)** have a combined capacity of **1,003 KLD**, equal to the total wastewater treatment capacity. Sludge generated is **15 kg per month**, and **140,026,000 litres** of wastewater has been reused.

RAINWATER HARVESTING AND EFFICIENT FIXTURES

11 rainwater harvesting systems are installed, with a capacity of **429,000 litres**. The rooftop area connected to them is **315,996 sq ft**, which equals the total rooftop area, so the whole roof is connected. All **3,793 taps** on the campus – 100% – are installed with low-flow fixtures.

CAMPUS WATER INFRASTRUCTURE IN PICTURES

Treatment, storage and drinking water

Treatment plants. Softener, carbon and sand filters and ultrafiltration units form part of the water treatment plants counted in the data above.


Softener, carbon and sand filters


Filter bank with piping


Ultrafiltration unit


Ultrafiltration unit and SOP board

Storage and supply. Treated water is held in storage tanks, and the final water tanks carry cleaning-schedule labels. The borewell marker shown records a depth of 605 feet.


Storage tank


Final water tanks


Borewell point 13


Inflow into a collection pit

Drinking water and awareness. Signage on campus carries the message “Save Water – Don’t waste it” next to the drinking water sign, with water dispensers for everyday use.



Save-water signage and dispenser


Drinking water dispenser

WATER CONSERVATION INITIATIVES

Conservation works across the campus

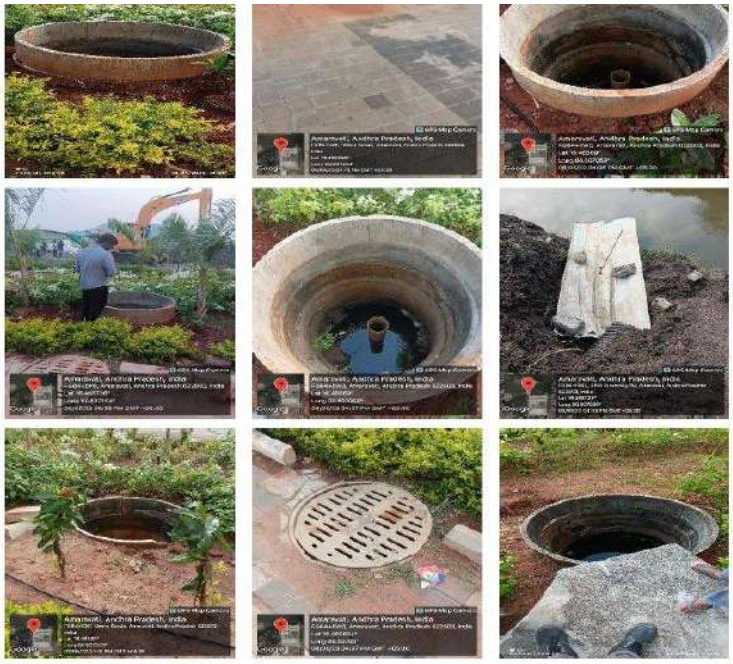
The campus water conservation works cover rainwater harvesting, borewell and open-well recharge, tanks and bunds, water treatment and distribution, wastewater recycling and water-saving fixtures. The photographs were taken between May 2023 and February 2024.

Rainwater harvesting

The campus has implemented a rainwater harvesting system comprising **10 rechargeable pits**, designed to collect and store rainwater. By harnessing rainfall, the pits help replenish groundwater levels and ease water scarcity, and their rechargeable nature allows continuous use throughout the campus. Overflowing rainwater overflows, it can mix with nearby bodies of water such as lakes, potentially raising water levels and giving rise to environmental concerns.

Storm-water drainage and rainwater pits. For the **storm-water drainage** works (item 6.1), the works include excavation for pipeline trenches and manholes of **2,177.300 cum** up to 1,500 mm depth and **304.681 cum** from 1,500 to 3,000 mm; **1,969.100 Rmt** of 300 mm RCC hume pipe; **78** RCC catch basins of 0.6 × 0.9 m and **57** of 1.20 × 1.20 m, with **15.400 Rmt** extra over for depths of 1.5 to 3.0 m; **60** manhole footrests; **22** FRP manhole gratings of grade D400 and **64** of grade 10 T; and **one** connection to the municipal storm-water drain.

For the **rainwater harvesting** pits (item 6.2), excavation is **157.290 cum** up to 1,500 mm depth, **157.290 cum** from 1,500 to 3,000 mm, **140.826 cum** from 3,000 to 4,500 mm and **23.888 cum** from 4,500 to 6,000 mm. The pits use **13** precast concrete circular well kerbs of ø1,500 mm, with extra-over lengths of **19.500 Rmt**, **15.900 Rmt** and **4.250 Rmt** for depths of 1.5–3.0 m, 3.0–4.5 m and 4.5–6.0 m, and **10** filter-media sets (gravel, sand, pebbles, brick and boulder layers with a ø160 mm cowl and perforated pipe). Quantities are in cubic metres (cum) and running metres (Rmt).



Rainwater recharge pits across the campus – Nine photographs show circular recharge-pit chambers set in landscaped beds and paved walkways, including one with a slotted cover at pavement level.

Borewell and open-well recharge

Photographs show borewell recharge points marked with numbered signs in landscaped areas of the campus. The marker on one borewell point records a depth of 605 feet; the campus has 5 open borewells.



Borewell 2



Recharge point in a garden



Borewell 1

Tanks, bunds and water bodies

The campus has a water body and covered storage tanks, maintained as part of its water system. These correspond to the 21 tanks inside the campus and the 20,000 m³ bund outside it.



Campus water body



Water body and covered structure



Wide view of the water body



Covered tank, outside







Inside a covered tank | Covered tank, interior | Covered tank beside the water body

Water treatment and distribution

Four water treatment plants, **WTP-01 to WTP-04**, are charted. Each is fed with **CRDA raw water (300 KLD)**, and the charts show it passing through flash mixing, flocculation, tube settling, sand, carbon and softener filtration and ultrafiltration before it reaches a final water tank and a hydro-pneumatic system. Tank sizes and RO capacities below are as labelled on the charts.

WTP-01 has a 70 KL raw water tank, 15 KL flash-mixing and 15 KL flocculation tanks, a 30 KL tube settler, 35 KL and 89 KL treated water tanks and ultrafiltration, and ends at a final water tank of 85 KL; it is shown with RO Plant-1 and RO Plant-2 (1,500 LPH each) and supplies the Main Kitchen, hostels, X-Lab and the Old Academic Block. **WTP-02** has a 349 KLD raw water tank, 0.5 KL flash mixing, 30 KL flocculation, a 35 KL tube settler and a 22 KL treated water tank, ends at a 349 KL final water tank, shows no RO plant (it pumps to WTP-4), and supplies Academic Block 2, the Ganga hostels and Academic Block 3.

WTP-03 has two 35 KL raw water tanks, 5 KL flash mixing, 15 KL flocculation, a 25 KL tube settler, ultrafiltration and two 35 KL UF storage tanks, with final tanks of 85 KLD; it is shown with RO Plant-1 (1,500 LPH) and RO Plant-2 (3,000 LPH) and serves the same buildings as WTP-01. **WTP-04** is fed from WTP-2 through the same treatment train, ends at its own final water tank, is shown with RO Plant-3 (4,000 LPH) and supplies the Vedavathi hostel. Across the campus there are 5 RO plants with 10,000 LPH in total.

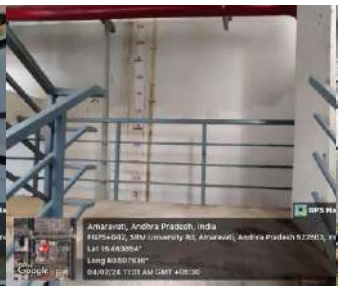

Tube settler tank


Flash mixer tank


Clarifier


Tank with control panel


Circular steel tank


Tank with level scale


Pressure filter vessels

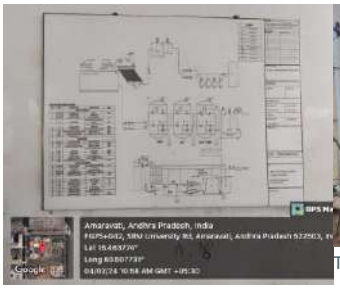

Filter vessels with manifold


Ultrafiltration unit


UF membrane columns


UF storage tank


Filters and UF unit



Process flow drawing



Treated tank pump set

Fountains and landscape water features

The campus also has landscape water features that are maintained as part of its water-body and distribution system.



Tiered fountain



Fountain with flower beds



Lotus channel

Wastewater recycling

SRM University-AP operates **three functioning sewage treatment plant (STP) units** dedicated to continuous wastewater recycling. Once treated, the recycled water is used for gardening, maintaining lawns and flushing toilets. A process flow drawing displayed at the plant reads “STP SBR technology 500 KLD”. The campus has four STPs with a combined capacity of 1,003 KLD. The photographs follow the water through the plant: inlet chamber, valve channel, treatment basin, sludge holding tank, sand filter vessels, filtration room and treated-water tanks.



Wastewater chamber



Channel with valves



Pipe pit



Treatment basin



Treatment basin, second view



Sludge holding tank



Sludge holding tank, second view



Sand filter vessels



Filtration room



Treated water tanks



Treated tank level scale



STP process flow drawing

Water-saving fixtures

Sensor-operated urinals and dual-flush toilets are installed on campus, consistent with all 3,793 taps carrying low-flow fixtures.



Sensor-operated urinals



Dual-flush system

EVENTS AND INITIATIVES

Three events on water and cleanliness

Three SDG 6 events were documented for FY 2024–25: an international conference on water sustainability, an online video competition on cleanliness and hygiene, and a volunteer campus clean drive. Together they recorded **315 participants** – 277 at the conference and 19 at each of the two cleanliness events – from external delegates and researchers to students and faculty.

3
SDG 6 events in FY 2024–25

315
participants across the three events

277
at the international conference

19 + 19
at the two cleanliness events

Water Elixir Meet (WE Meet) 2025

277 PARTICIPANTS · International conference

A three-day international conference that brought scientists, researchers, engineers and policymakers together to share research on water scarcity, pollution, climate-change impacts and policy, and on membrane technology, desalination and modern water-treatment technologies. Its stated objectives were to exchange knowledge and practices for water sustainability, foster collaboration between academia, industry and government, develop actionable strategies for sustainable water use at local, regional and global scales, and give young researchers a platform to present their work.

Keynote sessions were delivered by **three foreign delegates and six national experts**, alongside technical sessions, poster presentations and mentoring for early-career researchers. Outcomes include a compendium of research abstracts, a policy brief and new partnerships between academic institutions, industries and policy bodies on microplastic pollution, PFAS contamination, saltwater intrusion and circular water economies.

Participants numbered **277**: **126 external**, 27 faculty, 106 PhD scholars and others, 7 PG and 11 UG students. A WE Meet 2.0 with a larger international exhibition, thematic workshops on PFAS remediation, digital twins in water systems, microplastic monitoring and sustainable coastal management, a student-led innovation platform, and masterclasses and bootcamps.


Technical session


Auditorium session


Delegates in session


Conference stage


Presentation on screen

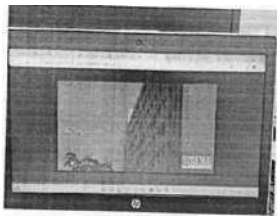

Speaker at the podium

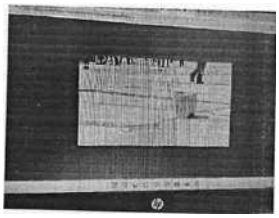
Swachh Bharat Abhiyan – Swachatha

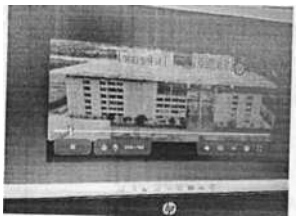
19 PARTICIPANTS · Awareness programme

An awareness programme in line with the objectives of the Swachh Bharat Abhiyan, held as an online video competition on cleanliness and hygiene. Students made short videos of up to two minutes, individually or in groups of up to five, on keeping university spaces clean. The Abhiyan's aims include ending open defecation, better solid-waste management, cleanliness and hygiene in public spaces, community participation, stronger sanitation infrastructure, awareness of handwashing, waste disposal and toilet use, and empowering local bodies.

A panel of judges reviewed the entries for creativity, relevance and impact, and first and second prizes were awarded. Student response was enthusiastic and reflected the core values of the Swachh Bharat Abhiyan.


Cleanliness video


Cleanliness video


Cleanliness video


Cleanliness video

Campus Clean Drive

19 PARTICIPANTS · Cleaning drive

A volunteer cleaning drive to spread awareness about cleanliness and public hygiene and to keep the campus premises clean. Participants – 18 UG students and 1 faculty member – swept paths and open spaces and collected waste. Outcomes: students gained awareness of public hygiene, and the surroundings were cleaner.


Sweeping garden paths


Collecting waste

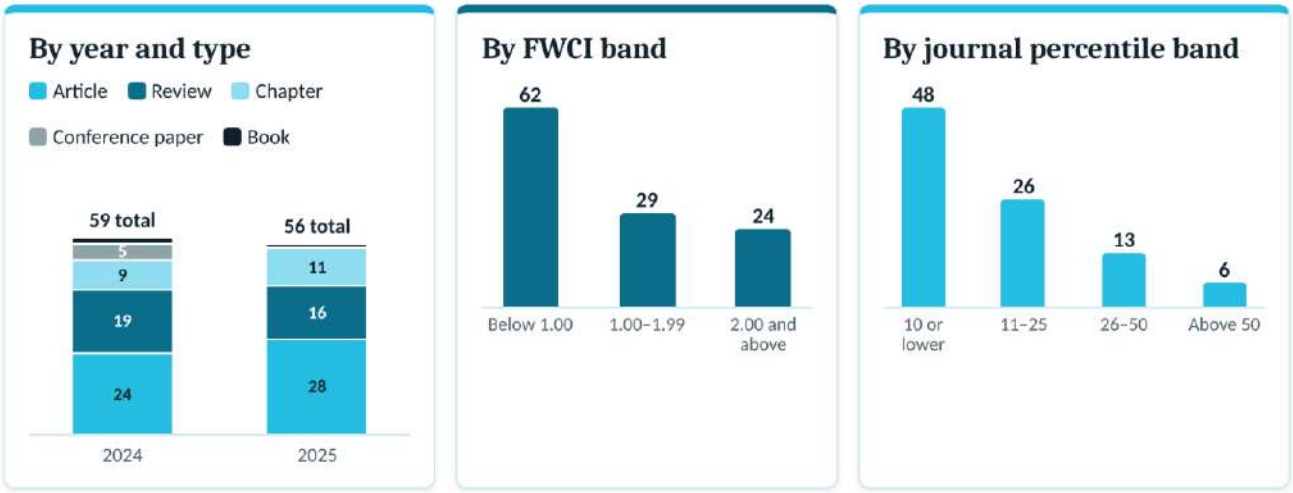

Cleaning open spaces


Volunteers at work

RESEARCH AND PUBLICATIONS

SDG 6 research output, 2024–2025

SRM University-AP has **115 publications** under SDG 6 for 2024–2025: **59 dated 2024 and 56 dated 2025**. By type they are **52 articles, 35 reviews, 20 book chapters, 5 conference papers and 3 books**. The topics span groundwater quality and salinity, fluoride and arsenic in drinking water, wastewater and greywater treatment, microplastics, membranes and photocatalysis, rainwater harvesting and menstrual hygiene.



CITATION IMPACT AND JOURNAL QUALITY

Field-Weighted Citation Impact (FWCI) of 1.00 equals the world average for similar publications; values above 1.00 mean the output has been cited more than average.

115 SDG 6 publications, 2024–2025

52 with FWCI above 1.00

24 with FWCI of 2.00 or more

9 with FWCI of 5.00 or more

20.91 highest FWCI (2025 chapter on biowaste-derived biochars)

Of the 93 outputs with a journal metric, **48** appear in journals at percentile 10 or lower and a further **26** at percentile 11 to 25, so 74 of the 93 sit within the first quarter on this measure. The remaining 22 outputs – 16 chapters, 3 conference papers and 3 books – have no journal metric. A smaller percentile number means a higher-ranked journal (for example a CiteScore of 38.2 carries percentile 1).

FEATURED SDG 6 PUBLICATIONS

Twelve of the most directly relevant publications are listed below with year, journal CiteScore, percentile and FWCI where available (– means none, as for most chapters). The other 103 SDG 6 outputs are counted in the 115.

#	Title and authors	Type · year	CiteScore	Percentile	FWCI
1	**Groundwater quality assessment using water quality index and principal component analysis in the Achnera block, Agra district, Uttar Pradesh, Northern India** Ali, S. et al.	Article · 2024	6.7	11	11.34
2	**Safeguarding drinking water: A brief insight on characteristics, treatments and risk assessment of contamination** Kundu, D. et al.	Review · 2024	5	30	1.43
3	**Groundwater Salinity Across India: Predicting Occurrences and Controls by Field-Observations and Machine Learning Modeling** Sarkar, S. et al.	Article · 2024	18.1	7	2.00
4	**Occurrence and Distribution of Fluoride in Groundwater and Drinking Water Vulnerability of a Tropical Dry Region of Andhra Pradesh, India** Yasaswini, G. et al.	Article · 2024	6	13	1.83

#	Title and authors	Type · year	CiteScore	Percentile	FWCI
5	**Recent advancement in microplastic removal process from wastewater - A critical review** Dayal, L. et al.	Article · 2024	10.6	13	7.38
6	**Enhancing access to rainwater harvesting in regions with saline groundwater** Puppala, H. et al.	Article · 2025	3.3	37	1.07
7	**Community level vulnerability of groundwater fluoride contamination and exposure by the application of multi-criteria model** Das, K. et al.	Article · 2025	12.8	10	1.08
8	**Integrated assessment of fluoride occurrence and groundwater usability: a critical concern for drinking water sustainability and irrigation in semi-arid region of West Bengal, India** Das, K. et al.	Article · 2025	3.3	37	0.64
9	**Water pollution (SDG 6.3)** Mukhopadhyay, A. et al.	Chapter · 2024	–	–	7.64
10	**Balancing Safety and Sustainability: Sustainable Approaches to Reducing Disinfection By-Products in Drinking Water** Koley, S. et al.	Chapter · 2025	2.2	63	1.34
11	**Healthy menstruation: Myth or reality? Insights into urban slums of Vishakhapatnam city, India** Pandey, G. et al.	Article · 2025	3.1	39	0.26
12	**Harnessing bio-nano hybrid column for sustainable treatment of Reverse Osmosis Concentrate: A decentralized water treatment approach** Priyadarshi, G.V. et al.	Article · 2025	9.6	7	0.38

CONCLUSION

Progress towards clean water and sanitation

Across water supply, treatment, reuse, awareness and research, SDG 6 at SRM University-AP is an infrastructure-led effort backed by campus events and a substantial body of water research.

Water infrastructure. Five water treatment plants (1,350 KLD), four sewage treatment plants (1,003 KLD) and five RO plants (10,000 LPH) are in place.

Efficiency and reuse. All 3,793 taps have low-flow fixtures, 11 rainwater harvesting systems serve the reported rooftop area, and about 42% of wastewater is treated and reused.

Conservation works. The campus has rainwater recharge pits, borewell recharge points, tanks and bunds, four charted treatment plants, wastewater recycling at working STPs and water-saving fixtures.

Awareness. Three events – a three-day international water conference and two cleanliness activities – recorded 315 participants.

Research (2024–2025). 115 SDG 6 publications, 52 of them with FWCI above the world average and 48 of 93 in journals at percentile 10 or lower.

SDG 7: Affordable and Clean Energy

Solar and biogas on campus, an external energy audit, energy events, research and clean-energy startups

INTRODUCTION

Energy for the campus and beyond

Sustainable Development Goal 7 calls for **access to affordable, reliable, sustainable and modern energy for all**. It rests on three connected ambitions: universal access to dependable energy services, a substantially larger share of renewable energy in the global energy mix, and a faster rate of improvement in energy efficiency. These are supported by international cooperation, research, and investment in clean energy infrastructure and technology. Because energy underpins education, health, industry and climate action, progress on this goal enables progress on almost every other.

Universities contribute to SDG 7 in three ways: through how they power and manage their own campuses, through the knowledge they create and teach, and through the people and ideas they send into the wider energy sector. SRM University-AP follows the goal in principle across all three. It treats clean energy generation and responsible energy use as part of campus operations, brings energy topics into teaching, industry exposure and research, and encourages students and young entrepreneurs to develop energy solutions. The sections that follow show how this commitment is put into practice.



Rooftop solar panels on multi-storey campus buildings (aerial view)



Solar panels on a campus building rooftop (aerial view)

HIGHLIGHTS

532 kW
rooftop solar PV capacity, grid-tied at the MV panel

6,22,714 kWh
solar energy generated, Apr 2024–Mar 2025

3.2 %
share of solar in total energy consumption

1,82,86,800 kWh
electricity consumed from the utility

1,91,69,459 kWh
total energy consumed (utility + diesel generator + solar)

13
energy conservation proposals identified by the audit

16,50,964 kWh
estimated annual energy saving if all proposals are adopted (9 % of electrical energy)

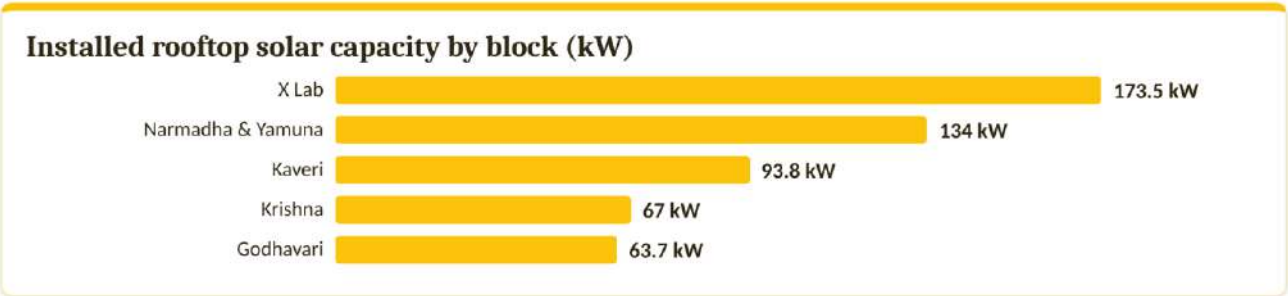
Rs. 170.0 Lakhs
estimated annual energy cost saving from the proposals

CAMPUS ENERGY

Solar, supply and consumption

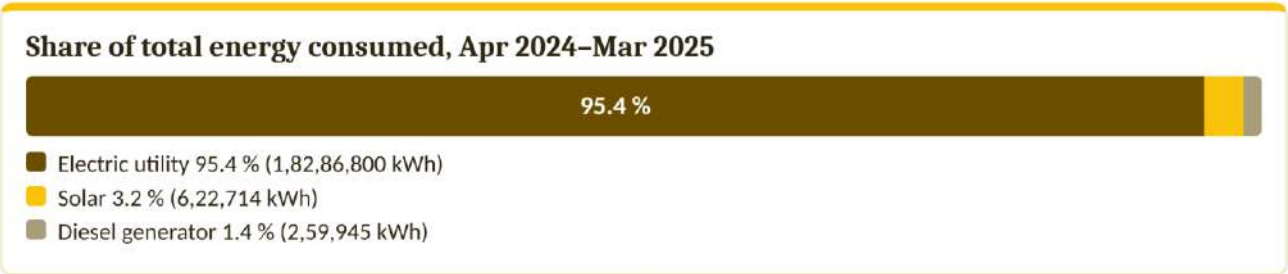
Rooftop solar PV installation

The campus runs a 532 kW rooftop solar photovoltaic plant on the roofs of most hostel and laboratory blocks, synchronised with the medium-voltage (MV) panel with separate metering. Capacity is spread over five blocks.



Solar generation is below the plant's design value, and regular panel cleaning and full use of the power generated are recommended.

WHERE CAMPUS ENERGY COMES FROM



Thermal energy is reported separately: LPG 1,43,070 kg (cooking) and diesel 3,35,502 litres, of which 78,980 litres for generators and 2,56,522 litres for transport.

WHEELING TO THE GRID



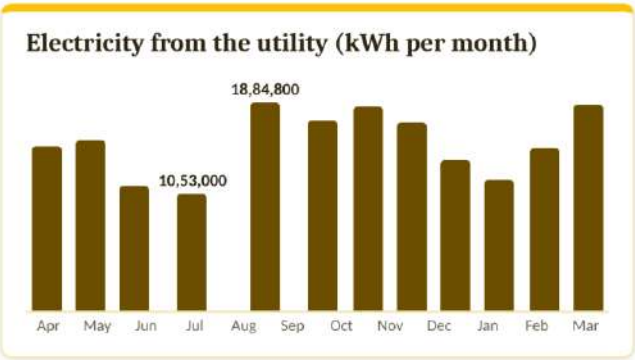
Wall-mounted electrical enclosures at the wheeling-to-grid site

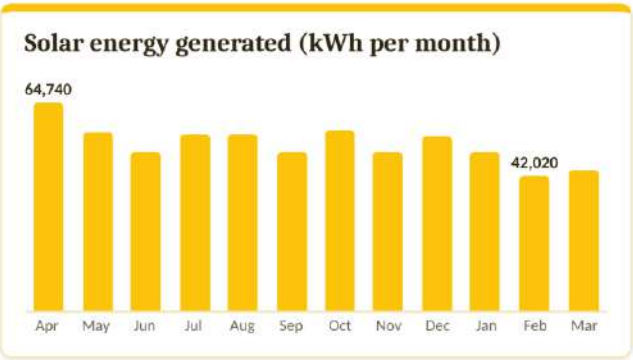


Electrical control panel with a glass-fronted meter window

CAMPUS ENERGY · MONTHLY PROFILE

Monthly energy profile, Apr 2024–Mar 2025





Consumption peaked in Aug-24 (18,84,800 kWh) and was lowest in Jul-24 (10,53,000 kWh). Solar generation was highest in Apr-24 (64,740 kWh) and lowest in Feb-25 (42,020 kWh).

ANNUAL ENERGY CONSUMPTION AND GENERATION, 2024–25

Month	Electricity (kWh)	Solar (kWh)	LPG (kg)	Diesel – DG (L)	Diesel – transport (L)	Diesel – total (L)
Apr-24	14,91,200	64,740	11,590	5,300	26,643	31,943
May-24	15,50,800	55,237	12,635	23,290	29,728	53,018
Jun-24	11,30,000	49,117	6,213	4,270	18,854	23,124
Jul-24	10,53,000	54,656	7,581	6,590	7,742	14,332
Aug-24	18,84,800	55,066	12,179	11,820	11,703	23,523
Sep-24	17,18,800	49,362	15,086	3,070	14,017	17,087
Oct-24	18,55,000	56,211	14,279	7,890	29,040	36,930
Nov-24	17,12,000	49,137	14,421	1,020	25,900	26,920
Dec-24	13,59,400	54,370	9,994	3,630	29,864	33,494
Jan-25	11,85,400	49,215	12,103	6,450	18,729	25,179
Feb-25	14,74,000	42,020	12,474	4,030	22,421	26,451
Mar-25	18,72,400	43,583	14,516	1,620	21,881	23,501
Total	**1,82,86,800**	**6,22,714**	**1,43,070**	**78,980**	**2,56,522**	**3,35,502**

Biogas for cooking

A biogas plant of nearly 6.0 m³ converts cooked rice, vegetable cuttings and unused vegetable waste from the mess and canteen into biogas through anaerobic digestion. The waste is crushed and mixed with water into a slurry before feeding. The gas is used to cook food in the Annapurani Mess.



Two workers carrying a blue crate of food waste



Gas burner with blue gas pipes in a kitchen area



Biogas plant building with a blue roof and mesh walls



Green dome-shaped cover beside a pile of dark material, outdoors

ENERGY AUDIT FINDINGS

What the external energy audit found

Data period: April 2024 to March 2025.

AUDIT AT A GLANCE

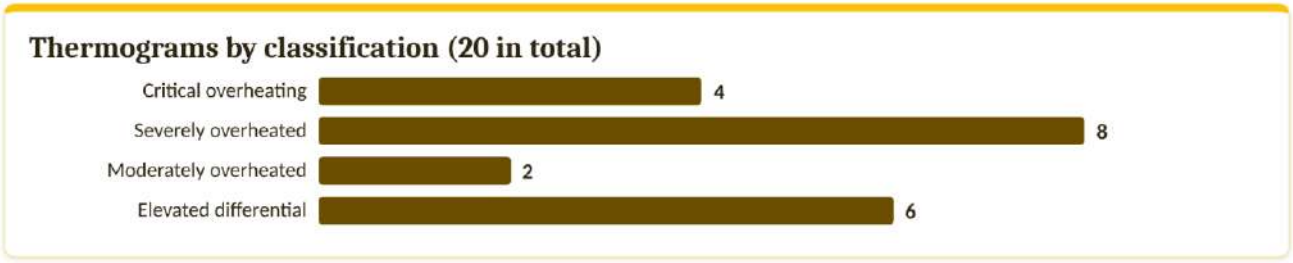
KEY OBSERVATIONS

Audited by	RAM-KALAM Centre for Energy Consultancy and Training, Coimbatore
Audit dates	30 June and 1, 2 & 3 July 2025
Scope	Electrical and thermal energy use: consumption pattern, 13 energy conservation proposals (ENCON), best operating practices, 24-hour measurements on two 2,000 kVA transformers, load-point measurements and infra-red thermography
Supply	Tariff 2A1; contracted demand 4,999 kVA; Rs. 6.95/kWh plus Rs. 475/kVA/month fixed charges
Electricity cost	Rs. 1,886.5 Lakhs for 1,82,86,800 kWh; average Rs. 10.28/kWh (taken as Rs. 10.30/kWh)
Backup power	Diesel generators of 2,000, 1,500 (two) and 1,000 kVA

- **Solar:** 532 kW plant generated 6,22,714 kWh (3.2 % of energy); the audit finds this lower than the design value (expected 6,38,400 kWh at 4.0 sun-hours/day for 300 days) and notes that monthly panel cleaning is already practised.
- **Power factor:** 0.99 to 1.00 in every month; recorded demand ranged from 2,744 to 4,447 kVA against 4,999 kVA contracted.
- **Fans and lighting:** most ceiling fans are BLDC (average 35 W per fan at maximum, a reduction of more than 50 %); all street lights are LED; indoor tube lights are being converted to LED in phases.
- **Air-conditioning:** all air-conditioned rooms are set at 24 °C per BEE norms; 48 of the 102 air handling units were running at audit.
- **Capacitors:** 709 kVAr of the 3,044.2 kVAr connected was found worn out and not injecting rated current.

Infra-red thermography

The audit team imaged transformers, panels, chillers and pump motors with a thermal imager at an ambient temperature of 29 °C and classified each reading. Of the 20 thermograms in the report, 4 are classed critical overheating, with chiller-panel incoming and transformer phase readings among those flagged for prompt attention.



BEST OPERATING PRACTICES RECOMMENDED

- Operate transformers near 50 % load; replace with IS-1180 star-rated units in future
- Test capacitors regularly; convert plain capacitors to reactor-coupled filters
- Install an Energy Management System (EMS) with online monitoring
- Fit digital energy meters on every building sub-board
- Replace remaining conventional fans with BLDC fans in phases
- Form a Green Energy Team of faculty and student volunteers
- Display monthly electricity use and cost in public areas
- Use cylinder tags to track LPG consumption

ENERGY CONSERVATION PROPOSALS

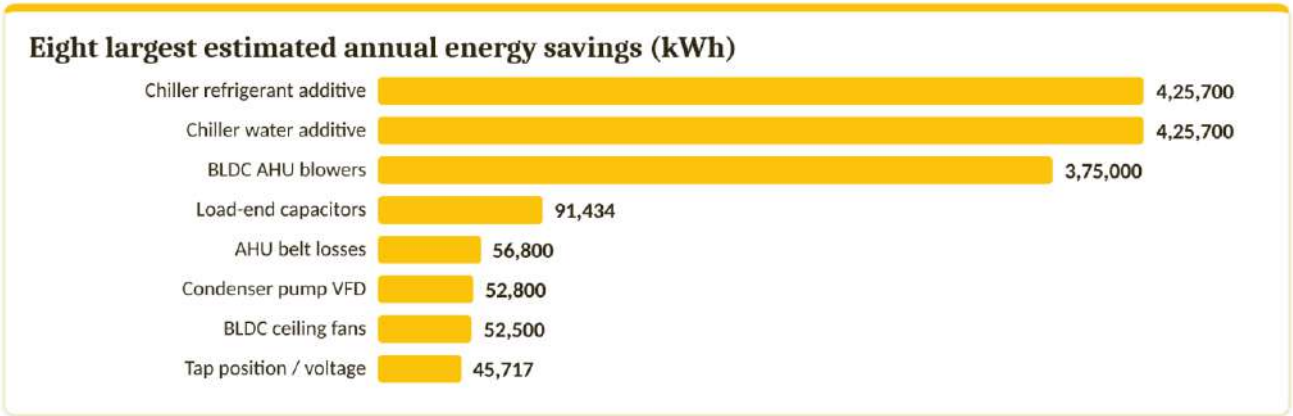
Thirteen steps to cut electricity use

The audit worked out 13 proposals. Together they could reduce annual electricity use from **1,82,86,800 kWh to 1,66,35,836 kWh**, a saving of **16,50,964 kWh (9 % of electrical energy)** and **Rs. 170.0 Lakhs** a year. Seven of the 13 need no investment or an investment under Rs. 7,00,000. All figures are annual estimates.

#	Proposed measure	Basis of saving	Energy saving (kWh)	Financial saving (Rs.)	Initial investment (Rs.)	Simple payback
1	Increasing the Energy Production from the Roof Top Solar PV System using regular Panel Cleaning Schedule	1 % on Solar Energy Generation	6,227	64,138	Zero Cost	Immediate
2	Energy Savings in the AHU Blowers using Condition Monitoring & Regular Filter Cleaning	2 % of AHU Energy Consumption	15,200	1,56,560	Zero Cost	Immediate
3	Ensure Maximum Power Generation from Solar PV Plant & Reduction of Active Energy Consumption from the EB Utility	Better Utilization of Solar Energy	15,686	1,61,566	Zero Cost	Immediate
4	Reduction of Active Energy Consumption & Self-loss on the Worn-out Capacitors in the Electrical Distribution Network	20 W/kVAr on Capacitor Power	42,600	4,38,780	2,80,000	0.6 Years
5	Energy Saving in Primary Pump by Converting the EE Pumps with Closed Loop VFD Automation	20 % on Primary Pump Consumption	45,600	4,69,680	6,00,000	1.3 Years
6	Reduction of Higher Input Line Voltage to Standard Value by Adjusting the Tap Position at the Secondary Side	0.25 % of Electrical Consumption	45,717	4,70,885	Zero Cost	Immediate
7	Replacement of Existing Conventional Ceiling Fans into EC BLDC Fans	50 % on Fans Load	52,500	5,40,750	9,00,000	1.7 Years
8	Energy Conservation through Closed Loop Common VFD Automation for Condenser Pumps in Utility I Water Cooled Chillers	20 % on Condenser Pump Consumption	52,800	5,43,840	4,00,000	0.74 Years
9	Reduction of Mechanical Transmission Losses in Belt Driven AHU Blowers & Condition Monitoring of the Belt Slippage Loss	12 % of Belt Driven AHU Blowers	56,800	5,85,040	6,80,000	1.2 Years
10	Reduction of Cable Losses and Active Power Consumption using Load End Capacitor Compensation (At DB Level)	1 % on Electrical Load	91,434	9,41,770	6,00,000	0.64 Years
11	Replacement of Conventional Blower Fans into Electronically Commutated BLDC Fans in the AHUs	40 % of Electrical Consumption	3,75,000	38,62,500	1,34,25,000	3.48 Years
12	Reduction of Energy Consumption in Chiller Units through Active Refrigerant Additive for Removing Oil Fouling	10 % of Chiller Consumption	4,25,700	43,84,710	–	–
13	Reduction of Energy Consumption in Chillers using Heat Transfer Water Additives in the Chilled Water System	10 % of Chiller Consumption	4,25,700	43,84,710	–	–
	Total		**16,50,964**	**1,70,04,929**	**–**	**–**

WHAT THE SAVINGS ADD UP TO

- Two chiller additive proposals each save 4,25,700 kWh, the largest single items.
- Replacing AHU blower fans with BLDC fans saves 3,75,000 kWh.
- Six proposals are rated Zero Cost with immediate payback.



EDUCATIONAL INITIATIVES AND EVENTS

Ten events across four departments

Ten SDG 7 events were held between July 2024 and April 2025: six talks, workshops and demonstrations and four industrial visits.

10
SDG 7 events: 6 talks, workshops and demonstrations and 4 industrial visits

4
departments: EEE, ECE, Mechanical Engineering and Environmental Science and Engineering

Rs. 1,25,000
external funding for the 5-day Skill Enhancement Programme

Jul 2024–Apr 2025
period covered by the events

WORKSHOPS, EXPERT TALKS AND DEMONSTRATIONS

Skill Enhancement Programme on Renewable Energy and Smart Transportation

Department of Electrical and Electronics Engineering
22–26 Jul 2024 (5 days) · Participants 10–12 external, 21 PhD scholars, 4 UG

A hybrid five-day programme for faculty, PhD scholars and PG students with sessions on advanced power converters, microgrid operation through real-time simulation, charging infrastructure and battery state-of-charge estimation, renewable-source control and grid integration, and bidirectional power conversion for energy storage. Resource persons came from IIT Hyderabad, NIT Warangal and industry.


Participants seated at computers in a hall during a session


A presentation slide on screen with participants at workstations


Participants at computer workstations facing a projected screen


Participants and a speaker at a projected screen in a computer lab

AMPTS III Instrument Demonstration

Department of Environmental Science and Engineering
13 Sep 2024 · Participants 12 (3 faculty, 5 PhD, 4 PG)

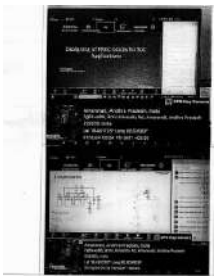
A demonstration of the Automatic Methane Potential Test System for researchers, showing how biogas and methane potential are measured, how retention times are optimised and how different biomass substrates perform in anaerobic fermentation.


Participants standing in a laboratory beside bench-top equipment

Design of Power Management Integrated Circuits (PMICs) for SoC Applications

Department of Electronics and Communication Engineering
1 Dec 2024 (online) · Participants 40 (4 faculty, 14 PhD, 22 UG)

A guest lecture on designing PMICs for system-on-chip applications covering voltage regulation, power sequencing, dynamic power management and energy efficiency across multiple power domains.



Screenshots of the online session showing slides on PMIC blocks for SoC and LDO compensation

Hydrogen Gas as the Future Fuel for Sustainable Power Generation

Department of Mechanical Engineering
24 Feb 2025

An invited talk by Prof. P. S. Robi (IIT Guwahati) on hydrogen as a fuel for sustainable power generation and the use of machine learning to model hydrogen generation by chemical reactions. It addressed high production costs, storage limitations and research collaboration among academia, industry and policymakers.



Speaker presenting at a screen to participants seated at computers



Participants seated around a table in a seminar room

Battery Modeling – Talk under the Power and Control Club

Department of Electrical and Electronics Engineering
26 Mar 2025 · Participants 24 (UG)

A talk by Dr Satyavir Singh on battery parameter and capacity estimation: equivalent-circuit and data-driven models, state of charge and state of health, and their use in battery management systems for electric vehicles and renewable energy storage.



Group photograph of participants standing in a laboratory space

Active Power Decoupling Integrated Switched Boost Inverter

Department of Electrical and Electronics Engineering
4 Apr 2025 · Participants 23 (3 faculty, 14 PhD, 6 UG)

A guest lecture by Dr Ravindranath Adda (IIT Guwahati) on reducing low-frequency ripple, improving power density and efficiency, and grid-connected applications of the switched boost inverter in renewable energy systems.



Participants seated around a conference table



Lecture room with a projected screen and participants seated at a long table

WHY THESE SESSIONS MATTER FOR SDG 7

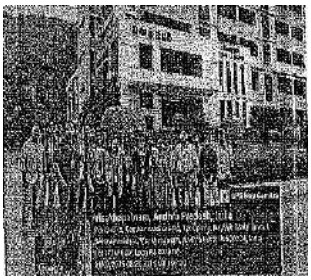
The sessions span the energy chain from generation and storage (hydrogen, batteries, biogas measurement) to power electronics and grid integration, giving faculty, research scholars and undergraduates direct access to current methods and practitioners.

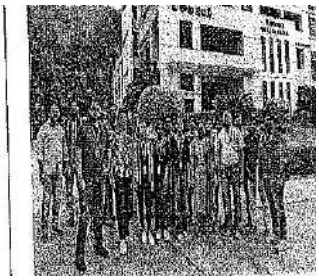
INDUSTRIAL VISITS

Industrial Visit to Bhabha Atomic Research Centre (BARC)

Department of Electrical and Electronics Engineering
20–21 Feb 2025 (2 days) · Participants 31 (2 faculty, 2 staff, 5 PhD, 22 UG)

Students visited a 192/11 kV substation, the research reactor facilities, a pulse power laboratory for plasma generation, and the control room and high-end computing facilities, learning about nuclear science and its role in the country's energy sector.


Participants standing outdoors in front of a multi-storey building


Group of participants standing outdoors

Industrial Visit: Thermal Power Station, Vijayawada

Department of Mechanical Engineering
12 Mar 2025 · Participants 32 (2 faculty, 2 PG, 28 UG)

Students observed boiler operations, turbine functioning, coal handling and environmental management, including ash handling and flue gas desulfurization, and spoke with plant engineers about efficiency and sustainability measures.



Group wearing safety helmets standing in an industrial area



Group standing in front of a parked vehicle among trees

Industrial Visit: Reliance Industries KGD6 Oil & Gas, Andhra Pradesh

Department of Mechanical Engineering
22 Mar 2025 · Participants 21 (5 faculty, 1 PG, 15 UG)

A visit to observe offshore and onshore oil and gas production, including floating production storage and offloading systems, wellhead platforms, gas separation units and safety and environmental practices, with discussion of career opportunities in the sector.



Group of visitors posing together outdoors



Three people standing before a Reliance KG D6 signboard

Thermal Power Plant Overview and Plant Visit, Dr. NTTPS, Ibrahimpatnam

Department of Electrical and Electronics Engineering
2 Apr 2025 · Participants 32 (2 faculty, 30 UG)

Students studied power plant layout, equipment ratings, boiler, turbine, exciter and turbo-alternator with its control centre, and saw the 220 kV grid interconnection with a 400 kV substation, linking theory to practical power generation.



Group standing in front of a building with a training institute signboard



Group members wearing safety helmets

COMMUNITY OUTREACH ACTIVITIES

Taking energy ideas beyond the campus

2
outreach activities, Nov–Dec 2024

360
participants at ChemZeal 3, of whom 315 were external visitors

41
participants at the Nellore training, of whom 33 were external

ChemZeal 3 – "Embark on an Exciting Journey into the World of Chemistry"

Department of Chemistry · APJ Abdul Kalam Auditorium
30 Nov 2024 · Participants 360 (315 external, 22 faculty, 17 PhD, 6 PG)

An annual day-long outreach event that brought school and college students to the campus for science demonstrations, an exhibition of experiments and lab tours. Its keynote, **"How Chemistry Helps to Generate and Store Clean Energy"** by Prof. Vijayamohanan Pillai, traced the shift from conventional to sustainable energy and covered rechargeable lithium-ion and sodium-ion batteries and the role of hydrogen. A second talk by an industry researcher in energy storage discussed careers in the field.

The department described the event as drawing a huge positive response from both students and teachers, and plans to continue it in the years to come.



Invited speaker addressing the auditorium beside seated guests



A senior speaker at an exhibition poster, with students gathered around



Two students in lab coats presenting an exhibition poster



Large group of participants seated on a tiered auditorium staircase

Training of Rural Women Entrepreneurs, Nellore – CSR ADITRI

Directorate of Entrepreneurship & Innovation "CSR ADITRI Team" · Nellore, Andhra Pradesh
29 Dec 2024 · Participants 41 (33 external, 8 staff)

An offline training session, 10:00 AM to 5:00 PM, for women entrepreneurs selected from earlier bootcamps under the CSR ADITRI project. It gave advanced training in **operating solar drying units** alongside sanitary pad manufacturing, with the aim of building technical skills, business management insight and sustainable, eco-friendly production practices.

Participants gained practical skills in running solar drying units and in manufacturing, supporting sustainable income generation and improved access to affordable sanitary products in rural communities.



Women participants seated under a shaded shelter listening to a speaker



Women participants seated in rows under a shaded shelter

RESEARCH AND PUBLICATIONS

SDG 7 research output, 2024–2025

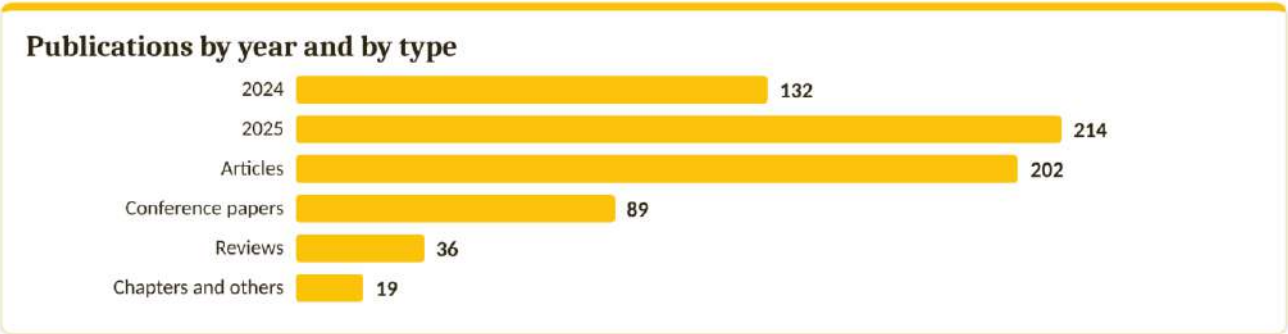
346
SDG 7 publications, 2024–2025

132
published in 2024

214
published in 2025

202
journal articles, with 36 reviews and 89 conference papers

SRM University-AP researchers published 346 documents in the SDG 7 category over 2024 and 2025. They cover hydrogen production and storage, solar photovoltaics, batteries and energy storage, microgrids and power electronics, and bioenergy. By type: 202 articles, 89 conference papers, 36 reviews, 17 book chapters, 1 book and 1 editorial.



SELECTED PUBLICATIONS

The twelve papers below were selected for their direct relevance to clean energy, with preference to those in high-percentile journals. A lower percentile number means a higher-ranked journal.

Year	Title and first author	Theme	Type	CiteScore	Percentile	FWCI	DOI
2024	**Direct Electroplating Ruthenium Precursor on the Surface Oxidized Nickel Foam for Efficient and Stable Bifunctional Alkaline Water ElectrolysisLi, C. et al.**	Hydrogen	Article	39.4	1	7.86	10.1002/adma.202403151
2024	**Spray cooling for hydrogen vehicle, electronic devices, solar and building (low temperature) applications: A state-of-art reviewGaneshKumar, P. et al.**	Hydrogen / Solar	Review	38	2	1.78	10.1016/j.rser.2023.113931
2024	**Emerging trends in cooling technologies for photovoltaic systemsMariam, E. et al.**	Solar PV	Review	38	2	1.64	10.1016/j.rser.2023.114203
2025	**Advancements in biomass waste conversion to sustainable biofuels via gasificationJoshua Abioye, K. et al.**	Bioenergy	Review	19.6	4	5.01	10.1016/j.cej.2024.159151
2025	**Green ammonia as hydrogen carrier: current status, barriers, and strategies to achieve sustainable development goalsVigneswaran, V.S. et al.**	Hydrogen	Review	18.8	5	2.39	10.1016/j.scitotenv.2025.179646
2024	**Framework for strategic deployment of hybrid offshore solar and wind power plants: A case study of IndiaLuhaniwal, J. et al.**	Solar / Wind	Article	20.7	2	1.67	10.1016/j.jclepro.2024.144009
2024	**Thermographic inspections of solar photovoltaic plants in India using Unmanned Aerial Vehicles: Analysing the gap between theory and practicePuppala, H. et al.**	Solar PV	Article	17.6	2	0.31	10.1016/j.renene.2024.121694
2024	**Anion-Exchange Membrane Water Electrolyzers for Green Hydrogen Generation: Advancement and Challenges for Industrial ApplicationGhorui, U.K. et al.**	Hydrogen	Review	10.2	10	1.8	10.1021/acsaem.4c01585
2024	**Potential Benefits, Challenges and Perspectives of Various Methods and Materials Used for Hydrogen StoragePanigrahi, P.K. et al.**	Hydrogen	Review	9.5	14	3.82	10.1021/acs.energyfuels.3c04084
2025	**Exploring the Potential and Roadblocks of Marketable Energy-Storage Technologies for Renewable EnergySrivastava, M. et al.**	Energy storage	Review	6.5	32	1.12	10.1002/ente.202402405
2024	**A novel multi-port high-gain bidirectional DC–DC converter for energy storage system integration with DC microgridsVijayan, M. et al.**	Microgrids	Article	13.3	6	2.21	10.1016/j.est.2024.111431

Year	Title and first author	Theme	Type	CiteScore	Percentile	FWCI	DOI
2025	**Assessing Progress Toward SDG 7: A Threshold Analysis of Environmental Policy Stringency and Institutional Quality on Renewable Energy ConsumptionBadmus, J.O. et al.**	Energy policy	Article	13.6	2	1.23	10.1002/sd.70044

STARTUPS AND INNOVATION

Clean-energy startups under incubation

3
startups, all with SDG 7 as the primary SDG (incubation May 2024 – Jan 2026)

2
founded by students (GREEN X and VOLTA)

1
externally founded company (Vindra Renewables Private Limited)

Nil
funding or revenue reported by any of the three

GREEN X

Partnering with industries and communities to provide cost-effective renewable energy solutions while offering investors monthly returns on their investments.

Sector	Renewable energy solutions
Founder	Mr. Srinivas Reddy (student)
Registration	Under process
Incubation	17.05.2024 to 17.11.2025
Duration	–
Funding / revenue	Nil
Patents	Nil

Vindra Renewables Private Limited

Manufacturing of solar panels, batteries and related products.

Sector	Renewables
Founder	Mr. Vishnu Raj (external)
Registration	Pvt Ltd, incorporated 12 Aug 2020
Incubation	19.06.2024 to 19.06.2025
Duration	365 days
Funding / revenue	Nil
Patents	Nil

VOLTA

Working on EV batteries and hydrogen fuel cells.

Sector	Manufacturing
Founder	Mr. Harsha (student)
Registration	Under process
Incubation	23.01.2025 to 23.01.2026
Duration	365 days
Funding / revenue	Nil
Patents filed	–

CONCLUSION

Progress towards affordable and clean energy

SRM University-AP's work on SDG 7 runs through its campus, classrooms, research and community. The 532 kW rooftop solar plant and the biogas system supply clean energy on campus, while an external energy audit has measured where the university's electricity goes and set out 13 concrete steps that could cut annual electricity use by 9 %. The audit also shows where the next gains lie: raising solar output towards its design value and acting on the thermography and capacitor findings.

Beyond the campus, ten events brought experts and industrial sites to students and researchers, two outreach activities carried energy ideas to school students and rural women entrepreneurs, 346 publications added to the energy literature, and three startups are working on renewables, batteries and hydrogen fuel cells. The priorities ahead are to record the output of the biogas and wheeling systems, to implement the audit's proposals, and to report energy data on a single consistent basis each year.

SDG 8: Decent Work and Economic Growth

Placements and employability, workplace policies, events, outreach, research and startups

INTRODUCTION

Work, workplace and enterprise

Sustainable Development Goal 8 calls for sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all. It joins together questions that are often treated separately: whether people can find meaningful work, whether workplaces are safe and fair, and whether economies leave room for new enterprises and ideas.

SRM University-AP contributes to this goal through three connected strands. It prepares students for working life by building employability and connecting them with employers and alumni. It follows fair-workplace principles for its own staff through a written code of conduct that stresses safety, equal opportunity and respect. And it encourages entrepreneurship by supporting students and faculty who wish to turn ideas and research into ventures. The sections that follow set out the evidence for each strand.

Employability
Skills, careers and connections to employers and alumni

Decent workplace
Safety, equal opportunity and respect for every employee

Entrepreneurship
Ideas, research and ventures taken towards the market

HIGHLIGHTS

353
students placed in Fortune 500 / Nifty-50 companies, FY 2024–25

337
students placed in startups, FY 2024–25

487
companies that visited for placement

13
employability training programmes

22
SDG 8-mapped events and sessions, Jul 2024 – Jun 2025

1
community outreach training session, 25 Jan 2025 (70 attendees)

84
publications tagged to SDG 8, 2024–2025

1
incubated startup, incubation 2024–25

PLACEMENTS AND EMPLOYABILITY

Placement outcomes, FY 2024–25

Placement data covers FY 2024–25 (1 Apr 2024 – 31 Mar 2025).

353
placed in Fortune 500 / Nifty-50 companies
Male 236 · Female 117

337
placed in startups
Male 221 · Female 116

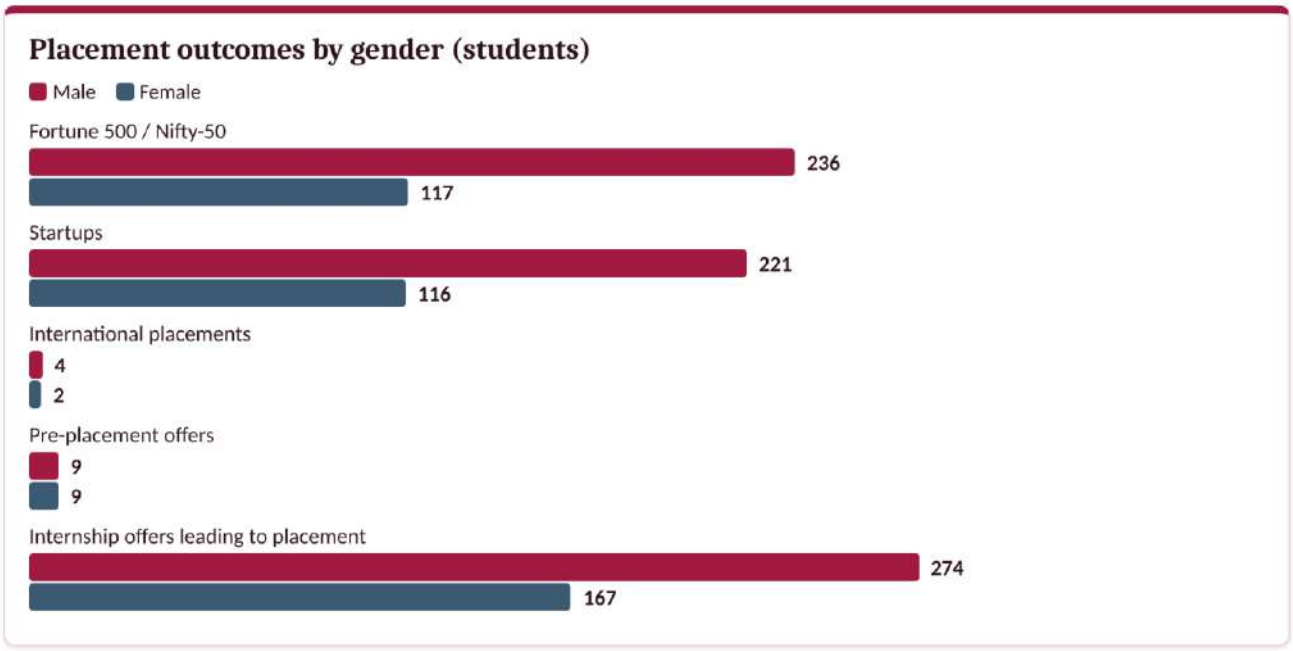
375
students with multiple offers
39.14% · Male 236 · Female 139

1.67
average offers per student
Male 1.64 · Female 1.73

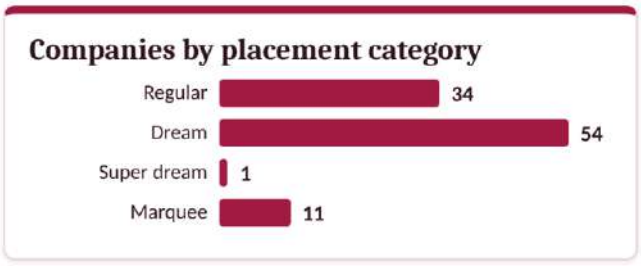
441
internship offers leading to placement
Male 274 · Female 167

18
pre-placement offers received
Male 9 · Female 9

Women's share of Fortune 500 / Nifty-50 placements is **33.1%** (117 of 353) and of startup placements **34.4%** (116 of 337).



Of the **487 companies** that visited for placement, 368 were repeating recruiters, 116 were first-time visitors and 32 were international companies. By placement category, 34 were regular, 54 dream, 1 super dream and 11 marquee.





PLACEMENT SUPPORT AND PARTNERSHIPS

6
international placements (4 male, 2 female)

116
webinars and workshops related to placements

13
employability training programmes

4
new MoUs established in the year

6
activities conducted under MoUs

0
companies blacklisted

DECENT WORKPLACE POLICIES

What the Workplace Code & Guidelines Policy provides

01
Safety comes first
Safety is described as non-negotiable, and every employee is required to follow the University's safety norms.

02
Equal opportunity
The University describes itself as an equal opportunity employer committed to respect and dignity for every individual.

03
Zero tolerance for harassment
Sexual harassment and discrimination on grounds of caste, creed or religion are not tolerated; harassment and retaliation are prohibited and complaints are investigated.

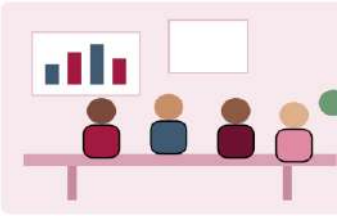
04
Smoke-free workplace
All office premises and buildings are no-smoking zones; smoking is allowed only at a designated area outside, and violations lead to disciplinary action.

05
Safe travel on campus
Valid driving licences are expected; two-wheeler riders must wear helmets and four-wheeler occupants seat belts.

06
Respectful conduct
Cordial relations among colleagues are expected; physical violence or assault is treated as serious misconduct.

07
Clean, orderly workplace
Employees keep their workstations and shared spaces clean and tidy, and conserve power and water.

08
Security and confidentiality
Suspicious movement is reported to Security; sensitive documents are locked away and destroyed only with approval; University information is kept confidential.



WORKING HOURS AND LEAVE PROCESS

Teaching staff work Monday to Friday, 9:00 AM – 5:00 PM. Non-teaching staff work Monday to Saturday, 9:00 AM – 5:00 PM, with the second Saturday of each month a holiday. Employees apply for leave in writing in advance and are referred to by the separate Leave Policy.

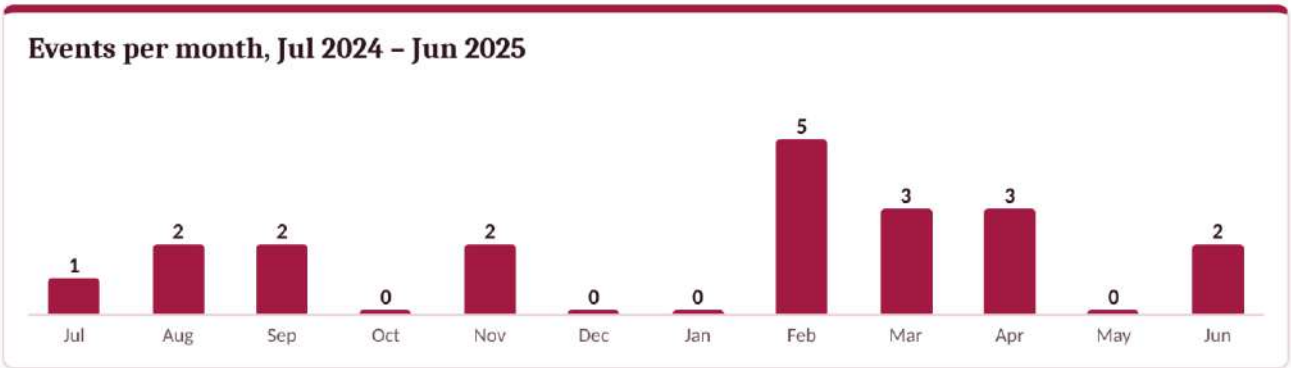
MATERNITY AND PATERNITY LEAVE

SRM University-AP has maternity and paternity leave policies that support work–life balance and an inclusive workplace.

EVENTS AND INITIATIVES

Twenty-two events, Jul 2024 – Jun 2025

The 22 events are grouped by theme: entrepreneurship and research commercialization (4), alumni and career guidance (4), career readiness and placement preparation (4), industry exposure and leadership talks (4), academic and awareness talks (4) and campus-life events mapped to SDG 8 (2).



#	Event	Date	Host	Participants
1	**Entrepreneurship: From Idea to Impact**	25 Nov 2024	Alumni Relations / PSB	1 faculty, 123 UG
2	**Workshop on Research Commercialization**	2–4 Jul 2024	Dean Research & IPR	221 (1 ext., 40 faculty, 180 PhD)
3	**Ameya'25 (management fest)**	–	Paari School of Business	550+ external participants, 18 faculty
4	**Techpreneur 2024 (technical expo)**	2 Sep 2024	Student Affairs	3,537
5	**Beyond Borders: Building Profile, Global Education and Expanding Networks**	27 Feb 2025	Alumni Relations / PSB	–
6	**Unlocking Success: The Art of Impressing Interview Panels**	4 Apr 2025	Alumni Relations	9 UG
7	**From SRM to Zuora: My Journey in AI and Automation**	17 Mar 2025	Alumni Relations	–
8	**What Worked for Me: My Journey to Landing a Marquee Placement**	11 Apr 2025	Alumni Relations / CSE	69 UG
9	**The Road Ahead: Career Paths After B.Tech**	19 Mar 2025	Civil Engineering	1 faculty, 13 UG in person + 2 online
10	**What's Next After B.Tech? Exploring Possibilities and Pathways**	13 Feb 2025	Civil Engineering	19 (1 external, 18 UG)
11	**Cracking the Placement Code**	2 Jun 2025	Student Affairs	900+ UG
12	**Kerala Students Immersion Program — Career Awareness Session**	5 Apr 2025 (programme 3–8 Apr)	Student Affairs	40 external
13	**Industrial Visit: Reliance Industries KGD6 Oil & Gas**	22 Mar 2025	Mechanical Engineering	21 (5 faculty, 1 PG, 15 UG)
14	**Industry Expert Talk — Waste Management and Decarbonization**	18 Sep 2024	Environmental Science & Eng.	48 (17 faculty, 15 PhD, 16 PG)
15	**Leadership Talk by Mr Kishan Sreenath (Orientation 2024–25)**	14 Aug 2024	Student Affairs	1,761 (1 external, 10 faculty, 250 PG, 1,500 UG)
16	**Student Tribe Founder Session**	28 Aug 2024	Student Affairs	–
17	**University Distinguished Lecture #20: Making Education a Reality and Ending Child Labour**	21 Feb 2025	University	250
18	**Guest Lecture: Choice Functions, Game Theory and Mechanism Design**	11 Jun 2025	Mathematics	23 (8 faculty, 15 PhD scholars)
19	**Clinical Psychology and its Scope in India**	–	Psychology	100 (50 external, 2 faculty, 48 UG)
20	**Vedic Science Book Exhibition**	18–20 Nov 2024	NSS Cell / Student Affairs	2,010 (245 PG, 1,765 UG)
21	**CINEVIE — Short Film Competition**	–	Cinemates / Student Affairs	1,025 (10 external, 15 faculty, 1,000 UG)
22	**INFINITUS 2025 — National-level Techno-Cultural Fest**	5–8 Feb 2025	Student Council / Student Affairs	–

1. Entrepreneurship: From Idea to Impact

Seminar · Directorate of Alumni Relations with Paari School of Business · C503, CV Raman Block
Date 25 Nov 2024 · Participants 1 faculty, 123 UG

Alumni interaction on what sets entrepreneurs apart and how an idea becomes an impactful business: understanding the scale of the problem, refining and promoting the idea, financial considerations, building a minimum viable product and testing product–market fit.

Speaker / guest: Mr Akhil Vulli, alumnus (BBA 2022), founder of AroundMe


Students seated at long desks in a large hall


Students standing and talking in the hall


Large group standing together, facing the camera


Speaker standing in front of a seated audience

2. Workshop on Research Commercialization

Workshop (3 days) · Dean Research & IPR Cell · ALC, Level 3, Admin Block
Date 2–4 Jul 2024 · Participants 221 (1 ext., 40 faculty, 180 PhD)

Three-day programme on taking research to market: research and its impact on society, the what, why and how of commercialization, a session with PhD scholars on converting research into business, an interaction with inventors holding granted patents, and a discussion on a Centre for Research Commercialization.

Speaker / guest: Mr Rakesh Sharma, mentor of ventures and start-ups


Participants seated at tables in a large hall


Hall view with attendees at tables


Attendees seated at round tables


Attendees at tables, one person standing

3. Ameya'25 (management fest)

Business fest · Paari School of Business · Mini Theatre, S, CV and W blocks
Participants 550+ external participants, 18 faculty

Management fest bridging classroom learning and practical business skills. Formal contests (The Magistrus, The Auctor, The Innovarix, The Impresario) and informal ones (IPL Auction, Biz Hunt, Mr & Ms Ameya, Open Mic) covered leadership, strategy, marketing, finance, HR and PR.

Sponsors named: Dream Abroad, Board Infinity, Simple Energy, Unstop, IDP


People standing outdoors, one speaking into a microphone


Students seated in groups at tables


Students in an auditorium with a quiz screen displayed


Large crowd of students gathered in an open atrium

4. Techpreneur 2024 (technical expo)

Technical expo · Directorate of Student Affairs · Atrium
Date 2 Sep 2024 · Participants 3,537

Technical showcase with 25 stalls from the Next Tech Lab, the Directorate of Entrepreneurship and Innovation and the Department of Research, spanning robotics, additive manufacturing, drones, 6G, battery materials, e-waste management and venture stalls.

Chief guests: Dr Krish Gopalakrishnan (Infosys co-founder), Mr Rohit Kapoor (CEO, Swiggy)



Visitors and stall members around a table



Visitors viewing a laptop demonstration at a stall



Visitor and stall member at an exhibit table



People viewing exhibits at a stall

ALUMNI AND CAREER GUIDANCE

5. Beyond Borders: Building Profile, Global Education and Expanding Networks

Alumni talk · Directorate of Alumni Relations with Paari School of Business
Date 27 Feb 2025

Alumni session on building an academic and professional profile, applying for higher studies abroad (statements of purpose, recommendation letters, scholarships) and networking through LinkedIn, fellowships and summits; global case competitions and fellowships were discussed.

Speaker / guest: Ms Manasa Thippavajjula, alumna (BBA 2022), pursuing a Master's at Imperial College London



Presenter at the front of a classroom, students seated



Students seated at desks in a classroom



Students seated with a presenter standing at the front

6. Unlocking Success: The Art of Impressing Interview Panels

Alumni talk · Directorate of Alumni Relations · Homi J Bhabha Block
Date 4 Apr 2025 · Participants 9 UG

Alumnus shared real-world career experience, interview preparation and professional development tips with business students, and encouraged taking part in real-time projects and internships, including through alumni-led start-ups.

Speaker / guest: Mr T. Venkata Krishna Vardhan, alumnus (BBA 2021)



Participants seated around a table in a meeting room



Two people standing at the front, one holding a framed item

7. From SRM to Zuora: My Journey in AI and Automation

Alumni talk · Directorate of Alumni Relations · Homi J Bhabha Block
Date 17 Mar 2025

Alumnus working in software engineering management described the move from campus to corporate life and a career in AI and automation, including agentic AI and its real-world applications.

Speaker / guest: Mr P. Indra Kiran Kumar, alumnus (B.Tech CSE 2022)



Students standing around a table, facing the camera



Speaker beside a projected slide, students seated

8. What Worked for Me: My Journey to Landing a Marquee Placement

Alumni talk · Directorate of Alumni Relations with the Department of CSE · S-205, SR Block
Date 11 Apr 2025 · Participants 69 UG

Alumna shared how internships, skill-building and interview preparation shaped her placement journey, and advised students to start placement preparation early and use university programmes to strengthen their profile.

Speaker / guest: Ms Patil Akanksha Kailash, alumna (B.Tech CSE 2024)



Speaker presenting to students seated in a classroom



Two people standing together holding a certificate

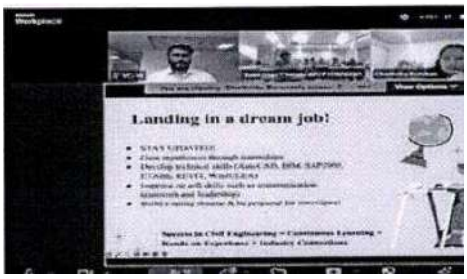
CAREER READINESS AND PLACEMENT PREPARATION

9. The Road Ahead: Career Paths After B.Tech

Alumni lecture (online) · Department of Civil Engineering · CV 202, CV Raman Block
Date 19 Mar 2025 · Participants 1 faculty, 13 UG in person + 2 online

Alumni webinar on academics, skills and career planning: balancing grades with practical understanding, soft skills, choosing final-year projects and internships, and deciding between a job, higher studies or entrepreneurship.

Speaker / guest: Ms Dhathrika Varma Borukati, alumna (B.Tech Civil 2023), MS student at UIUC



Screenshot of the online session showing a presentation slide


Students seated in a classroom facing a screen

10. What's Next After B.Tech? Exploring Possibilities and Pathways

Invited talk · Department of Civil Engineering · S212, SR Block
Date 13 Feb 2025 · Participants 19 (1 external, 18 UG)

Session on options after B.Tech — higher studies, jobs, entrepreneurship and research — the skills and certifications each path needs, and how alumni mentorship and networks can support informed decisions.

Speaker / guest: Mr Venkata Phani Bushan Gadde, alumnus; Master's in Management of Technology, NYU


Students seated in a classroom facing a speaker


Two men standing at the front beside a screen

11. Cracking the Placement Code

Motivation session · Directorate of Student Affairs · Tiered Classroom, Level 5, HB Block
Date 2 Jun 2025 · Participants 900+ UG

Session for final-year B.Tech students on the recruitment process using a 5W1H framework — company expectations, self-presentation, profile building, networking and proactive preparation for the placement season.

Counsellor: Mr Joel Gibbs


Large hall with a stage and screen at the front


Hall view with a speaker area ahead


Rows of seated students


Rows of seated students facing the front

12. Kerala Students Immersion Program — Career Awareness Session

Interaction session · Directorate of Student Affairs · Tiered Classroom, Level 5, HB Block
Date 5 Apr 2025 (programme 3–8 Apr) · Participants 40 external

Day-3 session on career planning using the SMART-goals framework, awareness of mental wellbeing in career choices, personalised action plans and an open question-and-answer round.

Counsellors: Ms Alekhya Sankara, Mr Joel Gibbs



Participants seated at long desks in a classroom



Participants seated at desks in a large room

INDUSTRY EXPOSURE AND LEADERSHIP TALKS

13. Industrial Visit: Reliance Industries KGD6 Oil & Gas

Industrial visit · Department of Mechanical Engineering · East Godavari, Andhra Pradesh
Date 22 Mar 2025 · Participants 21 (5 faculty, 1 PG, 15 UG)

Visit by third-year B.Tech students to offshore and onshore oil and gas facilities to see exploration, extraction and processing, safety and environmental practices, and to interact with industry professionals about careers. Faculty also explored internship and placement links.



Group of people posing together outdoors



Four people standing before a backdrop bearing the Reliance name

14. Industry Expert Talk — Waste Management and Decarbonization

Technical talk · Department of Environmental Science & Engineering · C-402, CV Raman Block
Date 18 Sep 2024 · Participants 48 (17 faculty, 15 PhD, 16 PG)

Talk on sustainable waste management, decarbonization of wastes and career prospects for M.Sc. environmental science students, with emphasis on academia–industry collaboration and technology transfer.

Speaker / guest: Dr Vijai Singhal, Director, Greenhub Systems; former Chief Environmental Engineer, RSPCB



Attendees seated in a classroom



Speaker standing at the front of the classroom



Speaker presenting to seated attendees

15. Leadership Talk by Mr Kishan Sreenath (Orientation 2024–25)

Leadership talk · Directorate of Student Affairs · APJ Abdul Kalam Auditorium
Date 14 Aug 2024 · Participants 1,761 (1 external, 10 faculty, 250 PG, 1,500 UG)

Orientation-week talk for incoming students on becoming a successful leader: taking ownership rather than playing the victim, lifelong learning, a growth mindset and building scalable solutions to real-world problems.

Speaker / guest: Mr Kishan Sreenath, Vice President, Powertrain, Volvo Group



Speaker on stage beneath a welcome banner


Two men on stage, one handing a framed item to the other

16. Student Tribe Founder Session

Leadership talk · Directorate of Student Affairs · APJ Abdul Kalam Auditorium
Date 28 Aug 2024

Founder talk on the realities of life beyond academics and the importance of intellectual, social and financial capital, with practical advice on building these resources and on networking.

Speaker / guest: Mr Charan Lakkaraju, founder of Student Tribe


Speaker at a podium on stage


Speaker at a podium beside a banner


Speaker at a podium on stage


Audience seated in the auditorium

ACADEMIC AND AWARENESS TALKS

17. University Distinguished Lecture #20: Making Education a Reality and Ending Child Labour

Distinguished lecture · University · SRM University-AP, Amaravati
Date 21 Feb 2025 · Participants 250

Lecture on the work of the M. V. Foundation for child rights and on ending child labour through education, covering the National Commission for Protection of Child Rights, child trafficking, children's right to education and child malnutrition.

Speaker / guest: Padma Shri Prof. Shantha Sinha, Professor (Retd.) HCU; former Chairperson, NCPCR


Wide view of an auditorium with a screen at the front


Audience seated in a lecture hall


Audience seated in tiered seating


People gathered on stage at the front

18. Guest Lecture: Choice Functions, Game Theory and Mechanism Design

Seminar · Department of Mathematics · S502
Date 11 Jun 2025 · Participants 23 (8 faculty, 15 PhD scholars)

Lecture on aggregating individual choice functions where standard rationality assumptions may not hold, linking choice theory to game theory and mechanism design, with implications for decentralised decision-making and AI-based collective intelligence.

Speaker / guest: Dr Soumyarup Sadhukhan, Assistant Professor, IIT Kanpur


Room with attendees at desks and a screen at the front


Speaker standing beside a screen


Speaker standing at the front of the room


Attendees seated at desks

19. Clinical Psychology and its Scope in India

Virtual guest talk · Department of Psychology · online
Participants 100 (50 external, 2 faculty, 48 UG)

Online orientation to clinical psychology as a career: core concepts, training pathways, licensure requirements and the roles clinical psychologists play in hospitals, rehabilitation centres and research.

Speaker / guest: Dr Barre Vijay Prasad, AIIMS New Delhi


Screenshot of the online session: speaker on video beside a slide

20. Vedic Science Book Exhibition

Book exhibition · NSS Cell / Directorate of Student Affairs · SR Block, Grand Stairs
Date 18–20 Nov 2024 · Participants 2,010 (245 PG, 1,765 UG)

Book exhibition organised by the NSS unit presenting texts on Vedic science, and promoting the idea of a Vedic Science Club on campus.

Speaker / guest: Sri Hridaya Chaitanya, educator, ISKCON


Exhibition stall with a National Service Scheme banner


Two people at the exhibition table


Volunteers behind the exhibition table


Person standing behind a display of books

CAMPUS-LIFE EVENTS MAPPED TO SDG 8

21. CINEVIE — Short Film Competition

Cultural event · Cinemates Club / Directorate of Student Affairs · APJ Abdul Kalam Auditorium
Participants 1,025 (10 external, 15 faculty, 1,000 UG)

Short-film competition with screenings and an awards ceremony in the university auditorium, drawing participants from different places.

Jury: Mr Deepak Reddy, film director


Audience seated in an auditorium


Three men standing together holding a certificate


Person seated beside a projected screen


Group standing in a row before a screen

22. INFINITUS 2025 — National-level Techno-Cultural Fest

Techno-cultural fest · Student Council & Directorate of Student Affairs · SRM University-AP
Date 5–8 Feb 2025

Four-day fest of technical events (coding, autonomous vehicles, E-Cell, drone challenge, technical expo, hackathons), club competitions, cultural contests and pro shows. Craft-bazaar and food stands formed part of the fest, which the report links to nurturing entrepreneurship.

Speaker / guest: Inaugurated by Mr Kishan Sreenath, Volvo Group


Crowd of students outdoors before campus buildings


Vehicles with people in a convoy on a campus road


People on stage beneath an “Inauguration” backdrop


Students seated at desks in an open workspace



Performer on a green stage, audience in front



Group of students seated under a “Valedictory” backdrop



Performer on a stage lit in red



Stage with coloured lights and a “DJ Akram” screen


Group on stage wearing sashes



Participants lined up on stage under an “Aloha” backdrop


Band performing under green lights


Solo performer with patterned stage lighting

COMMUNITY OUTREACH ACTIVITIES

Training for rural entrepreneurs

25 Jan 2025
one-day offline training, 9:00 AM – 5:00 PM

70
attendees: 63 external and 7 staff

1 day
SRM AP Admin Block, Tier Classroom

Financial Management and Strategy Planning

The Directorate of Entrepreneurship & Innovation's CSR ADITRI team hosted a one-day training session for rural entrepreneurs, delivered by Ms Usha Paliath, Director of Incubation at WE Hub, Government of Telangana, an angel investor and a National Committee Member of the Confederation of Women Entrepreneurs.

The session helped participants build financial literacy, understand budgeting and cash-flow management and develop strategic business plans, and gave insight into funding options and financial documentation. Discussions and hands-on exercises boosted participants' confidence to pursue sustainable growth.



Event flyer (in Telugu) showing the session title, date and venue


Participants and organisers posing together on tiered seating


Participants seated in a classroom facing a screen


Participants seated, with a presenter at the front

RESEARCH AND PUBLICATIONS

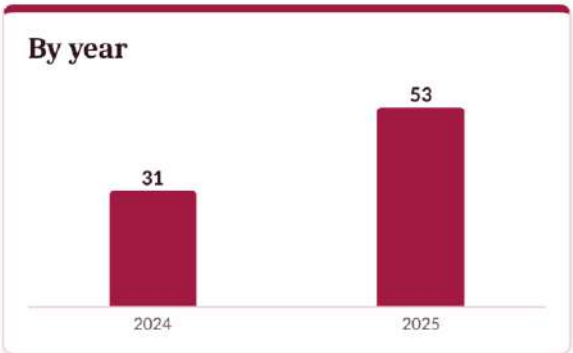
SDG 8 research output, 2024–2025

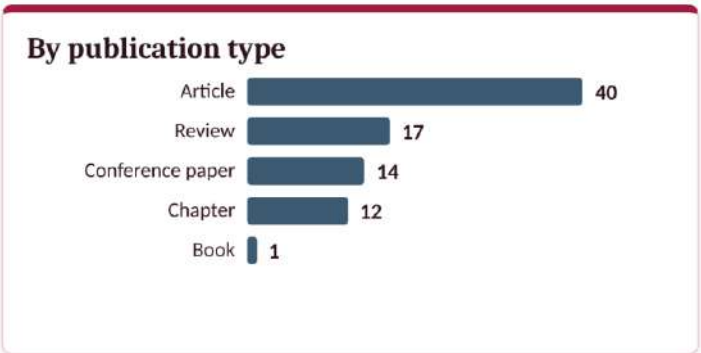
84
publications tagged to SDG 8
2024–2025

53
published in 2025
31 in 2024

40
journal articles
plus 17 reviews

33
with FWCI of 1.0 or more
at or above world average





SELECTED PUBLICATIONS MOST CLOSELY RELATED TO SDG 8 THEMES

Title, theme and authors	Year	Type	CiteScore	FWCI	DOI
Informal workers in India as an economic shock absorber in the era of COVID-19: A study on policies and practices Labour & employment · Paliwal, M. et al.	2024	Article	3.6	2.01	10.3233/HSM-220155
Women's Labour Market Outcomes and Contours of Subnationalism - A Comparison across Four States in India	2024	Article	0.6	0	–

Title, theme and authors	Year	Type	CiteScore	FWCI	DOI
Labour & employment · Tobi, A. et al.					
Balancing growth and green goals: financial access, entrepreneurship, and sustainable development in the BRICS economies Entrepreneurship & growth · Navin, Y. et al.	2025	Article	3.3	0.85	10.1007/s43621-025-01625-8
Linkages between financial development and the growth dynamics of the manufacturing industry: empirical evidence from India Entrepreneurship & growth · Sahoo, M. et al.	2025	Article	7	0.55	10.1108/JEAS-08-2024-0293
Examining the Influence of Renewable Energy Consumption, Technological Innovation, and Export Diversification on Economic Growth: Empirical Insights from E-7 Nations Entrepreneurship & growth · Alhashim, M. et al.	2024	Article	7.7	1.33	10.3390/su16219159
Accounting for the interconnectedness of globalization, growth, and poverty towards achieving sustainable development Entrepreneurship & growth · Sodiq Olaide, B. & Manzoor Hassan, M.	2024	Article	6.6	1.62	10.1007/s11135-024-01908-8
Mobile banking services and financial inclusion among customers of commercial banks: Evidence from an emerging economy Financial inclusion · Saeed, M.M. & Donkoh, E.	2024	Article	5.5	1.3	10.1002/bsd2.70035
Does Unified Payment Interface (UPI) Contribute to Financial Inclusion? The Case of Construction Workers in Andhra Pradesh Financial inclusion · Ragini, B. & Vineesh Prakash, J.	2024	Conference paper	0.7	0.56	10.1007/978-981-97-6687-1_10
Artificial intelligence for financial inclusion and sustainable development: a systematic literature review Financial inclusion · Marak, N.R. & Ayyagari, L.R.	2025	Review	6.2	0.37	10.1007/s44163-025-00668-0
The Impact of Women on Corporate Boards on Intellectual Capital Efficiency and Business Performance in Sub-Saharan Africa Corporate governance & CSR · Saeed, M.	2025	Article	4	3.04	10.1002/jid.3986
Corporate social responsibility (CSR) and corporate financial performance (CFP): a panel data analysis of BSE 500 companies in India Corporate governance & CSR · Mohammed, S.S. et al.	2025	Article	3.3	2.98	10.1007/s43621-025-01113-z
The Impact of Corporate Governance on the Contribution of Listed Firms to Sustainable Development Goals (SDGs) Disclosures in Ghana Corporate governance & CSR · Saeed, M.M. et al.	2025	Article	13.6	3.69	10.1002/sd.3367

Twelve of the 84 tagged publications that deal most directly with employment, labour markets, entrepreneurship, financial inclusion, economic growth and corporate governance. CiteScore is for the journal in the publication year; FWCI = Field-Weighted Citation Impact.

STARTUPS AND INNOVATION

Incubated venture and innovation showcase

Beguile Food Industries

Food-tech · social impact focus: sustainability · primary SDG: 8

A B2B e-commerce venture (trading as “Bistea”) specialising in instant drinks for hotels, restaurants and cafés. It was founded by a student, Mr Utsav Dave, and is registered as an LLP.

₹50,000
funding recorded
Category: Others · from the Directorate of Entrepreneurship

Nil
patents filed or granted
No tech-transfer agreement facilitated

RECORD AT A GLANCE

Founder category	Student (male)
Legal form	LLP
Date of incorporation	3 May 2023
Incubation	16 May 2024 – 16 Nov 2025
MoU signed	16 May 2024
Funding body	Directorate of Entrepreneurship
Patents filed / granted	Nil / Nil

VENTURE AND INNOVATION STALLS AT TECHPRENEUR 2024

The Techpreneur 2024 expo (2 Sep 2024) had stalls from the Next Tech Lab, the Directorate of Entrepreneurship and Innovation and the Department of Research. Ventures and projects named include:

- SASTU Tech Solutions Pvt Ltd
- Shakti Photon Solutions Pvt Ltd
- APIRSQUARE Pvt Ltd
- ResuMatch (AI-based resume mock interviews)
- AdamantiumRE (AI-based malware analysis)
- No Wait (smart lift-management automation)
- Aditri – Neem Toys, SteerBot, Rocket Man (virtual reality)

These ventures and projects were shown as exhibits at the expo.

CONCLUSION

Progress towards decent work and economic growth

Taken together, SRM University-AP's work on SDG 8 runs in the three ways set out at the start: preparing students for work, setting out fair workplace principles in writing, and giving ideas and research a route towards enterprise. The strongest work is in employability and career guidance, where placement outcomes, alumni talks and counselling sessions point the same way.

SDG 9: Industry, Innovation and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation.

INTRODUCTION

Infrastructure, industry and innovation

Sustainable Development Goal 9 asks countries and institutions to build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation. Its premise is simple: reliable infrastructure, productive and cleaner industry, and a strong base of research and technology are the foundations on which economic growth, decent jobs and wellbeing rest. The goal also stresses that access to knowledge, technology and enterprise should widen over time rather than stay concentrated in a few places.

SRM University-AP follows these principles through the places where innovation happens: its laboratories, shared research instrumentation and engineering departments, and its links with industry, public agencies and start-up support. Research is carried out with attention to practical use, students meet industry practice through guest lectures, workshops and visits, and the incubation ecosystem helps turn ideas into ventures. In principle, teaching, research and enterprise are treated as one connected pipeline for innovation, and the sections that follow show how that approach is reflected in the University's records.

A. Resilient infrastructure

Quality, reliable and sustainable facilities, with equitable access to them.

B. Inclusive and sustainable industrialisation

Productive, resource-efficient and cleaner industry that creates opportunity.

C. Innovation

Stronger research capability, technology development and enterprise.

HOW THE UNIVERSITY CONTRIBUTES

Research and laboratories: funded research, shared instruments and centres that give researchers the tools to work on real problems.

Industry and public linkages: agreements, guest lectures and joint work with companies, laboratories and government departments.

Entrepreneurship and incubation: mentoring, funding routes and recognition for student, staff and external founders.

HIGHLIGHTS



WHAT THE NUMBERS SHOW

Research that attracts funders. SRM-AP ran 21 sponsored projects and 13 consultancy assignments in FY 2024–25, which shows that external agencies and companies back its research.

Shared facilities. 20 new central instrumentation facilities were added, which widens access to advanced characterisation equipment for researchers across departments.

Open to industry. 16 research and industry agreements and 65 mapped events keep laboratories and classrooms connected to practitioners.

Research that is read. 208 SDG 9-tagged publications, 102 of them cited above the world average for comparable work, show research output that reaches beyond the campus.

Ideas to ventures. 8 incubated start-ups are mapped primarily to SDG 9, working in areas such as nano-materials, AR/AI and manufacturing.

RESEARCH AND INNOVATION

Funded research and consultancy

In FY 2024–25 the University held **16 sponsored projects from government agencies** and **5 from non-government funders**. SRM-AP also carried out **13 consultancy projects**, which supports applied research that answers industry needs.

Alongside external funding, the University's own seed and general research funding accepted all **104 applications** received from 13 departments, which provides internal support for early-stage research.

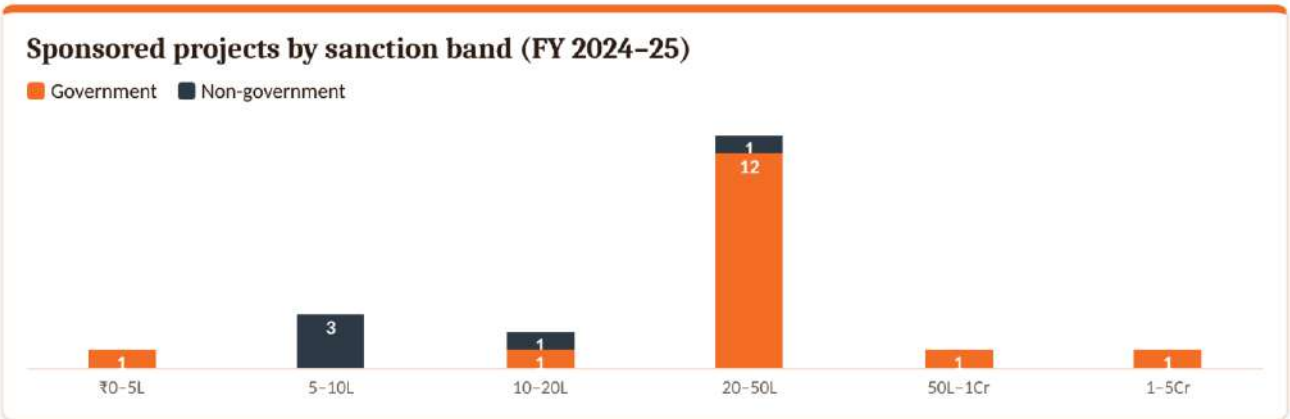
Among the research outputs counted by the Dean–Research office, **75 publications involved industry collaboration**.

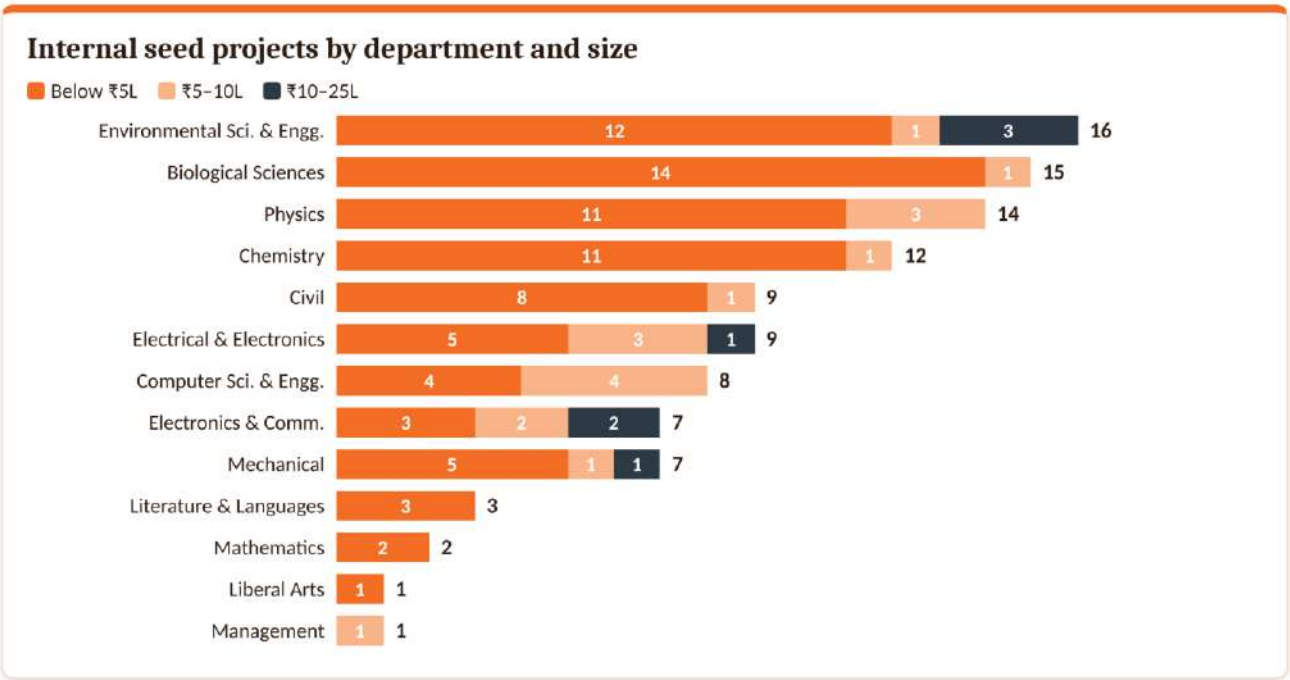
16
government-sponsored projects
FY 2024–25

5
non-government-sponsored projects
FY 2024–25

13
consultancy projects
FY 2024–25

104
seed-funded projects
104 of 104 applications accepted





Projects were sponsored by both government and non-government funders, so research does not depend on a single source. Seed funding reached 13 departments, and 79 of the 104 sanctioned projects were below ₹5 lakh, so support was spread widely across the University.

INDUSTRY AND RESEARCH LINKAGES

Agreements with industry and public bodies

SRM-AP signed **16 research and industry agreements** between August 2024 and June 2025 that relate directly to SDG 9. They span 15 organisations, from national laboratories and a state government department to technology companies, and they support shared research, industry exposure and innovation support.



MATERIALS, METALS AND ENERGY MATERIALS

- **CSIR–NAL** — Research collaboration on corrosion-protective coatings (Aug 2024)
- **Hindalco Industries Ltd** — Confidentiality agreement for business discussions and information exchange (Sep 2024)
- **Central Metallurgical R&D Institute, Egypt** — Scientific and educational cooperation (Nov 2024)
- **Hydrogen Innovations Pte Ltd** — Materials research on catalyst development (Mar 2025)
- **Black Komodo Investments FZE** — Confidentiality agreement (Feb 2025) and R&D agreement (Jun 2025) on piezoelectric generators, tiles and materials

INFRASTRUCTURE AND TRANSPORT

- **Roads & Buildings Department, Govt. of Andhra Pradesh** — Pavement engineering research, internships, guest lectures and workshops (Sep 2024)

ELECTRONICS, COMPUTING AND AEROSPACE

- **Uniglobus Electricals & Electronics Pvt Ltd** — Research in electrical and electronics engineering (Nov 2024)
- **Nanochip Skills Pvt Ltd** — Confidentiality agreement to explore business and research opportunities (Nov 2024)
- **Adaxon Pte Ltd and Next Tech Lab (SRM-AP)** — Web3, generative AI, federated learning and IoT applications (Jan 2025)
- **Efftronics Systems Pvt Ltd, Mangalagiri** — R&D, laboratories, curriculum and certification programmes (Jan 2025)
- **Vayudhwajai-M Aerospace Pvt Ltd** — Drone technology research, funding and awareness programmes (Feb 2025)
- **Microsoft Student Community and Purple Technologies** — Set-up of an advanced technical research lab, Singularity Lab (2025)
- **Blumin Software and Training Consultancy LLP** — Industry collaboration, innovation and professional development (Oct 2024)

INNOVATION AND ENTREPRENEURSHIP ECOSYSTEM

- **Hyderabad Impact Hub Pvt Ltd** — Social entrepreneurship ecosystem and innovation support (May 2025)
- **Chakra Dialogues Foundation** — Academic exchange, incubation, research and industry collaboration (May 2025)

RESEARCH CENTRES AND INFRASTRUCTURE

Shared facilities for advanced research

The Central Instrumentation Facility (CIF) is the University's shared platform for advanced research equipment. In FY 2024–25 it added **20 new facilities** with a total outlay of **₹4,63,07,469**, and a further **20 augmentations** of research infrastructure were recorded. This supports researchers across departments who need characterisation and analysis tools that no single laboratory could justify alone.

Income of **₹68,912** was recorded through CIF and the I-STEM portal during the year, a sign that the equipment is in active use.

Seven Centres of Excellence submitted reports on their salient features, activities and achievements for the year, and **₹50,53,200** was sanctioned to them.

20
new CIF facilities added
FY 2024–25

₹4,63,07,469
outlay on new CIF facilities
FY 2024–25

20
research-infrastructure augmentations
FY 2024–25

₹68,912
earned through CIF / I-STEM
FY 2024–25

7
Centres of Excellence reporting
FY 2024–25

₹50,53,200
sanctioned to Centres of Excellence
FY 2024–25

INSTRUMENT TRAINING AND USER MEETS, 2024–25

13 Sep 2024	AMPTS III instrument demonstration
9 Jan 2025	Familiarisation workshop on powder X-ray diffraction equipment
12 Feb 2025	ICP-OES training
7 Mar 2025	I-STEM online meeting with instrument responsible persons, operators and users
20 May 2025	Horiba FluoroLog instrument training
18–19 Jun 2025	Users' meet on X-ray diffraction technique
25–26 Jun 2025	Users' meet on NMR spectroscopy

EVENTS AND OUTREACH

Sixty-five SDG 9 events in a year

Between July 2024 and June 2025, departments recorded **65 events mapped to SDG 9**: guest lectures, technical events, workshops, conferences and training sessions that bring industry practice and current research into the classroom. They range from one-day talks to a five-day faculty development programme and international conferences.

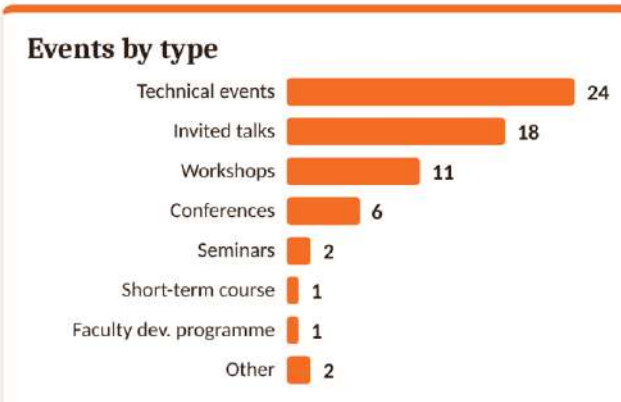
12 events received external funding, totalling **₹33,17,658**, which shows that outside organisations backed these activities. Civil Engineering, Physics, and Electronics and Communication Engineering were the most active hosts, and activity peaked in April 2025 with 12 events.

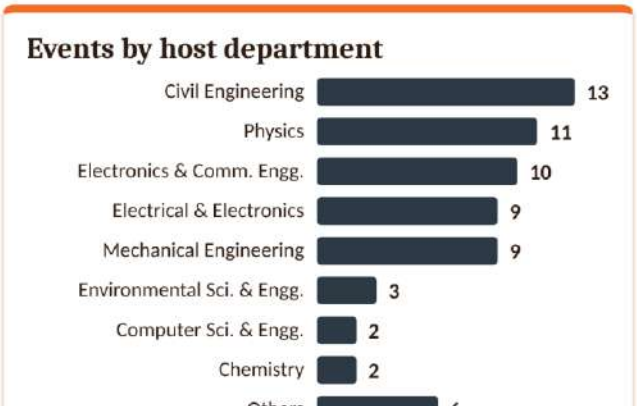
65
SDG 9-mapped department events
2 Jul 2024 – 26 Jun 2025

12
externally funded events

₹33,17,658
external funding received

6
conferences within the 65 events







FEATURED EVENTS

1st International Conference on Emerging Trends in Optical Technologies (ETOT-I)

2–4 January 2025 · Department of Physics
164 participants listed · 62 speakers · 101 oral and poster presentations

A three-day conference on optics, bringing together researchers and industry experts to discuss quantum optics, imaging, sensing and photonics applications. The conference had 121 external participants alongside 8 faculty, 10 PhD scholars, 5 PG and 20 UG students, and drew discussions on bidding for larger international events. External funding of ₹7,92,000 was received.



Conference poster listing the title, dates and venue of ETOT-I

1st International Conference on Emerging Computing (ICEC-2024)

23–25 November 2024 · Department of Electronics and Communication Engineering
906 paper submissions · 139 papers accepted · 7 keynote speakers

A conference on intelligent computing and communication technologies, covering AI-enabled computing, networking, next-generation computing, cybersecurity and quantum computing. Accepted papers were published in IEEE Xplore, and 16 papers were recognised as best papers.



Panel seated on stage beside a flower-garlanded lectern at the ICEC-2024 inaugural session



People seated in rows in a conference hall

OCIT-2024: 22nd OITS International Conference on Information Technology

12–14 December 2024 · Department of Electronics and Communication Engineering
600 paper submissions · 136 papers accepted · 12 best papers

A three-day conference on information technology, from artificial intelligence and machine learning to advanced networking and quantum computing, with seven keynote talks and a platinum sponsorship from CCC Digital India. Accepted papers were published in IEEE Xplore.



People standing in a meeting room with a presentation screen behind them



Group photograph of participants and organisers in a seminar room

ECE Open House Day 2025: From Microchips to Megatrends

23 April 2025 · Department of Electronics and Communication Engineering
291 participants · 150+ student projects on display · 4 industry and academic guests

A showcase of capstone, undergraduate research and postgraduate projects in electronics and communication engineering, with evaluation and feedback from experts of IBM Research, Mphasis, Efftronics and IETE, and an outreach programme for school students. Participants: 4 external, 35 faculty, 22 PG and 230 UG.



Event poster showing the key highlights, date and venue

Industry guest lecture on Distributed Control Systems

17 March 2025 · Department of Electronics and Communication Engineering
150 participants · 1 industry speaker

A guest lecture by a business development manager of Rockwell Automation on decentralised control architectures, communication protocols and uses such as smart grids and industrial automation. 148 undergraduate students and 2 faculty members took part.



Speaker addressing the class in front of two display screens



Students seated in a tiered classroom

Atmanirbhar Bharat: Innovations in Lean Manufacturing for the Automotive Industry

16 April 2025 · Department of Mechanical Engineering
97 participants · 2 industry speakers

A one-day workshop on lean manufacturing, Industry 4.0 and sustainable practices in automotive production, led by speakers from industry, including Tata Elxsi. Students and faculty gained trend insights for curriculum and research, and the session opened routes to internships and projects.



A man in a silk shawl receiving a potted plant from a woman in front of the workshop screens



A man standing and speaking to a seated audience in a tiered classroom

STUDENT-FACING EVENTS

Two events run by the Directorate of Student Affairs drew large audiences. Together they recorded **6,557 participants** (3,537 at Techpreneur 2024 and 3,020 at National Space Day 2024), with Techpreneur putting **25 technical stalls** in front of students and visitors.

Techpreneur 2024

2 September 2024 · Directorate of Student Affairs
3,537 participants · 25 technical stalls · 2 guests of honour

A technical exposition in the Atrium with 25 stalls from Next Tech Lab, the Directorate of Entrepreneurship and Innovation and the research office. Projects shown included additive manufacturing, robotics, unmanned aerial vehicles, 6G radio-frequency design, solid-state batteries and hydrogen fuel cells, alongside start-up ventures. Guests included the co-founder of Infosys and the CEO of Swiggy.

Participants: 2 external, 20 faculty, 15 PhD scholars, 1,000 PG and 2,500 UG. Showcased areas also included edge AI, thermal management of electronics, smart indoor localisation, responsible e-waste management and reclamation of critical metals.



People gathered around a technical stall



Two people at a technical stall

National Space Day 2024: live telecast

23 August 2024 · Directorate of Student Affairs
3,020 participants

A live telecast titled “Touching Lives While Touching the Moon: India’s Space Saga”, shown in the APJ Abdul Kalam Auditorium to mark National Space Day. It reached about 3,000 students along with deans and heads of department, and students were encouraged to revisit the recording afterwards.

Participants: 20 faculty and 3,000 UG students. The session ran from 10:00 to 11:00 am.



Audience seated in a large auditorium



Large screen on the auditorium stage with the audience in front

PUBLICATIONS

SDG 9 research output, 2024–2025

SRM-AP has **208 publications** from SRM-AP under SDG 9, **88 from 2024** and **120 from 2025**. The mix of 89 journal articles, 44 review papers, 33 book chapters, 32 conference papers and 9 books shows research reaching beyond a single outlet type.

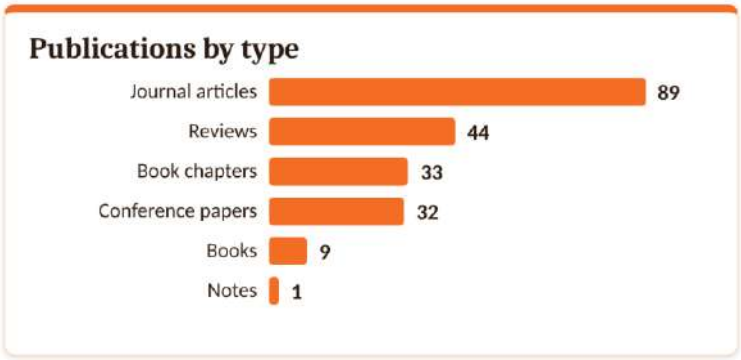
Field-weighted citation impact (FWCI) compares citations with the world average for similar work. **102 of the 208 publications score above 1.0**, and the average FWCI is 1.67, which indicates that a good share of this work is cited more than comparable papers worldwide.

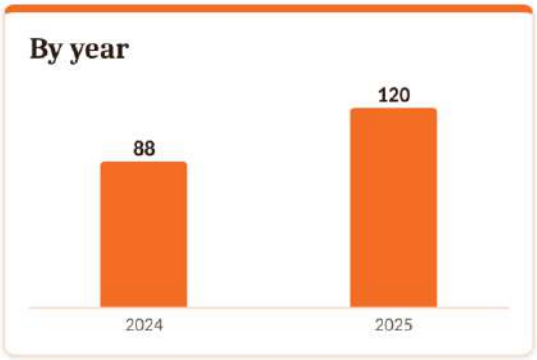
208
SDG 9-tagged publications
2024–2025

120
published in 2025
88 in 2024

102
with FWCI above 1.0
of 208 publications

1.67
average FWCI
across the 208





HIGHLY CITED PUBLICATIONS

Eight papers with high field-weighted citation impact on industrial IoT, smart manufacturing, intelligent transport, digital security and construction materials.

#	Title and authors	Year	Type	FWCI	DOI
1	**AI-Powered IoT: A Survey on Integrating Artificial Intelligence With IoT for Enhanced Security, Efficiency, and Smart Applications** Menon U, V. et al.	2025	Article	26.69	10.1109/ACCESS.2025.3551750
2	**Interoperability Between OPC-UA and MQTT in Hybrid Industrial IoT (IIoT) Environments** Guptha, V.D.P.S. et al.	2025	Conference paper	11.99	10.1109/COMSNETS63942.2025.10885710
3	**Environmental impact of concrete containing high volume fly ash and ground granulated blast furnace slag** Bhagath Singh, G.V.P. and Durga Prasad, V.	2024	Article	8.10	10.1016/j.jclepro.2024.141729
4	**TRSBi-YOLO: Transformer based lightweight and high-performance model for PCB defects detection** Ancha, V.K. et al.	2025	Article	7.48	10.1007/s11227-025-07771-0

#	Title and authors	Year	Type	FWCI	DOI
5	**DYNAMIC-TRUST: Blockchain-Enhanced Trust for Secure Vehicle Transitions in Intelligent Transport Systems** Surapaneni, P. et al.	2025	Article	4.54	10.1109/TITS.2025.3545755
6	**Decentralized Blockchain-Integrated IoT Framework for Enhancing Cybersecurity and End-to-End Trust in Data Transmission** Rajak, B. et al.	2025	Conference paper	4.86	10.1109/ICICNIS66685.2025.11315751
7	**Intelligent Industrial IoT: A Data-Driven Approach for Smart Manufacturing and Predictive Maintenance** Putteti, S. et al.	2025	Conference paper	4.36	10.1109/ICAISS61471.2025.11041978
8	**FSS-Based THz Electromagnetic (EM) Wave Absorbers: Principle, Design, and Applications** Kumar, A. and Bhardwaj, A.	2025	Book chapter	4.59	10.1007/978-3-031-78802-4_30

STARTUPS AND INNOVATION

Incubated ventures

Of the **30 start-ups** incubated in 2024–25, **8 are mapped primarily to SDG 9**. Five are led by external founders and three by students, and they work in nano-materials, manufacturing, blockchain and augmented-reality retail technology, which links the incubation ecosystem to industry and digital infrastructure.

Two of the eight received funding, a combined **₹3,50,000**. None reports patents filed or granted, or technology-transfer agreements.



Vascan Solutions Pvt Ltd
Retail tech · Student-led

In-store product search for retail. ₹3,00,000 MeitY TIDE 2.0 grant.

Incubation: Apr 2024 – Oct 2025

Opulent
Smart ring manufacturing · Student-led

Smart ring manufacturing. ₹50,000 Directorate of Entrepreneurship support.

Incubation: Apr 2024 – Apr 2025

109 Nano Composite Technologies Pvt Ltd
Nano technology · External founder

Nano-composite characterisation, synthesis and application services for industry and research bodies.

Incubation: May 2024 – Nov 2025

Tryneu Global Solutions (OPC) Pvt Ltd
Augmented reality · External founder

AI-based virtual dressing platform for e-commerce.

Incubation: Jul 2024 – Jul 2025

Vamsharaj Technologies Pvt Ltd
Augmented reality · External founder

AR and VR solutions for niche retail such as furniture, home décor and property visualisation.

Incubation: Oct 2024 – Oct 2025

Keloth Deeptech Pvt Ltd
AR / AI technology · External founder

Computer vision and machine learning for facial mapping and skin analysis with product recommendations.

Incubation: Oct 2024 – Oct 2025

Ironmen Technologies Pvt Ltd
Manufacturing · External founder

An automated ironing and folding machine.

Incubation: Dec 2025

TWO-LYP Computations
Blockchain · Student-led

Blockchain-based reward and engagement tools for creators.

Incubation: Mar 2025 – Mar 2026



INNOVATION ECOSYSTEM HIGHLIGHTS

- **3.5-star rating** for the University's Institute Innovation Council from the Ministry of Education.
- **Hatchlab Research Center**, a separate not-for-profit entity, reports 56 start-ups onboarded to date.
- **4 start-ups funded** (2 internal, 2 external) under the MeitY GENESIS EiR scheme, ₹5 lakh each.
- **Smart India Hackathon winner:** Team Ritorono (B.Tech CSE) won the software edition at IIT Jammu.

CONCLUSION

Progress across the innovation chain

The records in this section show an institution that supports SDG 9 across the whole innovation chain. Funded projects and consultancy engage external partners, shared instrumentation widens access to research tools, and agreements with laboratories, government departments and companies keep the work connected to practice. Events bring practitioners to campus, publications carry the research into the wider literature, and incubated start-ups are a route from ideas to ventures.

SDG 10: Reduced Inequalities

Reduce inequality within and among countries

INTRODUCTION

Equal access and inclusion

Sustainable Development Goal 10 calls on countries and institutions to reduce inequality within and among countries. It aims to promote the social, economic and political inclusion of all people, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status, and to secure equal opportunity and fairer outcomes. For higher education, this means that a person's background should not decide whether they can enter a university, take part fully in its life and succeed there.

SRM University-AP follows this goal in principle through equal access to learning, an admissions approach that is open to students from varied social, economic and regional backgrounds, and support that lets students from different communities study together on one campus. The university also works to make its buildings easier to use for persons with disabilities, to bring a range of voices and perspectives into the classroom, and to take part in the life of the communities around it. The pages that follow document these efforts using the university's own records.

HOW THE UNIVERSITY CONTRIBUTES

Equal access

Learning and campus facilities open to students from every background, with physical access for persons with disabilities.

Inclusive admissions

A student community that brings together different social categories, regions and nationalities.

Support for varied backgrounds

Dialogue, cultural exchange and outreach that help students understand and act on inequality.

Inclusion is built from many small, practical steps: a ramp at an entrance, a lecture that gives voice to those at the margins, a visit to a community that needs support. This section records those steps and the data behind them.

SDG 10 DATA AND KEY HIGHLIGHTS

Who studies at SRM University-AP

4,547
General category students on roll
Male 2,725 · Female 1,822

2,713
OBC students on roll
Male 1,862 · Female 851

896
EWS students on roll
Male 572 · Female 324

537
SC students on roll
Male 325 · Female 212

147
ST students on roll
Male 89 · Female 58

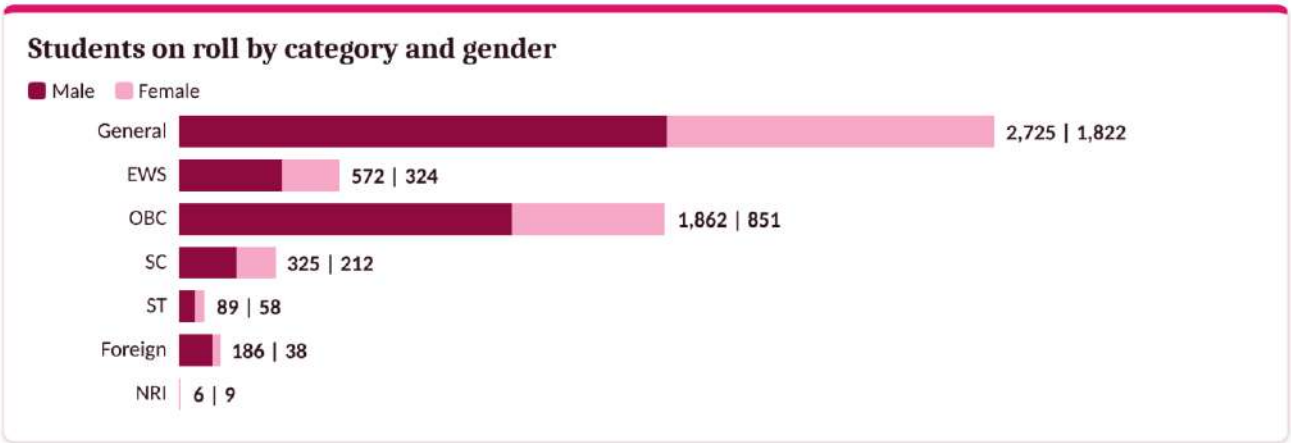
224
foreign students on roll
Male 186 · Female 38

15
NRI students on roll
Male 6 · Female 9

3
departmental events mapped to SDG 10
Feb–Mar 2025

8
student-affairs events mapped to SDG 10
Oct 2024 – Mar 2025

21
publications linked to SDG 10
2024–2025



STUDENTS ON ROLL BY CATEGORY AND GENDER

Category	Male	Female	Total
General	2,725	1,822	4,547
EWS	572	324	896
OBC	1,862	851	2,713
SC	325	212	537
ST	89	58	147
Foreign	186	38	224
NRI	6	9	15

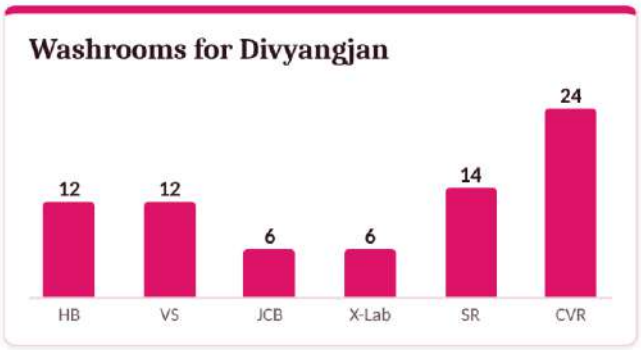
EWS: Economically Weaker Sections · OBC: Other Backward Classes · SC: Scheduled Castes · ST: Scheduled Tribes · NRI: Non-Resident Indian.

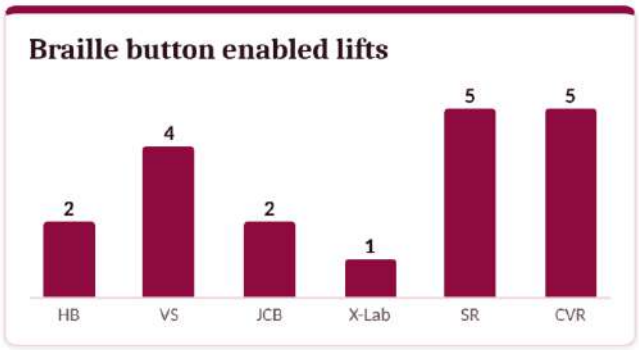
ACCESSIBILITY AND INCLUSIVE INFRASTRUCTURE

Facilities for persons with disabilities

Facility	HB	VS	JCB	X-Lab	SR	CVR
Buildings having ramps facility	1	1	1	1	2	2

Facility	HB	VS	JCB	X-Lab	SR	CVR
Washrooms for Divyangjan	12	12	6	6	14	24
Wheelchairs available for Divyangjan	1	1	1	1	1	1
Braille button enabled lifts	2	4	2	1	5	5





HOW THESE FACILITIES SUPPORT ACCESS

Ramps provide a step-free route into and around a building, and lifts connect its floors, which helps persons with disabilities and others with limited mobility, such as people with a temporary injury or those moving heavy loads. Lift buttons with Braille marking help persons with visual impairment to identify the floor they want, and accessible washrooms and wheelchairs add to the basic needs a campus must meet if everyone is to take part fully in university life.

LIFTS



Lift doors with labels and floor indicator



Lift lobby with two lift doors



Lift door and call panel

RAMPS



Concrete ramp with stainless-steel handrails



Sloped paved surface beside a short flight of steps



Stone ramp rising to a building entrance

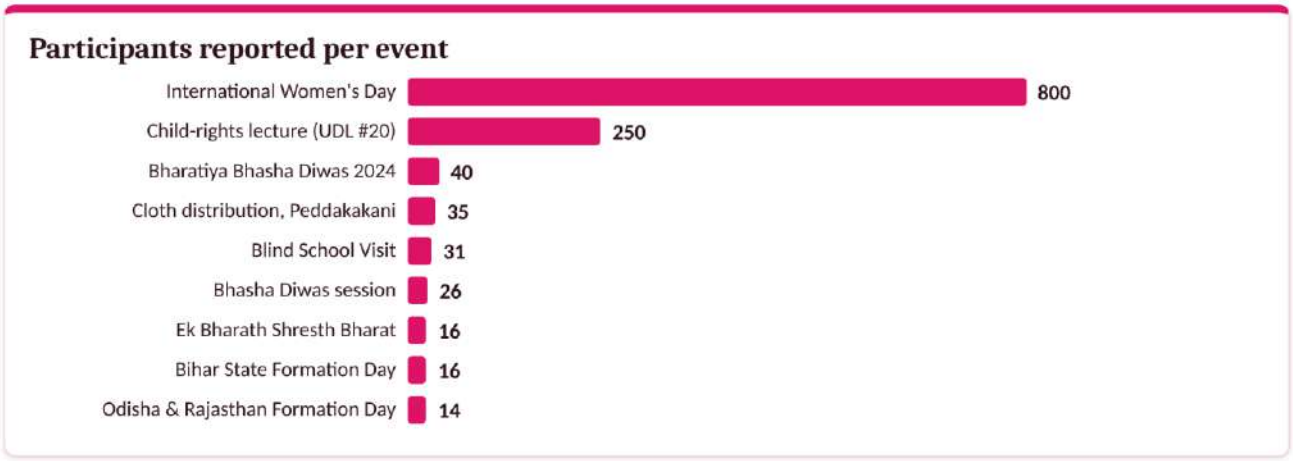
EDUCATIONAL INITIATIVES AND EVENTS

Lectures, a conference and cultural events

Lectures, conferences and cultural events give students and faculty a place to examine inequality, rights, identity and shared heritage. The events range from a lecture on child rights to a conference on democracy in South Asia, and from language and state-formation celebrations to a Women's Day programme. Outreach events organised by the National Service Scheme are covered under Community Outreach Activities.

EVENT REGISTER

Event	Date	Organiser	Participants
Making Education a Reality and Ending Child Labour (University Distinguished Lecture #20)	21 Feb 2025	Department of Mechanical Engineering	250
The Sociological Perspective and Its Relevance (invited talk)	25 Feb 2025	Department of Sociology and Anthropology	36
Democracy's Undoing: South Asia and its Politics (conference)	20–21 Mar 2025	Department of Political Science	Faculty 21, PhD 8, UG 1, external participants
Bharatiya Bhasha Diwas 2024	11–12 Dec 2024	Directorate of Student Affairs	40
Bharatiya Bhasha Diwas 2024: session by Dr. Manaswini	12 Dec 2024	Directorate of Student Affairs	26
Ek Bharath Shresth Bharat	1 Nov 2024	Governor's Office	16
Bihar State Formation Day at Rajbhavan	22 Mar 2025	Governor's Office	16
Odisha & Rajasthan State Formation Day at Rajbhavan	29 Mar 2025	Governor's Office	14
International Women's Day	12 Mar 2025	Directorate of Student Affairs	800
Cloth Distribution in Peddakakani (outreach)	28 Oct 2024	NSS Cell – SRM AP	35
Blind School Visit (outreach)	28 Feb 2025	NSS Cell – SRM AP	31



Making Education a Reality and Ending Child Labour

21 Feb 2025 · 2:15–4:15 pm · Theatre, SR Block · 250 participants · University Distinguished Lecture #20

Padma Shri Prof. Shantha Sinha, a Ramon Magsaysay Awardee and former Chairperson of the National Commission for Protection of Child Rights (NCPCR), delivered the twentieth lecture in the University Distinguished Lecture series. Drawing on the experience of the M.V. Foundation, she spoke on ending child labour and making education a reality for every child.

Prof. Sinha argued that child labour leads to poverty, and not the other way round. She described the foundation's work in withdrawing children aged 5–14 from labour, preventing child marriages and moving children into schools through residential bridge courses, and its part in the closure of night schools and amendments to the Child Labor Act of 1986. She also discussed the challenges she met during her time at the NCPCR, including child labour, trafficking, the rights of children in areas of civil unrest, and child malnutrition.



Event poster for the lecture.


Audience seated in the lecture hall.



View of the stage from the audience.

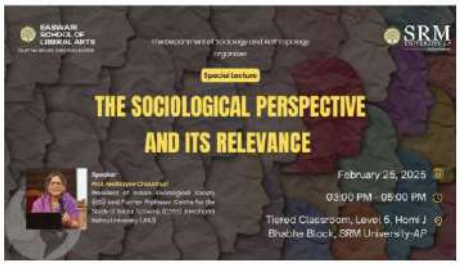
The Sociological Perspective and Its Relevance

25 Feb 2025 · 3:00 pm · Tiered Classroom, Homi J. Bhabha Block · Invited talk

Prof. Maitrayee Chaudhuri, President of the Indian Sociological Society and a retired Professor at Jawaharlal Nehru University, introduced participants to the sociological perspective as a way of examining how individual experiences relate to wider social structures.

The talk aimed to familiarise students with core sociological concepts, show their relevance for understanding inequality, identity, culture and globalisation, encourage a critical and reflective approach among students, researchers and faculty, and highlight the value of sociology in policy-making, development, media, education and governance.

Participants: External 1 · Faculty 15 · PhD scholars 5 · UG 15



Event poster for the special lecture.



Attendees seated in a classroom facing screens that show the event title.

Democracy's Undoing: South Asia and its Politics

20–21 Mar 2025 · 9:00 am – 5:30 pm daily · SRM University-AP · International conference · 2 days

This two-day international conference, hosted by the Department of Political Science, examined the current state and future of democracy in South Asia. It looked at the opportunities and challenges that shape democratic values in the region, including the rise of populism, the role of technology, social and economic inequalities, and the position of civil liberties and minority rights.

Scholars and experts from other institutions took part in keynote addresses, parallel paper sessions and a closing round table on secularism. The discussions produced insights and recommendations for strengthening democratic values and institutions, and encouraged shared thinking on how democratic societies in South Asia can respond to political, social and economic challenges.

Participants: External participants · Faculty 21 · PhD scholars 8 · UG 1

KEYNOTE ADDRESSES

KEYNOTE I	KEYNOTE II	KEYNOTE III
Contextualizing Liberalism Dr. Ashok Acharya, Professor, Department of Political Science, University of Delhi	**Democracies over time: A global perspective** Dr. Kurt Annen, Professor of Economics, University of Guelph, Canada	**Democratic Stumbling and Resurgence** Prof. Manjari Katju, Department of Political Science, University of Hyderabad

SELECTED PAPER SESSIONS ON INEQUALITY AND INCLUSION

Paper title	Presenter
Unequal Scales: Unveiling Gender Disparity in Legal Systems of Nepal and Sri Lanka	Yashaswani S. Sehrawat
Democracy and Affirmative Action: The Thiyya Community's Experience with OBC Reservation	Renoj N. K.

Paper title	Presenter
Intersecting Inequalities: Gender, Ethnicity, and Policy Developments in Democratic Backsliding	Biswajit Prasad
Gender and Governance: The Evolution of Women's Political Influence in South Asia	Dr. Jahnu Kumar Heer
Fallen Between the Cracks: The Lost History of the Garo Christians of Bangladesh	Nikhil Biswas
Mosques, Churches and Hatred: Freedom of Religion and Human Rights in India	Rishiraj Sen
Democracy in the Age of Billionaires: Plutonomic and Plutocratic Challenges to India's Democracy	Dr. Aejaz Ahmad

Round table: "Challenges to Secularism in India", with Prof. Ashok Acharya, Prof. Manjari Katju and Dr. Sambaiah Gundimeda, moderated by Dr. Idris Hassan Bhat (convenor).

Bharatiya Bhasha Diwas 2024

11–12 Dec 2024 · Grand Stairs, Vikram Sarabhai Block · 40 participants · Directorate of Student Affairs

Bharatiya Bhasha Diwas marks the birth anniversary of the Tamil poet and freedom fighter Subramania Bharati and celebrates the variety of languages that make up India. As part of the observance, the Directorate of Student Affairs held an exhibition that showed the 24 official languages of India at the Grand Stairs of the Vikram Sarabhai Block.

The Vice Chancellor, Prof. Manoj Arora, inaugurated the exhibition, which stayed open on 11 and 12 December 2024 for students, staff and faculty. Participation: 20 PhD scholars and 20 UG students.



Event flyer: "Bharatiya Bhasha Diwas, 11-12-24".









Bharatiya Bhasha Diwas 2024: session by Dr. Manaswini

12 Dec 2024 · 26 participants · Self-development

A session by Dr. Manaswini of the Department of History was held as part of the Bharatiya Bhasha Utsav, in tribute to the mother tongue and the cultural and linguistic traditions of India. It was held in the Homi Bhabha Block.

International Women's Day

12 Mar 2025 · 800 participants · Cultural · Inter-University · Directorate of Student Affairs

The Directorate of Student Affairs marked International Women's Day 2025 with a cultural programme with inter-university participation. With 800 participants, it drew the largest turnout among the events in this section.

Ek Bharath Shresth Bharat

1 Nov 2024 · 4:00–6:00 pm · Raj Bhavan, Vijayawada · 16 participants · Governor's Office

The Governor's Office invited the university to take part in a State Formation Day programme at Raj Bhavan, held to celebrate cultural heritage and inclusion in diversity. State Formation Days mark the day on which an Indian state was formed, and they highlight each state's history, language and traditions.

Students took part in the cultural programme, which included performances from different states. Participants: one faculty member and 15 UG students.


Cultural diversity programme.


Haryanvi dance performance.


Tamil Nadu dance performance.


Welcome speech by a Jr. IPS officer.

Bihar State Formation Day at Rajbhavan

22 Mar 2025 · 9:00 am – 1:30 pm · Rajbhavan, Vijayawada · 16 participants · Governor's Office

Students took part in the celebration of Bihar's State Formation Day at Rajbhavan, organised under the Ek Bharat Shreshtha Bharat initiative with the Governor of Andhra Pradesh, Justice S. Abdul Nazeer, as chief guest. The aim was to strengthen national bonding, promote cultural exchange and highlight the heritage of the state. Participants: one faculty member and 15 UG students.


Three people before a “Happy Bihar Day” backdrop.


Group photograph outdoors in front of a green wall.

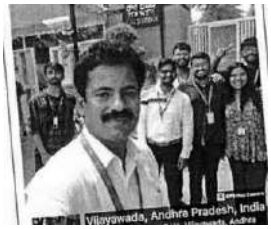
Odisha & Rajasthan State Formation Day at Rajbhavan

29 Mar 2025 · 9:00 am – 1:30 pm · Rajbhavan, Vijayawada · 14 participants · Governor's Office

The State Formation Days of Odisha and Rajasthan were celebrated at Rajbhavan in the presence of the Governor of Andhra Pradesh, again under the Ek Bharat Shreshtha Bharat initiative. The event was meant to strengthen national bonding, promote cultural exchange, highlight India's heritage and remember those who worked for statehood. Participants: two faculty members and 12 UG students.


A speaker at a flower-decked lectern, with an audience seated nearby.


Two people before a decorative backdrop.



Group outside a gate bearing an emblem.


Group photograph at the same gate.

COMMUNITY OUTREACH ACTIVITIES

Taking support into nearby communities

Cloth Distribution in Peddakakani, near Guntur

28 Oct 2024 · 10:00 am – 2:00 pm · Peddakakani, Guntur district · 35 participants (UG) · NSS Cell – SRM AP

Volunteers of the NSS Unit distributed donated clothes to residents of Peddakakani, with a focus on people from low-income backgrounds. Clothing is a basic need that many families struggle to afford, and the distribution was meant to ease some of that burden while building empathy and a sense of responsibility among student volunteers.

The activity is a direct contribution to the welfare of vulnerable groups in the region, including children, older people and women who are most affected by poverty, and as a way to strengthen ties between the university and the local community.



Residents and volunteers gathered under a tree, with a National Service Scheme banner behind.



People gathered under a shelter, with a banner above.



A crowd of residents and volunteers at the distribution point.



Volunteers and residents standing around a table under a tree, with a banner behind.

Blind School Visit

28 Feb 2025 · 31 participants · Extension / Outreach · NSS Cell – SRM AP

The NSS Cell organised a visit to a blind school as an extension and outreach activity, with 31 participants.

RESEARCH AND PUBLICATIONS

SDG 10 research output, 2024–2025

SRM University-AP has 21 publications linked to SDG 10 for 2024–2025. Eleven chosen for topical relevance to inequality are listed below. FWCI = Field-Weighted Citation Impact.

SELECTED PUBLICATIONS

#	Title, authors and DOI	Year	Type	FWCI
1	**Accounting for the interconnectedness of globalization, growth, and poverty towards achieving sustainable development** Sodiq Olaide, B.; Manzoor Hassan, M. · doi:10.1007/s11135-024-01908-8	2024	Article	1.62
2	**Unlocking the potential of small-scale irrigation for small farmers in Northwestern Ethiopia** Gebrehiwet, D.L.; Pandey, G. · doi:10.1108/JADEE-05-2024-0157	2025	Article	2.46
3	**Glodebtization: Implications for Sustainable Development Goals** Bisiriyu, S.O.; Dhar, B.K. · doi:10.1016/j.resglo.2025.100317	2025	Article	1.16
4	**Strengthening Equity and Social Justice Research in Mathematics Education Through Critical Interrogations of White Supremacy and Settler Colonialism** Stinson, D.W.; Subramanian, J.; Yeh, C. · doi:10.1007/978-3-031-51474-6_21	2024	Chapter	1.33
5	**Effectiveness of psychological interventions for mental health problems among war refugees: A systematic review and meta-analysis** Rajkumar, E.; Lipsa, J.M.; Harshit, S.; Gopi, A. · doi:10.1016/j.psychres.2025.116432	2025	Article	0.32
6	**Advocacy and movement building for health rights and services for LGBTIQ communities: Insights and lessons learned from EQUAL GROUND, Sri Lanka** Chowdhury, S.A.; Flamer-Caldera, R.; Mishra, S. · doi:10.1007/978-981-97-2098-9_55	2025	Chapter	3.07
7	**Production of Neoliberal Subjectivity(ies) on the Shop Floor: A Study of Women Shop-floor Employees in a Shopping Mall in Hyderabad** Pradhan, I. · doi:10.4324/9781003377726-12	2024	Chapter	1.3
8	**Factors affecting student diversity in higher education institutions: a data-driven case study from India** Jain, G.; Haroon, A.P.; Ganeshan, P.; Rajendran, K. · doi:10.1007/s44217-025-00895-8	2025	Article	0.32
9	**A quasi-experimental study on health insurance coverage and health services in Nigeria** Singh, S.; Kaul, M.; Bala, M.M.; Krishnan, C.; Rawandale, C.J. · doi:10.4102/PHCFM.V16I1.4056	2024	Article	0
10	**From Resist to Privilege: Rising Psychological Empowerment and Gender Equality for Poverty Alleviation** Dhamodharan, M.; Sunaina, K. · doi:10.1108/978-1-83753-292-620241010	2024	Chapter	0
11	**Mathematics Education in the Times of Manuvadam and Massive Privatization**	2024	Article	0

#	Title, authors and DOI	Year	Type	FWCI
	Subramanian, J. · doi:10.34024/prometeica.2024.31.19580			

CONCLUSION

Progress towards reduced inequalities

The records in this section show a university that treats reduced inequality as something to be practised in daily campus life as well as discussed in the classroom. Its student community brings together different social categories, regions and nationalities. Its buildings include ramps, lifts with Braille-marked buttons, accessible washrooms and wheelchairs, so that persons with disabilities can move through the campus.

Lectures, a conference, language and cultural celebrations, and a Women's Day programme gave students and faculty chances to examine rights, identity and shared heritage. Outreach work by the National Service Scheme took students into nearby communities, and research by university authors addressed poverty, equity, health access, gender and the position of marginalised groups.

SDG 11: Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable

INTRODUCTION

A campus as a small city

Sustainable Development Goal 11 calls for cities and human settlements that are inclusive, safe, resilient and sustainable. It looks beyond buildings and roads to the everyday qualities of urban life: access to safe and affordable transport and housing, respect for cultural and natural heritage, protection from disasters, a lighter environmental footprint for cities, and the participation of residents in shaping the places where they live. A university campus is a small city in its own right, which makes the goal directly relevant to how an institution plans, operates and engages with its surroundings.

SRM University-AP approaches the goal in principle through three strands. The first is the planning and stewardship of the campus as a shared, safe and welcoming public space. The second is engagement with the wider community, through student and volunteer initiatives that encourage cleanliness, preparedness and civic responsibility. The third is cultural activity, which brings students and staff from different regions and traditions together and keeps heritage alive. Together they connect the goal's social, environmental and cultural dimensions to daily university life.

FOUR DIMENSIONS OF THE GOAL



A campus is a small city: its streets, festivals, talks and volunteer drives all shape how safe, inclusive and connected its community feels.

SDG 11 DATA AND KEY HIGHLIGHTS

SDG 11 at a glance

13
departmental events mapped to SDG 11
Oct 2024 – May 2025

19
student-affairs events mapped to SDG 11
Aug 2024 – Mar 2025

3,015
participants at Ganesh Chaturthi Visarjan
11 Sep 2024 · highest turnout

131
external attendees at the State Roads M&R workshop
7 Oct 2024

83
publications mapped to SDG 11
2024–2025

590
citations to those publications
2024–2025

34.9%
publications with international collaboration
2024–2025

2
incubated startups with SDG 11 as primary SDG
2024–2025

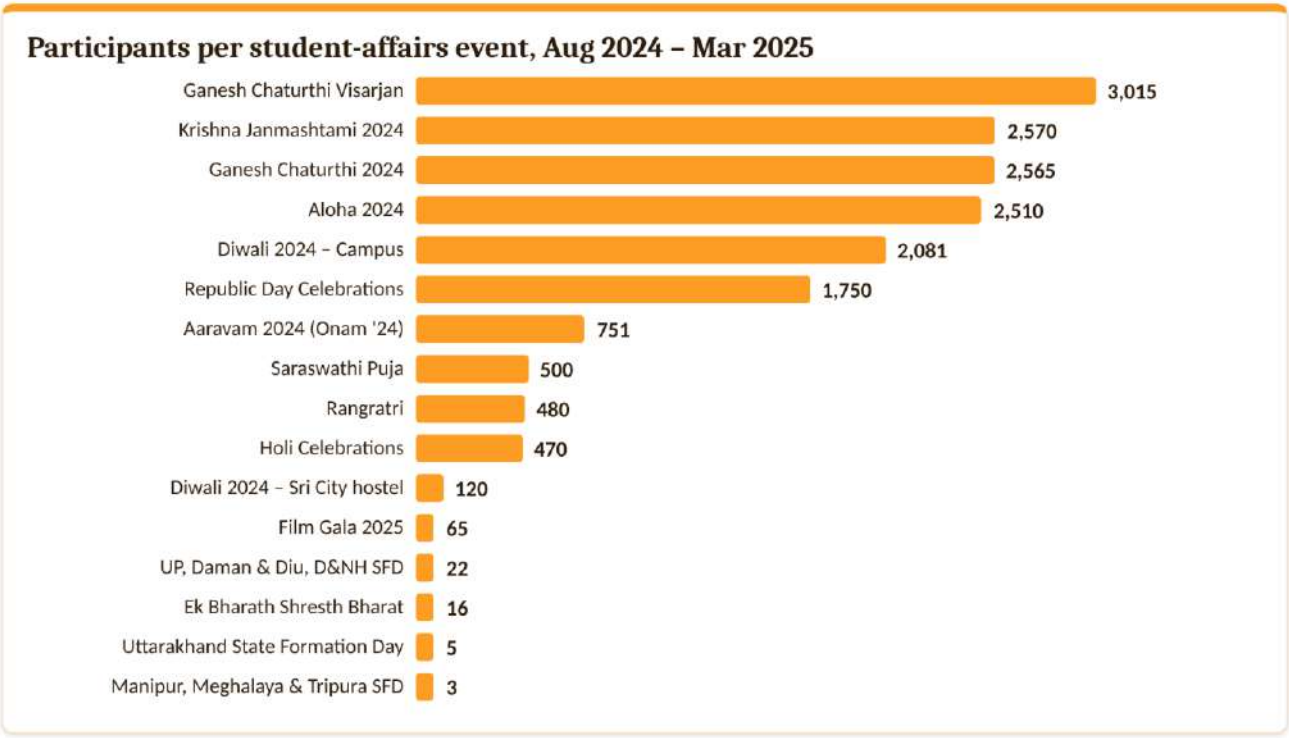
CULTURAL AND HERITAGE INITIATIVES

Festivals, national days and heritage

The University's cultural calendar gives students and staff regular occasions to celebrate together. Festivals from different regions, national days and state formation days sit alongside student-led festivals and a departmental session on documenting a regional cultural heritage.

This section covers the student-affairs events mapped to SDG 11, together with one heritage session from the Department of Arts. Events with photographs are described on the pages that follow.

PARTICIPANTS PER EVENT



REGISTER OF CULTURAL AND HERITAGE EVENTS

Event	Date	Organiser	Level	Participants
Celebration of Krishna Janmashtami 2024	23 Aug 2024	Directorate of Student Affairs	Intra-University	2,570

Event	Date	Organiser	Level	Participants
Ganesh Chaturthi Celebration 2024	7 Sep 2024	Directorate of Student Affairs	Intra-University	2,565
Ganesh Chaturthi Visarjan	11 Sep 2024	Directorate of Student Affairs	Intra-University	3,015
Aaravam 2024 (Onam '24)	17 Sep 2024	Directorate of Student Affairs	Intra-University	751
Aloha 2024	20–21 Sep 2024	Student Council	Intra-University	2,510
Rangratri	10 Oct 2024	Student Council	Intra-University	480
Diwali 2024 – SRM University Campus	30–31 Oct 2024	Student Council & DSA	Intra-University	2,081
Diwali 2024 – External Hostel, Sri City	31 Oct 2024	Directorate of Student Affairs	Intra-University	120
Ek Bharath Shresth Bharat	1 Nov 2024	Governor's Office	Others	16
Uttarakhand State Formation Day	9 Nov 2024	Governor's Office	Others	5
Participation in Manipur, Meghalaya & Tripura State Formation Day	21 Jan 2025	Governor's Office	Inter-University	3
Participation in Uttar Pradesh, Daman & Diu and Dadra & Nagar Haveli State Formation Day	24 Jan 2025	Governor's Office	Inter-University	22
Republic Day Celebrations	26 Jan 2025	DSA & CLM	Intra-University	1,750
Saraswathi Puja (Vasanta Panchami)	2 Feb 2025	Directorate of Student Affairs	Intra-University	500
Holi Celebrations	14 Mar 2025	Directorate of Student Affairs	Inter-University	470
Film Gala 2025	–	Cinemates Club	Inter-University	65
Documenting and Performing a State Cultural Heritage: Ghumat Stories	24 Mar 2025	Department of Arts	Invited talk	6 ext. · 7 fac. · 4 PhD · 7 UG

Aaravam 2024 – Onam celebration

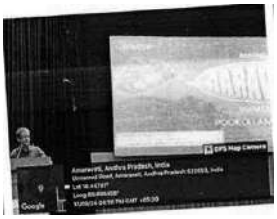
FESTIVAL · 17 SEP 2024

Time & venue: 4–5 pm · APJ Abdul Kalam Auditorium

Organiser: Student Council & Directorate of Student Affairs

Participants: 751 (faculty 15 · PG 45 · UG 691)

A celebration of Onam, the harvest festival of Kerala, with a welcome address, cultural performances and a drama. A floral-carpet (Pookalam) competition with prizes for the winners added to a celebration of togetherness and harmony.



Welcome Address



Culturals



Onam Rangoli



Onam Drama

Aloha 2024 and the Aloha flash mob

CULTURAL FESTIVAL · 18–21 SEP 2024

Aloha 2024: 20–21 Sep 2024 · Student Council · **2,510** participants

Flash mob: 18 Sep 2024, 4:30–6 pm · Basketball Court

Flash-mob participants: PG 300 · UG 1,500

Aloha 2024 is the freshers' cultural festival run by the Student Council. A flash mob was held as a promotional event for Aloha'24; it was a student dance performance to build anticipation for the festival.


Flashmob Dance


Flashmob Dance


Flashmob Dance


Flashmob Dance

Ganesh Chaturthi Celebration 2024

FESTIVAL · 7 SEP 2024

Time & venue: 10:30 am–3:30 pm · SR Block Grand Stairs

Organiser: Student Council & Directorate of Student Affairs

Participants: 2,565 (faculty 15 · PG 50 · UG 2,500)

A campus celebration of Ganesh Chaturthi built around a decorated puja pandal and Ganesh idol. The programme included the puja and aarti, followed by the distribution of prasadam to attendees, with students and staff taking part.


Puja Pandal


Lord Ganesha


Audience


Aarti

Ganesh Chaturthi Visarjan

FESTIVAL · 11 SEP 2024

Time & venue: From 2 pm · SR Block Grand Stairs

Organiser: Directorate of Student Affairs

Participants: 3,015 (faculty 15 · UG 3,000)

The ritual immersion of the Ganesh idol that concludes the festival. The programme included a puja and aarti, devotional singing by students and staff, and the idol being placed on a decorated lorry for the procession to the place of immersion.


Audience


Audience


Crowd


Ganesh Visarjan

Diwali 2024 – SRM University Campus

FESTIVAL · 30–31 OCT 2024

Time & venue: 3–5 pm and 7–8 pm · beside Admin Block and Main Gate No. 3

Organiser: Student Council & Directorate of Student Affairs

Participants: 2,081 (faculty 1 · PG 80 · UG 2,000)

A two-day festival of lights with a rangoli competition, a jamming session, a fireworks display and a cracker distribution.


Rangoli Competition


Fire Works


Cracker Distribution


Rangoli Competition

Rangratri 2024 – Navratri celebration

FESTIVAL · 10 OCT 2024

Time & venue: 6–9 pm · Tree Court Area

Organiser: Student Council

Participants: 480 (faculty 10 · UG 470)

An evening celebration of Navratri with music and dance performances. Prizes were awarded for the best dancer and best dressed participants in the female and male categories, in an evening of colour, music and festive energy.



Dance



Dance



Dance



Dance

Republic Day Celebrations 2025

NATIONAL DAY · 26 JAN 2025

Time & venue: 9–11:30 am · Flag Pole and Atrium

Organiser: Directorate of Student Affairs & Directorate of CLM

Participants: 1,750 (faculty & staff 50 · PG 200 · UG 1,500)

A national-day programme with flag hoisting by the Vice-Chancellor, a parade by the campus security personnel, cultural performances by students and the recognition of achievers.



VC Sir Speech



Flag hoisting and Parade



Cultural Performance



Audience

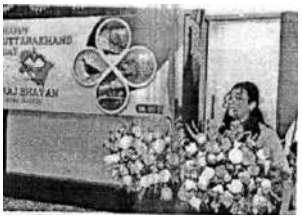
Participation in State Formation Day programmes

STATE FORMATION DAYS · GOVERNOR'S OFFICE

Organiser: Governor's Office (Rajbhavan), Andhra Pradesh

Participating: SRM University-AP students and staff

University students took part in state formation day celebrations hosted by the Governor's Office at Rajbhavan, Vijayawada. The programmes aim to strengthen national bonding, promote cultural exchange and highlight the heritage of each state.



Uttarakhand State Formation Day



Uttarakhand State Formation Day



Manipur, Meghalaya & Tripura



Manipur, Meghalaya & Tripura



Uttar Pradesh, Daman & Diu, D&NH



Uttar Pradesh, Daman & Diu, D&NH

Documenting and Performing a State Cultural Heritage: Ghumat Stories

HERITAGE · 24 MAR 2025

Time & venue: 2–4 pm · Central Library Conference Room

Host: University · Department of Arts

Participants: 6 external · **7** faculty · **4** PhD · **7** UG

An invited talk and round-table session, held as part of a seed-grant project, on the ghumat, a percussion instrument declared the state cultural heritage of Goa in 2019. Six independent artists, among them musicians, a singer, a dancer, a documentary film-maker and a researcher, discussed ecology, labour, social location and aesthetics with students of Sociology and Anthropology. The session closed with the question of whether the ghumat can be a living archive.



Group photograph in the Central Library



Round-table session around a long table

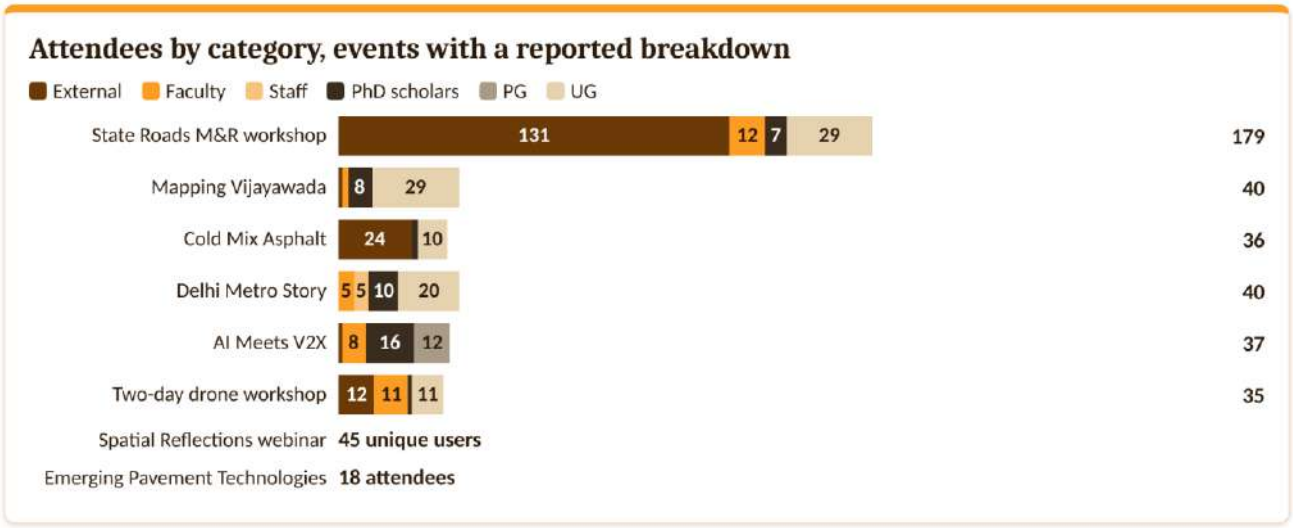
EDUCATIONAL INITIATIVES AND EVENTS

Technical talks and workshops

Departments of the University hosted twelve technical events mapped to SDG 11. Most were organised by the Department of Civil Engineering and the Centre for Geospatial Technology, with others from Electronics and Communication Engineering, Electrical and Electronics Engineering and Environmental Science and Engineering.

The themes are the practical building blocks of safe and resilient cities: road and airport pavements, tunnels, geospatial mapping of an urban area, drones for data acquisition, urban climate, and vehicle-to-everything communication. Several brought in speakers from government agencies, research institutes and industry, and one workshop drew a large external audience.

ATTENDEES BY CATEGORY



REGISTER OF DEPARTMENTAL EVENTS

Event	Date	Department / host	Format	Attendees
AI Meets V2X: Enabling Smart, Safe, and Scalable Vehicular Networks	6–7 Feb 2025	Electronics & Communication Engg.	Invited talk	1 ext. · 8 fac. · 16 PhD · 12 PG

Event	Date	Department / host	Format	Attendees
Invited Talk / Guest Talk – The Delhi Metro Story	19 Mar 2025	Electrical & Electronics Engg.	Guest talk (online)	5 fac. · 5 staff · 10 PhD · 20 UG
Airport Pavement Materials and Design	22 Nov 2024	Civil Engineering	Guest lecture (webinar)	–
Emerging Pavement Technologies	6 Dec 2024	Civil Engineering	Technical talk (hybrid)	18
Five day workshop on QGIS	26–30 May 2025	Civil Engg. / Centre for Geospatial Technology	Workshop (online)	–
Industry Guest Lecture on "Design and Construction of Tunnels"	26 Nov 2024	Civil Engineering	Guest lecture (webinar)	–
Invited Talk – Cold Mix Asphalt Technology for India	26 Mar 2025	Civil Engineering	Guest lecture	24 ext. · 2 PhD · 10 UG
Invited Talk – Mapping of Vijayawada and its Neighbourhood using Geospatial Technology	24 Oct 2024	Civil Engineering	Guest lecture	1 ext. · 2 fac. · 8 PhD · 29 UG
Panel discussion in Two day workshop on drone assembly and deployment for geospatial data acquisition	6 Mar 2025	Civil Engg. / Centre for Geospatial Technology	Technical discussion	Included in the two-day workshop
Spatial Reflections Webinar Series: urban climate	27 Nov 2024	Environmental Science & Engineering	Webinar (Zoom)	45 unique users
1-day workshop on state roads maintenance and rehabilitation: best practices and challenges	7 Oct 2024	Civil Engineering	Workshop	131 ext. · 12 fac. · 7 PhD · 0 PG · 29 UG
Two day drone design and deployment for geospatial data acquisition	6–7 Mar 2025	Civil Engg. / Centre for Drone Technology	Workshop	12 ext. · 11 fac. · 1 PhD · 0 PG · 11 UG

AI Meets V2X: Enabling Smart, Safe, and Scalable Vehicular Networks

INVITED TALK · 6–7 FEB 2025

Host: Department of Electronics and Communication Engineering

Resource person: Dr Pradeep Chennakesavula, Senior Researcher, Hon Hai Research Institute (Foxconn), Taipei

Attendees: 1 external · 8 faculty · 16 PhD scholars · 12 PG

The talk examined how AI can support vehicle-to-everything (V2X) communication to predict and ease traffic congestion, improve coordination between vehicles and enable accident prediction and proactive alerts. The guest also visited research facilities of the department, which led to a discussion on research collaboration.



Attendees seated at desks in a classroom

The Delhi Metro Story

GUEST TALK · 19 MAR 2025

Host: Department of Electrical and Electronics Engineering · online

Resource person: Mr Sekh Samim, Deputy Chief Architect, Delhi Metro Rail Corporation Ltd

Attendees: 5 faculty · 5 staff · 10 PhD scholars · 20 UG

A talk on the role of Building Information Modelling in the Delhi Metro and on transit-oriented development, drawing on the speaker's work on metro stations, depots and multi-modal integration projects.



Event poster

Airport Pavement Materials and Design

GUEST LECTURE · 22 NOV 2024

Host: Department of Civil Engineering · X-Lab 206 (webinar)

Resource person: A. Ramalingeswara Rao, Associate Vice President, Navi Mumbai International Airport Pvt. Ltd.

The lecture covered the design of pavements that withstand high loads and frequent use, the properties and selection of airport pavement materials, and real-world construction and maintenance challenges, with a question-and-answer session.


Students seated at desks in a classroom

Emerging Pavement Technologies

TECHNICAL TALK · 6 DEC 2024

Host: Civil Engineering · MoU activity with R&B, Govt. of AP

Resource persons: Dr Amaranatha Reddy (IIT Kharagpur); Dr Uma Maheswar A

Attendees: 18 (PhD scholars, R&B engineers, B.Tech students)

Cost-effective rehabilitation techniques for urban and high-volume roads, including white topping and short-slab concrete pavements, and new pothole-patching technologies such as heat-assisted patching.


Speaker at the front of a lecture room


People standing together at the front of a room

Five-day workshop on QGIS

WORKSHOP · 26–30 MAY 2025

Host: Centre for Geospatial Technology · online

Speakers: Dr Kousik Das, Prof. Rupesh Kumar, Dr Subhashree, Dr Javid Ahmed Dhar; special lecture by Dr B. Sundar, I.F.S.

Ten sessions on open-source GIS covering shapefiles, georeferencing, projections, spatial analysis and thematic mapping, with attention to environmental and infrastructure planning. Advanced topics included Google Earth Engine, kriging and overlay analysis, UAV integration and the Drone Rules 2021.


Screenshot of an online video session with participants

Design and Construction of Tunnels

GUEST LECTURE · 26 NOV 2024

Host: Department of Civil Engineering · X-Lab 206 (webinar)

Resource person: Mr T. Suresh Kumar, Sr Geotech Engineer-PM, GEOCONSULT India, Gurugram

An introduction to tunnel design and construction, from site investigation and feasibility to tunnelling methods such as cut-and-cover, drill-and-blast and tunnel boring machines, and their suitability for different conditions.



Students seated at desks



Students at desks with a screen and tripod

Cold Mix Asphalt Technology for India

GUEST LECTURE · 26 MAR 2025

Host: Department of Civil Engineering · SR Block S212

Resource person: Dr Nagabhushana M.N., Senior Principal Scientist (Retd), CSIR-CRRI, New Delhi

Attendees: 24 external · 2 PhD scholars · 10 UG

The talk presented the principles and composition of cold mix asphalt, its sustainability benefits and cost-effectiveness, and its use in the construction and maintenance of roads, including government policies and specifications for its adoption.



Attendees seated in a classroom



Attendees seated in a classroom

Mapping of Vijayawada and its Neighbourhood using Geospatial Technology

GUEST LECTURE · 24 OCT 2024

Host: Department of Civil Engineering · SR Block 212

Resource person: Dr Ramachandra Prasad, Associate Professor, IIIT Hyderabad

Attendees: 1 external · 2 faculty · 8 PhD scholars · 29 UG

The lecture showed how GIS, GPS and remote sensing are used to map and analyse the urban landscape of Vijayawada, with case studies and discussion on integrating geospatial data into urban planning and disaster-preparedness strategies.



Audience seated, presenter at the front



Audience seated, presenter at the front

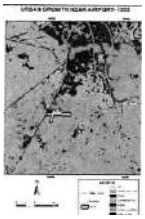
Spatial Reflections Webinar Series: Urban climate through the lens of geospatial technology

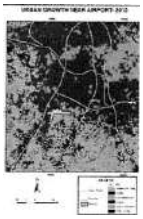
WEBINAR · 27 NOV 2024

Host: Centre for Geospatial Technology · Zoom

Resource person: Dr Asfa Siddiqui, Scientist-E, Indian Institute of Remote Sensing, ISRO

The speaker covered night-time lights as a proxy for urban sprawl, the rise in land surface temperature in New Delhi from 1993 to 2011, the urban heat island effect, and recommendations on transport, building design and action plans.


Map titled “Urban Growth near Airport – 1993”


Map titled “Urban Growth near Airport – 2013”


Screenshot of an online session

State Roads Maintenance and Rehabilitation (M&R): Challenges and Best Practices

WORKSHOP · 7 OCT 2024

Host: Department of Civil Engineering · Theatre, SR Block

Guests: Sri B.C. Janardhan Reddy, Minister of Roads and Buildings, Govt. of AP; Prof. Manoranjan Parida, Director, CSIR-CRRI; Sri Kantilal Dande, IAS, Principal Secretary, R&B

External funding: INR 1,80,000

Attendees: 131 external · 12 faculty · 7 PhD scholars · 29 UG

A one-day workshop on sustainable maintenance and rehabilitation of state roads, covering rehabilitation techniques, ground improvement for canal roads and cost estimates for recycling. The closing panel recommended pilot studies in Andhra Pradesh to monitor performance.


Stage with banner and seated dignitaries


Attendees seated in auditorium rows


Large group of attendees seated together

Two-day Drone Design and Deployment for Geospatial Data Acquisition, with panel discussion

WORKSHOP · 6–7 MAR 2025

Host: Civil Engineering · Centre for Drone Technology · CV202, ALC Admin Block

Resource persons: Prof. Ramachandra Prasad (IIIT Hyderabad); Mr Manjunath (Skyeris Aerotech); Mr Charan (Vyomik Drones)

Attendees: 12 external · 11 faculty · 1 PhD scholar · 11 UG

A hands-on workshop on drone assembly, deployment and data collection for uses such as pavement monitoring and construction management. On 6 Mar a panel of experts from APSAC, academia and start-ups discussed the adoption and future of drones in India, including smart cities, disaster response and infrastructure monitoring.


Participants in a workshop room


Participants in a workshop room


Participants at tables


Seated panel at the front of a room

COMMUNITY OUTREACH ACTIVITIES

Cleanliness, hygiene and disaster awareness

Student and volunteer initiatives put the goal’s everyday themes of clean, safe and prepared communities into practice. The three activities below are mapped to SDG 11.

Swachh Bharat Abhiyan – Swachhata video competition

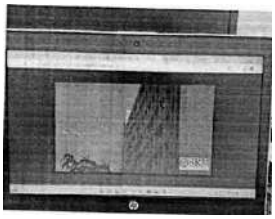
AWARENESS PROGRAMME · 21 AUG 2024

Time & mode: 10–10:30 am · online

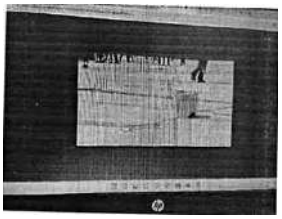
Organiser: Student Council & Directorate of Student Affairs

Participants: 19 (UG)

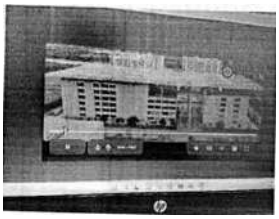
An online video competition held in support of the Swachh Bharat Abhiyan, inviting students to show the importance of cleanliness and hygiene. First and second prizes were awarded for the submissions judged most creative and effective.



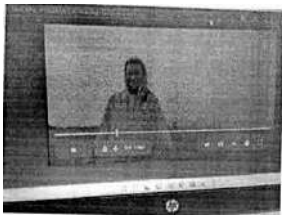
Cleanliness video on a laptop screen



Cleanliness video on a laptop screen



Cleanliness video on a laptop screen



Cleanliness video on a laptop screen

Lecture on Disaster Relief and Management

LECTURE · 9 NOV 2024

Time & venue: 3–5 pm · Theatre and Grand Stairs

Organiser: NSS Cell – SRM AP

Resource person: Mr N. Gopalakrishna, National Disaster Response Force (NDRF)

Participants: 201 (external 5 · faculty/staff 70 · UG 126)

An NSS lecture and demonstration that introduced the role of the NDRF and the basics of disaster management, relief operations and preparedness, and the importance of community involvement in building resilience.



Disaster Relief Slide Presentation



Disaster Relief Demonstration



Audience



Group Photograph

Campus Cleaning Drive by NSS Cell

COMMUNITY DRIVE · 12 FEB 2025

Organiser: NSS Cell – SRM AP

Participants: 69

A cleaning drive on campus carried out by volunteers of the NSS Cell.

RESEARCH AND PUBLICATIONS

SDG 11 research output, 2024–2025

SRM University-AP has 83 publications mapped to SDG 11 for 2024 and 2025. The work spans transport and mobility, vehicular and IoT networks, urban environment, structural safety and disaster-related studies, with waste management also among the leading key phrases.

83	1.78	590
Scholarly output	Field-Weighted Citation Impact	Citation count
2,100	**29**	**34.9%**
Views count	Publications with international collaboration	International collaboration

TOP KEY PHRASES

Smart City · Internet of Vehicles · Intelligent Transportation System · Vehicular Ad-Hoc Network · Municipal Solid Waste · Ash · Waste Management · Traffic Control · Key Management · Internet-Of-Things · Blockchain · Edge Computing · Artificial Intelligence · Waste Treatment · Resource Allocation

Field-Weighted Citation Impact

Citations received relative to the average for similar publications; 1.00 is the world average for the same field, year and publication type.

International collaboration

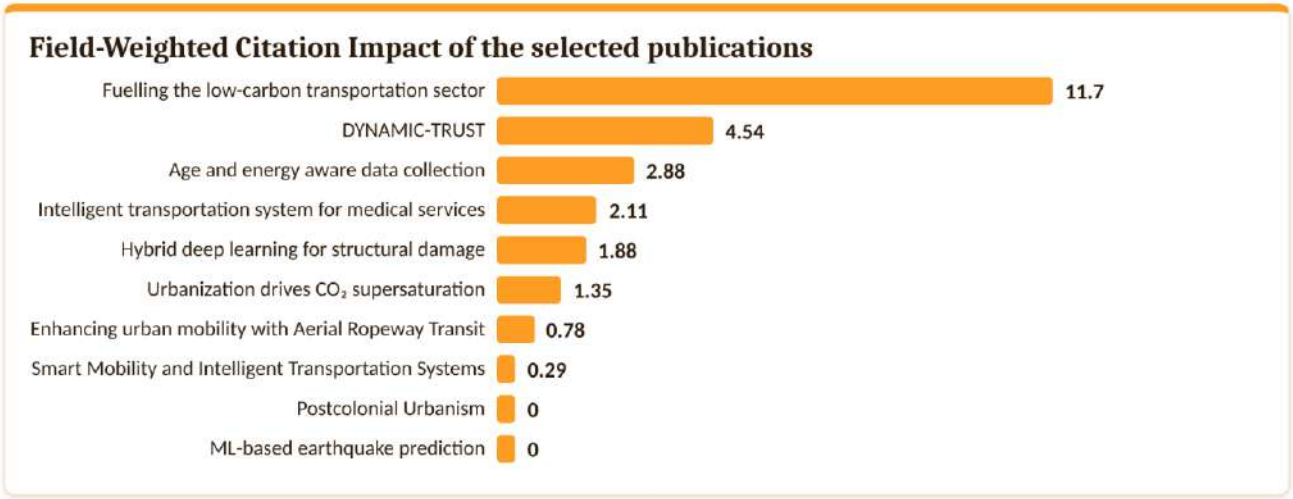
Publications co-authored with institutions in other countries or regions: 34.9% of the 83 publications (29 publications).

Academic–corporate collaboration

Publications with both academic and corporate affiliations: 1.2% of the 83 publications.

SELECTED PUBLICATIONS

#	Title, first author and DOI	Year	Type	CiteScore	FWCI
1	**Age and energy aware data collection scheme for urban flood monitoring in UAV-assisted Wireless Sensor Networks** Raju, M.R. et al. · DOI 10.1016/j.adhoc.2024.103704	2025	Article	9.9	2.88
2	**Enhancing Urban Mobility with Aerial Ropeway Transit (ART): Future Accessibility Impacts of Multimodal Transit Expansion Scenarios** Pani, A. et al. · DOI 10.1177/03611981241270180	2025	Article	4.1	0.78
3	**Fuelling the low-carbon transportation sector in emerging economies: Role of institutional quality, environmental tax, green technology innovation and biofuel** Behera, B. et al. · DOI 10.1016/j.tranpol.2025.03.006	2025	Article	10.3	11.7
4	**Urbanization Drives Carbon Dioxide Supersaturation in South Asian River Networks: Insights from the Krishna River Basin, India** Singh, R. et al. · DOI 10.1021/acsestwater.4c00947	2025	Article	6.3	1.35
5	**Postcolonial Urbanism: Making and Unmaking of World-Class City in Amaravati** Bikku, M.S. et al. · DOI 10.4324/9781032694337-25	2024	Chapter	–	0
6	**A Hybrid Deep Learning Model for Enhanced Structural Damage Detection: Integrating ResNet50, GoogLeNet, and Attention Mechanisms** Singh, V. et al. · DOI 10.3390/s24227249	2024	Article	8.2	1.88
7	**DYNAMIC-TRUST: Blockchain-Enhanced Trust for Secure Vehicle Transitions in Intelligent Transport Systems** Surapaneni, P. et al. · DOI 10.1109/TITS.2025.3545755	2025	Article	20.5	4.54
8	**Intelligent transportation system for automated medical services during pandemic** Singh, A.K. et al. · DOI 10.1016/j.future.2024.107515	2025	Article	17	2.11
9	**Smart Mobility and Intelligent Transportation Systems for Commercial and Hazardous Vehicles** Poongodi, T. et al.	2024	Book	–	0.29
10	**Machine Learning-Based Earthquake Prediction Model: A Comparative Study of Time Series Analysis and Conventional Algorithms** Kumar, S. et al. · DOI 10.1007/978-981-96-9529-4_2	2025	Conference Paper	0.6	0



STARTUPS AND INNOVATION

Startups with SDG 11 as their primary goal

Two startups supported by the Directorate of Entrepreneurship list SDG 11 as their primary goal. One addresses student transport and the other helps neighbours connect and support one another.

MOBILITY SERVICES · SOCIAL IMPACT FOCUS: SUSTAINABILITY

Back and Forth Solutions Private Limited

An open-pooling service provider for student transportation, founded by a student of the University.

Founder: Mr Suhuruth ram (student)
Legal entity: Pvt Ltd, incorporated 20 Feb 2024
Incubation:15 Apr 2024 – 15 Oct 2025
Funding: Rs. 50,000 (category: Others) from the Directorate of Entrepreneurship
Revenue: No
MoU: Signed 15 Apr 2024 · duration 365 days
Patents: Filed: Nil · granted/licensed: Nil
Tech transfer: No

SAAS AND DEEP TECH · SOCIAL IMPACT FOCUS: SUSTAINABILITY

MRDOTS Solutions Pvt Ltd

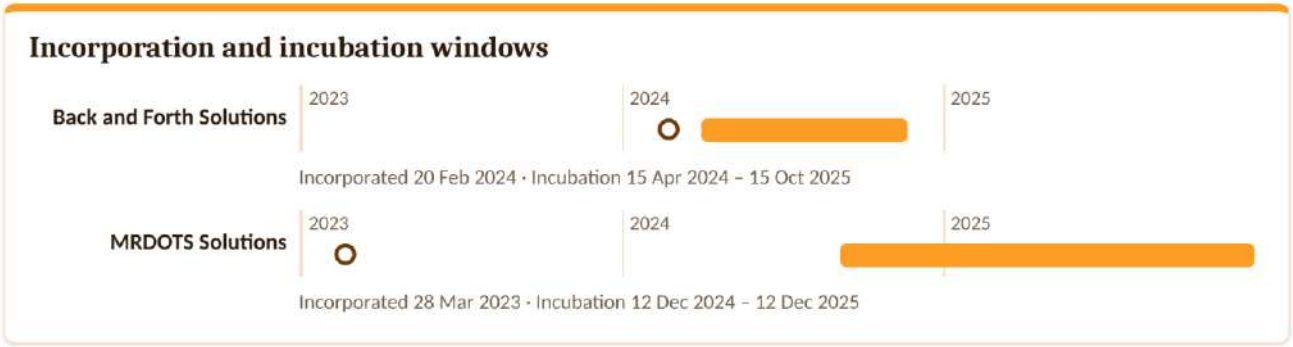
A social app that helps people connect with others around them for spontaneous activities, discussions or simply to help.

Founder: Mr Akhil (alumnus)
Legal entity: Pvt Ltd, incorporated 28 Mar 2023
Incubation:12 Dec 2024 – 12 Dec 2025
Funding: Rs. 50,000 (category: Others) from the Directorate of Entrepreneurship
MoU: Signed 12 Dec 2024 · duration 365 days
Tech transfer: No

Rs. 50,000
Funding recorded for each startup
Category: Others · Directorate of Entrepreneurship

365 days
MoU duration for each startup
Signed 15 Apr 2024 and 12 Dec 2024

2
Startups with SDG 11 as primary SDG
Incubated 2024–2025



CONCLUSION

Progress towards sustainable cities and communities

Taken together, the records in this section show SDG 11 at SRM University-AP as a blend of learning, community and culture. Technical talks and workshops on pavements, geospatial mapping, urban climate and vehicular networks prepare students to work on the built environment; student-led cleanliness and disaster-awareness activities build a culture of care and preparedness; and a full calendar of festivals, national days and heritage sessions brings the campus community together. Research mapped to the goal addresses urban mobility, infrastructure safety and resilience, and two incubated startups apply the same concerns to student travel and neighbourhood connection.

SDG 12: Responsible Consumption and Production

Ensure sustainable consumption and production patterns

INTRODUCTION

Doing more and better with less

Sustainable Development Goal 12 calls for sustainable consumption and production patterns. It asks societies to do more and better with less: to use natural resources efficiently, to prevent waste at its source, and to reduce, reuse and recycle what cannot be avoided. The goal extends from production to the final disposal of materials and encourages organisations to manage chemicals and wastes responsibly, to adopt cleaner and more circular ways of making and using things, and to help people everywhere become aware of how their choices affect the environment.

SRM University-AP follows these principles in teaching, research, campus operations and engagement with the wider community. The campus is treated as a living laboratory in which organic residues are handled where they arise and returned to use, wastewater is treated on site, and students and staff are invited to take part in cleanliness, e-waste and resource-awareness activities. Academic staff and student founders carry the same thinking into research on waste valorisation and the circular economy, and into new ventures that turn waste streams into products. The sections that follow set out these contributions.

> **On this campus, waste is treated as a resource: food and garden residues return to the soil, wastewater returns to the landscape, and students and researchers help close the loop.**

SDG 12 KEY HIGHLIGHTS

SDG 12 at a glance

9
events and outreach activities mapped to SDG 12
Aug 2024 – Apr 2025

3
incubated startups with SDG 12 as primary SDG
2024–2026

115
publications mapped to SDG 12
2024–2025

100 kg/day
food-waste input for the 6 m^3 biogas plant

9,704
LEDs on campus

6
electric vehicles available

86.97 t
CO_2e reduction compared with the previous year

4
carbon offset programmes

RESOURCE EFFICIENCY AND RESPONSIBLE CONSUMPTION

Efficient equipment, clean mobility and lower emissions

Efficient equipment on campus

The campus uses 9,704 LEDs, which supports efficient lighting across buildings. Air movement and comfort are served by 1,432 ceiling fans, 43 pedestrian fans and 47 exhaust fans, and 39 lifts are available for vertical movement within the campus.

9,704	1,432	43	47	39
LEDs	ceiling fans	pedestrian fans	exhaust fans	lifts

Electric vehicles

The campus has 6 electric vehicles; a choice made with local pollution in mind. A battery-operated electric vehicle is used mainly to carry visitors on campus tours and runs for nearly 4–5 hours a day. It is charged every day at a charging point inside the campus and covers nearly 30–40 km on a single charge. Some faculty members also use electric two-wheelers for their regular official visits, and the university sees it as a welcome step that calls for more awareness among faculty and students.



A white open electric cart with bench seats parked on a paved area in front of shrubs and a building.



Three white vehicles, two open-sided mini-buses and a cart, parked inside a large hall.

Emissions and carbon offset

Total annual greenhouse gas emissions from the institution are 11,968 metric tons of CO2 equivalent. The annual emission reduction target is 3.83%, or 1,197 metric tons, and a reduction of 86.97 metric tons of CO2 equivalent has been achieved compared with the previous year. Four carbon offset programmes are implemented, namely an EV cart, a biogas plant, tree plantation and solar PV units, and emission levels are monitored quarterly.

11,968 t	3.83%	86.97 t	4
total annual greenhouse gas emissions (CO_2e)	annual reduction target (1,197 t)	reduction achieved compared with the previous year	carbon offset programmes: EV cart, biogas plant, tree plantation, solar PV

RESPONSIBLE USE OF RESOURCES

Good practice from the campus energy and resource review

Findings from the campus energy, environment and green review (April 2024 to March 2025) that bear on responsible resource use, waste handling and good practice.

Responsible use of cooking fuel: cylinder tag monitoring

A cylinder tag system supports tracking of the liquefied petroleum gas used in the kitchens. Each cylinder carries a history tag showing its weight at purchase, the date and time of service and of relief, and its empty weight. Each

month the cylinders completed and those in line, with the kilograms of gas remaining, are quantified, converted into a financial value to obtain Rs./kg, and displayed so that users are motivated to save fuel.

Records for wastewater and sludge

Good practice includes keeping manual or digital records of the STP water input, treatment and wastewater, and of the sludge quantity and usage. These records allow the quantity of wastewater treated and of sludge produced and reused to be followed over time.

Green-building practices for waste reduction

Integrated green-building practice supports the reduction of waste materials during construction and in occupancy, best practices for handling organic and non-organic wastes, and lesser use of virgin materials during construction. It forms the plan for the university's future buildings.

WASTE MANAGEMENT AND SUSTAINABLE PRACTICES

Waste handled where it is produced

Waste at SRM University-AP is handled close to where it is produced. Food and garden waste is converted into manure and gas, and wastewater is treated biologically on site.

Organic waste converter and vermicompost yard

The university has set up a vermicompost yard so that food waste and fallen leaves are disposed of properly and returned to the soil as manure. Food waste collected from all messes and quarters is mixed in a suitable ratio with dead leaves collected inside the campus. The mixture is fed into a dedicated machine, where sand and sawdust are blended in, and is then held in cement bags to decompose for a specified period. Once it has returned to a thick black colour, the material is packed in small bags in appropriate quantities and handed to the gardening staff for use as organic manure. Because the waste decomposes naturally, the product is treated as organic manure that does not harm the soil.



Shelving with stacked green and red crates inside a covered shed.



A blue machine and a grey control cabinet inside a covered shed, with a green crate at the lower left.

Biogas plant for food and vegetable waste

Food and vegetable waste generated in the mess and canteen, such as cooked rice, vegetable cuttings and unused vegetables, is processed in a biogas plant rather than discarded. The waste is crushed in a mixer grinder and made into a slurry with water, and microorganisms then break down the organic matter by anaerobic digestion. The plant size is 6 m^3 with a waste quantity of 100 kg/day, mixed with 100 litres of water in a 1:1 ratio.



A round green dome-shaped tank with an orange cylinder, a blue bucket and a metal frame, under a roof.

Biopipe sewage treatment plant

The campus operates a Biopipe sewage treatment plant, a biological system that treats domestic and industrial wastewater without added chemicals and without mechanical aeration. It is odour-free and free of excess sludge, compact and modular so that it can be expanded as needed, low in power consumption compared with conventional aeration-based plants, and low in maintenance. The treated water is suitable for non-potable uses such as irrigation and flushing, which lets the university reuse water instead of drawing fresh supply for every purpose.



Open double doors of a mesh-fronted shed with racks of pipes visible inside.



Pipework and a control panel beside storage tanks under a roof.



Rows of white pipes arranged in racks beside a white column.

Treated-water reuse in campus landscaping

Reuse of treated water for irrigation keeps the campus green without added fresh-water demand. The photographs show lawns fitted with sprinklers and a campus drainage channel.



Grass lawn with a sprinkler head visible among the blades.

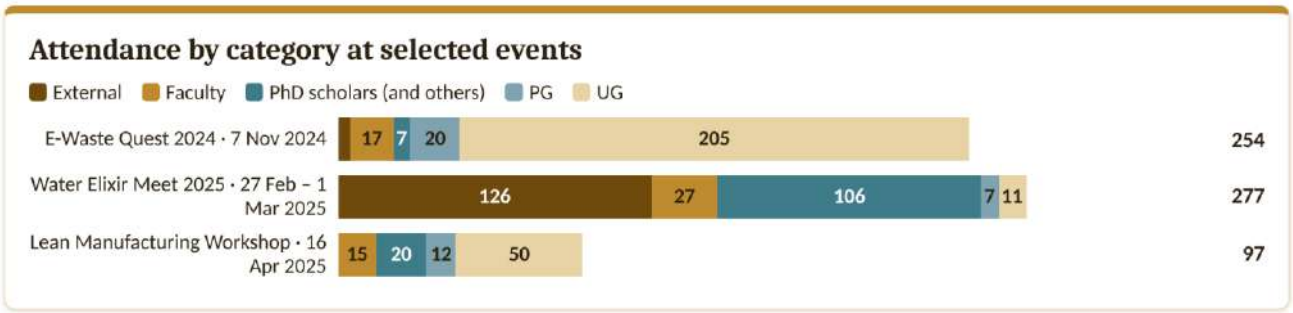


A grassy slope beside a paved path, with a sprinkler head visible.

EVENTS AND INITIATIVES

Learning and action on waste, water and materials

ATTENDANCE AT SELECTED EVENTS



E-Waste Quest: Find, Recycle and Revive (EWQ-2024)

Date: 7 November 2024, 11 AM to 5:30 PM

Venue: APJ Abdul Kalam Auditorium, SRM University-AP

Organiser: Department of Environmental Science and Engineering

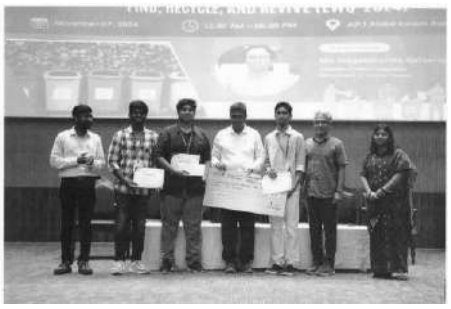
Attendance: 5 external, 17 faculty, 7 PhD scholars, 20 PG and 205 UG

A poster presentation held under the Generation Green (Gen G) campaign, which encourages young people to adopt green skills and to manage electronic waste through repair, reuse and recycling. It followed the International E-Waste Day slogan “Retrieve, Recycle and Revive”. The Collector and District Magistrate of Guntur was the chief guest. Posters were presented on themes such as metal recovery and sustainable business models, the future of e-waste technologies, the environmental impact

of e-waste and community engagement, and awards were presented to the best posters. The event helped build a culture of sustainability among students, staff and faculty and educated the community on proper disposal of electronic waste.



Seated audience in a hall during the event.



Seven people standing in a row on a stage in front of a screen, some holding certificates and a large cheque.

Water Elixir Meet (WE Meet 2025)

Date: 27 February to 1 March 2025, 9 AM to 5 PM each day

Venue: SRM University-AP

Type and organiser: International conference, Department of Environmental Science and Engineering

Attendance: 126 external, 27 faculty, 106 PhD scholars and others, 7 PG and 11 UG

An international conference on sustainable water use and management, with keynote sessions by three foreign delegates and six national experts on climate-resilient water systems, membrane separation, digital innovation and community-led water stewardship. The conference led to partnerships between academic institutions, industry and policy bodies on microplastic pollution, PFAS contamination, saltwater intrusion and circular water economies, and produced a compendium of research abstracts and a policy brief. Technical sessions, poster presentations and mentorship opportunities supported early-career researchers and students.



A projection screen and podium on a stage, with a seated audience below.



A decorated stage with a lit lamp and a projected presentation.

Atmanirbhar Bharat: Innovations in Lean Manufacturing for the Automotive Industry

Date: 16 April 2025, 9:30 AM to 5:30 PM

Venue: Tiered Classroom, Homi J. Bhabha Block

Type and organiser: Workshop, Department of Mechanical Engineering

Attendance: 15 faculty, 20 PhD scholars, 12 PG and 50 UG

A one-day workshop with two industry speakers on lean manufacturing principles, electric-vehicle manufacturing, Industry 4.0 and automation. Its objectives include strategies for waste reduction to raise productivity and insights into sustainable manufacturing practices that reduce the carbon footprint. Participants gained an understanding of lean concepts for improving efficiency and reducing costs and of how automation integrates with lean systems, and the event opened opportunities for internships and projects.



Two people standing beside a presentation screen; one holds a bouquet.



A seated audience in a classroom with a man standing in front of them.

Technical Talk: Emerging Pavement Technologies

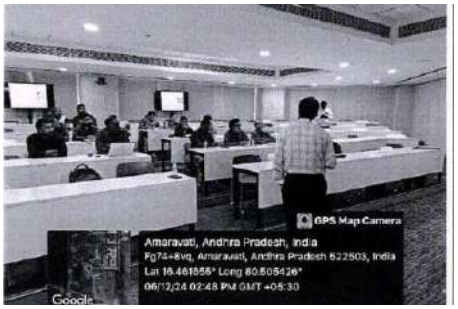
Date: 6 December 2024, 2:30 PM to 4:30 PM

Venue: C-302, CV Raman Block (hybrid mode)

Type and organiser: Technical talk series under an MoU activity between SRM University-AP and R&B, Government of Andhra Pradesh; Department of Civil Engineering

Attendance: 18 (PhD scholars, engineers from R&B, Government of Andhra Pradesh, and B.Tech students)

A talk on cost-effective rehabilitation techniques for urban and high-volume roads and on new technologies for pothole patching. It covered white-topping and short-slab concrete pavements, heat-assisted pothole patching and the use of robotics and automation in pothole detection and repair. Participants gained an understanding of these methods and a chance to connect with industry experts for future collaboration.



A classroom with seated participants and a person standing at the front.



A group of people standing in a row in front of a presentation screen.

Technical Talk: Steel Slag Production and Waste Generation at Vizag Steel Plant

Date: 12 November 2024, 2:30 PM to 4:30 PM

Venue: Engineer-in-Chief Cabin, R&B, Government of Andhra Pradesh, Vijayawada

Type and organiser: Technical talk under an MoU activity between SRM University-AP and R&B, Government of Andhra Pradesh; Department of Civil Engineering

Attendance: 6 members (R&B, SH and MDR officials and SRM University-AP faculty)

A presentation by the Deputy General Manager of Vizag Steel Plant on how steel slag is produced and generated at the plant, followed by a discussion on using this waste in road construction. Very large volumes of slag are generated, and the waste must be weathered before it can be used in construction. The Engineer-in-Chief's office suggested a pilot study around the Vizag area and a trial road section near the university to monitor performance.



People seated around a conference table in an office.



Participants seated around a large table in a meeting room.

ICP-OES Training

Date: 12 February 2025, 10 AM to 5 PM

Venue: SRM University-AP

Type and speaker: Training session by an application manager from Thermo Fisher Scientific

Attendance: 4 PhD scholars

A training session that explained and demonstrated the operation and maintenance of an inductively coupled plasma optical emission spectrometer, together with the safety measures needed for accurate, reliable and consistent instrument performance.



A dim photograph of people gathered near laboratory equipment.



A dim photograph of people standing and sitting around an instrument.

COMMUNITY OUTREACH ACTIVITIES

Cleanliness, awareness and outreach

Cleanliness drives, awareness competitions and outreach days extended sustainability messages beyond the classroom and, in one case, beyond the campus.

Swachh Bharat Abhiyan – Swachhata (Cleanliness Video Competition)

Date: 21 August 2024, 10 AM to 10:30 AM

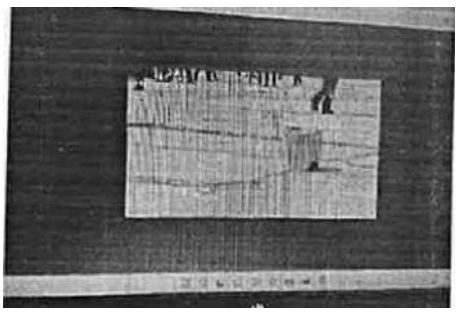
Mode: Online awareness programme

Organiser: Student Council with the Directorate of Student Affairs

Attendance: 19 UG

In line with the objectives of the Swachh Bharat Abhiyan, which include better solid-waste management, cleanliness and hygiene in public spaces and community participation, the Student Council organised an online video competition on cleanliness and hygiene. Students could take part individually or in groups of up to five and submit videos of up to 120 seconds on keeping the classrooms, canteen, hostels, mess and sports ground clean. A panel of judges selected two prize-winning videos for creativity, relevance and impact.


A screenshot on a laptop screen showing a view of a multi-storey building.


A screenshot on a laptop screen showing a video frame.

Campus Clean Drive

Date: 22 January 2025, 2 PM to 4 PM

Venue: SRM University-AP campus

Organiser: National Service Scheme (NSS), with the Directorate of Student Affairs as contact

Attendance: 1 faculty member and 18 UG students

A cleaning drive conducted to keep the campus clean. Its two objectives were to spread awareness about cleanliness and public hygiene and to ensure the cleanliness of campus premises. Students were made aware of public hygiene, and the surroundings were cleaner as a result.



Students holding brooms and a bag while cleaning a landscaped area.



Students sweeping a paved area with brooms.

ChemZeal 3 – A Day for Chemistry

Date: 30 November 2024, 9:30 AM to 5 PM

Venue: APJ Abdul Kalam Auditorium

Organiser: Department of Chemistry (outreach activity)

Attendance: 315 external, 22 faculty, 17 PhD scholars and 6 PG

An annual outreach day organised by the Department of Chemistry together with the Directorate of Admissions for BSc and Intermediate students from nearby colleges. The programme combined a talk by a visiting electrochemist with a science exhibition and hands-on experiments related to everyday life, and gave visitors a view of the university's laboratories. The event drew a strong response from students and teachers, and the department plans to continue it in the coming years.



A speaker at a podium beside a projected slide titled "ChemZeal 3 - 2024".



A large seated audience in a tiered auditorium.

RESEARCH AND PUBLICATIONS

Research on waste, recovery and circular production

SRM University-AP has 115 publications mapped to SDG 12 for 2024–2025. The works below are those most directly concerned with waste, resource recovery and circular production, grouped by theme.

E-WASTE, BATTERY RECYCLING AND METAL RECOVERY

Title, authors and DOI	Year	Type
Policy pathways to sustainable E-waste management: A global review Grandhi, S.P.; Dagwar, P.P.; Dutta, D. · DOI 10.1016/j.hazadv.2024.100473	2024	Article
Applications of deep eutectic solvents in metal recovery from E-wastes in a sustainable way Suffia, S.; Dutta, D. · DOI 10.1016/j.molliq.2023.123738	2024	Review
Sustainable recovery of rare Earth elements from industrial waste: A path to circular economy and environmental health Dagwar, P.P.; Iqbal, S.S.; Dutta, D. · DOI 10.1016/j.wmb.2025.02.004	2025	Review
Upcycling of Li-Ion Battery Recycling Residues to Graphene Oxide: Life Cycle Hotspots and Production Scale Impacts	2025	Article

Title, authors and DOI	Year	Type
Nandikes, G.; Goswami, L.; Oh, S. et al. · DOI 10.1021/acssuschemeng.5c05262		
Recovery of metals from spent lithium-ion batteries using agricultural waste, applications and circularity framework Iqbal, S.S.; Ramadan, N.; Dagwar, P.P. et al. · DOI 10.1016/j.seppur.2025.133860	2025	Article

ORGANIC WASTE, FOOD WASTE AND THE CIRCULAR BIOECONOMY

Title, authors and DOI	Year	Type
Sustainable mitigation and management of segregated organic wastes: a socio-economic-environmental analysis for metropolitan cities Carbonel, D.; Nandikes, G.; Pandey, N. et al. · DOI 10.1080/02772248.2025.2486821	2025	Article
Anaerobic digestion-derived digestate valorization: green chemistry innovations for resource recovery and reutilization Jacob, S.; Kundu, D.; Chintagunta, A.D. et al. · DOI 10.1039/d5gc01053e	2025	Review
Advances on characteristics and valorization of food waste towards the sustainable production of bio-methane and purification Sethupathy, A.; Arun, C.; Vigneswaran, V.S. et al. · DOI 10.1016/j.fuel.2024.131388	2024	Review
Advancements in microbial production of polyhydroxyalkanoates (PHA) from wastes for sustainable active food packaging: An eclectic review Adak, S.; Kayalvizhi, R.; Bishai, M. et al. · DOI 10.1016/j.bcab.2024.103288	2024	Review

SMART WASTE CLASSIFICATION AND PLASTIC USE

Title, authors and DOI	Year	Type
Intelligent waste classification approach based on improved multi-layered convolutional neural network Chhabra, M.; Sharan, B.; Elbarachi, M. et al. · DOI 10.1007/s11042-024-18939-w	2024	Article
Advanced YOLO-Based Trash Classification and Recycling Assistant for Enhanced Waste Management and Sustainability Kumar, M.G.V.; Kumar, M.; Rao, K.N. et al. · DOI 10.1109/ICoICI62503.2024.10696214	2024	Conference Paper
The Plastic Problem in Research Laboratories: A Call for Sustainability Dasari, V.V.; Suresh, A.K.. · DOI 10.1021/acssusresmgt.5c00114	2025	Note

STARTUPS AND INNOVATION

Startups turning waste into products

Three incubated startups have SDG 12 as their primary SDG. Each takes a different route to responsible production: converting waste into materials, making durable products from natural wood, and automating waste segregation.

WASTE TO WEALTH

Dwell Crafts Innovations Private Limited

The venture collects vegetable and fruit waste to generate vegan leather, turning an organic waste stream into a material for products.

Incorporated: 7 Apr 2024
Incubation: 10 Apr 2024 – 10 Oct 2025
Founder: Staff

TOYS · SOCIAL IMPACT FOCUS: SUSTAINABILITY

Neemtoys Private Limited

The company manufactures neem wooden toys and sells them through a direct-to-consumer brand.

Incorporated: 27 Dec 2023
Incubation: 22 Jan 2025 – 22 Jan 2026
Founder: External

WASTE MANAGEMENT · SOCIAL IMPACT FOCUS: SUSTAINABILITY

Ekovamps Pvt Ltd

The company's Smart Trash Colonizer uses AI and ML concepts for waste segregation and redirection to the respective bins, reducing waste volume and offering up to 700% more capacity than conventional bins.

Incorporated: 27 May 2023
Incubation: 22 Mar 2025 – 22 Mar 2026
Founder: External

CONCLUSION

Progress towards responsible consumption and production

Taken together, the work for SDG 12 shows responsible consumption and production being practised across several parts of the university. Organic waste from kitchens and gardens is processed on site, wastewater is treated biologically, electric vehicles and efficient lighting are in use, and good practice points the institution towards careful records, fuel monitoring and waste-conscious building design. Events on e-waste, cleanliness, sustainable construction materials and water have given students and partners a place to learn and act, while research on waste valorisation and circular resource use and three incubated ventures extend the same thinking into knowledge and enterprise.

SDG 13: Climate Action

Take urgent action to combat climate change and its impacts

INTRODUCTION

Climate action in grounds, classrooms and laboratories

Sustainable Development Goal 13 calls for urgent action to combat climate change and its impacts. It asks every kind of institution to reduce greenhouse-gas emissions, to strengthen resilience and the capacity to adapt to climate-related hazards, and to improve education, awareness and institutional capacity on climate mitigation and adaptation. Universities have a particular part to play: they educate the people who will design low-carbon societies, generate the evidence on which sound climate policy rests, and show through their own grounds and habits what responsible practice looks like.

SRM University-AP follows this goal in principle through three connected strands. On campus, it keeps its grounds green and takes part in greening and community plantation drives. In the classroom and beyond, it builds climate literacy through courses, expert talks, webinars and outreach events that bring students, faculty and visitors together. In its departments and laboratories, it supports scholarly research on carbon, emissions, climate processes and climate-related policy. The pages that follow describe each strand.

> **Universities educate the people who will design low-carbon societies, generate the evidence behind sound climate policy, and show through their own grounds what responsible practice looks like.**

SDG 13 DATA AND KEY HIGHLIGHTS

Campus land, green cover and trees

93.7
acres of total campus land
2024-25

13.5
acres of green-covered area
Lawn, trees and hedges · about 14% of campus land

800
mature trees on campus (older than 10 years)
Approximate number

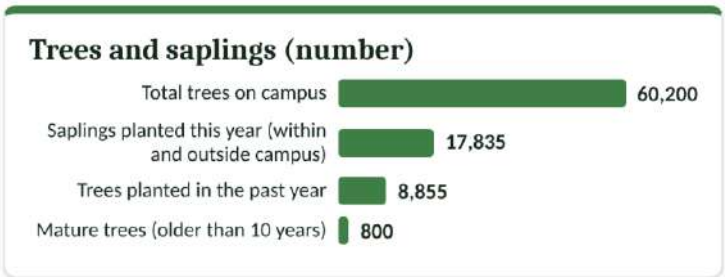
17,835
saplings planted this year
Within and outside campus

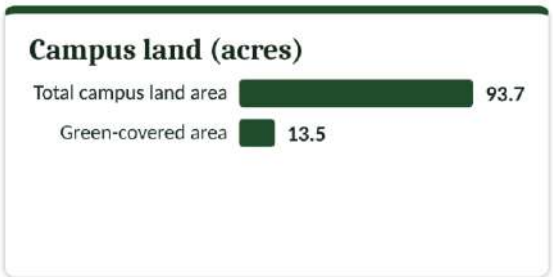
60,200
trees on campus

8,855
trees planted in the past year

7
climate-related events and webinars
24 Aug 2024 – 28 Mar 2025

95
SDG 13 publications
2024–2025





CLIMATE ACTION ON CAMPUS

Green cover as climate action

Green cover is the campus's own contribution to climate action: trees, hedges, lawns and plantings that shade walkways and roadsides and hold carbon in living biomass. The photographs below show the planted grounds across the campus; the measured figures for land area, green cover and tree counts appear in the highlights above.



Palm trees and low shrubs in a planted bed beside a curved paved road, with a multi-storey building behind.



A paved avenue lined with trees and palms on both sides.



Palms and trees beside a multi-storey building; orange traffic cones stand on the paved road.



Palm plants growing in a soil bed beneath a covered structure.



Dark-leaved ornamental plants in the foreground, with trees and a building wall behind.



A grass strip with a young tree and a clipped hedge beside a paved path; a concrete cover sits in the lawn.



A walkway of stone slabs with grass, trees and palms alongside.



Trees and plantings beside a paved path, with green mesh fencing and a tree guard visible.

CLIMATE EDUCATION AND AWARENESS

Climate literacy in the curriculum

Climate literacy begins in the curriculum. Of the environmental courses offered, two carry climate change in their titles: one in the ODD semester and one in the EVEN semester. Together they place the science, policy and urban dimensions of climate change in front of students across programmes.

Awareness extends beyond the classroom through seminars, webinars, conferences and outreach activities, described in the next section.

COURSES ADDRESSING CLIMATE CHANGE

Semester	Code	Course name
ODD	**EVS 501**	**Environmental Issues, Climate Change, and Sustainable Development**
EVEN	**LBA 251**	**Sustainable Cities and Climate Change**

EVENTS AND COMMUNITY OUTREACH

Plantation, lectures, webinars and conferences

EVENTS AT A GLANCE

Event	Date	Format	Participants
Prerana Vanam tree plantation on Founder's Day	24 Aug 2024	Extension / outreach	27
Spatial Reflections Webinar climate change and the Amazon rainforest	15 Oct 2024	Webinar (online)	98 unique users
Spatial Reflections Webinar satellite-based vegetation monitoring	28 Oct 2024	Webinar (online)	144 unique users
Lecture on Disaster Relief and Management	9 Nov 2024	Lecture / training	201
Spatial Reflections Webinar urban climate	27 Nov 2024	Webinar (online)	45 unique users

Event	Date	Format	Participants
Water Elixir Meet (WE Meet) 2025	27 Feb – 1 Mar 2025	International conference	277
Environmental Sustainability Exhibition (ESE-2025)	28 Mar 2025	Technical event	202 UG students from eleven states

Prerana Vanam – Tree Plantation on the Occasion of Founder's Day

24 Aug 2024 · 10 am – 1 pm · Amaravati, Andhra Pradesh · Participants: 27

Organiser: Directorate of Student Affairs

Category: Social service · NSS

Level: Intra-University

Participants: 27 (9 faculty and 18 UG)

A tree-plantation drive organised by the Directorate of Student Affairs in celebration of Founder's Day. Students, faculty and staff came together at a planting site in the nearby area, where they planted a variety of trees and shrubs.

It had three aims: to enhance local greenery and the quality of the surrounding area; to promote environmental sustainability, noting the role of trees in combating climate change, reducing air pollution and conserving water; and to engage the university community in a shared effort towards environmental stewardship.



Tree plantation: two people at the planting site, with the "Prerana Vanam – Founder's Day" banner behind them.



Tree plantation: three people around a young sapling; one holds a watering can.


Tree plantation: a group gathered around a sapling in a circular planting bed.

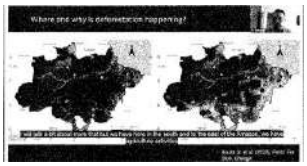

Tree plantation: several people crouched around a planting spot.

Climate Change and the Amazon Rainforest: A Two-Way Street

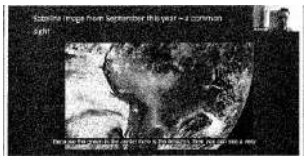
15 Oct 2024 · 4 pm – 5 pm · Online (Zoom) · Centre for Geospatial Technology · Participants: 98 unique users

Speaker: Prof. Micael Amore Cecchini, University of São Paulo, Brazil

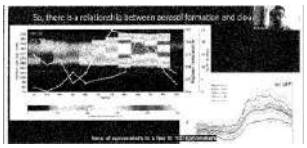
The speaker discussed how anthropogenic causes such as deforestation, aerosol deposition, pollution and land-use change affect the dynamics of the Amazon forest, with pressures spreading beyond the south and east of the Amazon. The session concluded that better climate projections depend on a better understanding of gas–aerosol–cloud cycles over the rainforest.



Slide with two maps and the on-screen heading "Where and why is deforestation happening?"



Slide with a satellite image and the on-screen text "Satellite image from September this year – a common sight".



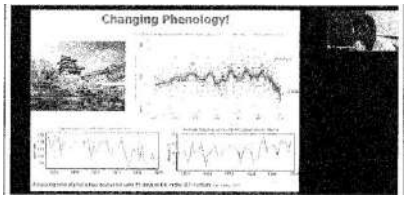
Slide with line-graph panels and the on-screen text "there is a relationship between aerosol formation and cloud…".

Satellite-Based Vegetation Growth Condition and Resilience Monitoring

28 Oct 2024 · 11:30 am – 12:30 pm · Online (Zoom) · Centre for Geospatial Technology · Participants: 144 unique users

Speaker: Prof. C. Jeganathan, Birla Institute of Technology, Mesra

The webinar addressed the potential of increasing India's forest cover towards climate change resilience. It covered stages of phenological development in forest communities, citizen-science initiatives that document phenological change, and how climate change could trigger shifts in the onset and length of phenophases, with a satellite-based study of crop productivity patterns in the Kosi region of Bihar.



Slide titled “Changing Phenology!” with an image and line-graph panels.


Slide showing a map of India with scattered dark markings.

Lecture on Disaster Relief and Management

9 Nov 2024 · 3 pm – 5 pm · Theatre and Grand Stairs · Participants: 201

Resource person: Mr N. Gopalakrishna, NDRF

Host: NSS · Directorate of Student Affairs

Participants: 201 (5 external, 70 faculty/staff, 126 UG)

A lecture hosted by the NSS in which a resource person from the National Disaster Response Force (NDRF) spoke on disaster relief and management. The programme aimed to build understanding of why disaster management matters, the role of the NDRF in emergency response, and the skills needed for community involvement in disaster preparedness and response.


Disaster Relief Demonstration: an inflatable boat on the floor with people standing around it.


A speaker at a lectern beside a large projected slide showing a cycle diagram.


Audience seated in an auditorium.


People standing in a row behind an inflatable boat.

Urban Climate: Through the Lens of Geospatial Technology

27 Nov 2024 · 2:30 pm – 3:30 pm · Online (Zoom) · Centre for Geospatial Technology · Participants: 45 unique users

Speaker: Dr Asfa Siddiqui, Indian Institute of Remote Sensing, ISRO

The speaker introduced datasets on urban planning and explained how night-time lights serve as a proxy for urban sprawl, with a focus on New Delhi. She discussed the urban heat island effect and the rise in land surface temperature from 1993 to 2011 due to anthropogenic climate change. A Dehradun case study and recommendations on transport systems, building design, pollutant measurement and action plans closed the session.



Map panel titled “Urban growth near airport – 1993”.



Map panel titled “Urban growth near airport – 2013”.

Water Elixir Meet (WE Meet) 2025 – International Conference

27 Feb – 1 Mar 2025 · 9 am – 5 pm daily · SRM University-AP · Host: Dept. of Environmental Science and Engineering

Chief guest: Prof. Rajasekhar Balasubramanian, National University of Singapore

Participants: 126 external · 27 faculty · 106 PhD scholars and others · 7 PG · 11 UG

An international conference that brought together researchers, engineers and policymakers around water-centred environmental issues, including water scarcity, pollution and climate change impacts. Keynote sessions by three foreign delegates and six national experts covered climate-resilient water systems, membrane separation, digital innovations and community-led water stewardship.

Outcomes included a compendium of research abstracts and a policy brief, and strategic partnerships between academic institutions, industries and policy bodies on challenges such as PFAS contamination, saltwater intrusion and circular water economies.


A person standing in front of wall-mounted display panels in a seminar room.


A large hall with a projected screen on the stage and rows of seats in the foreground.


Participants seated at long tables in a conference room.


A stage with a banner reading “1st Water Elixir Meet (WE Meet) 2025”; two people stand on the stage.

Environmental Sustainability Exhibition (ESE-2025)

28 Mar 2025 · 8:30 am – 5:30 pm · APJ Abdul Kalam Auditorium · Host: Dept. of Environmental Science and Engineering

Organisers: Dept. of Environmental Science and Engineering with the Directorate of Admissions

Participants: 207 external · 5 faculty · 202 UG

A technical event that gave undergraduate students a platform to showcase models, posters and projects on environmental sustainability. It drew 202 undergraduate students from eleven states, with exhibits spanning agriculture, biotechnology, electronics and computer science.

Its objectives were to inspire young minds to develop practical solutions for environmental sustainability, to create a platform for knowledge sharing and collaboration, and to promote the university as a hub for advanced research and education in the environment and sustainability.


Large group seated on the tiered steps of an auditorium, facing the camera.


Participants seated in a hall, with sofas in the foreground and a person standing.

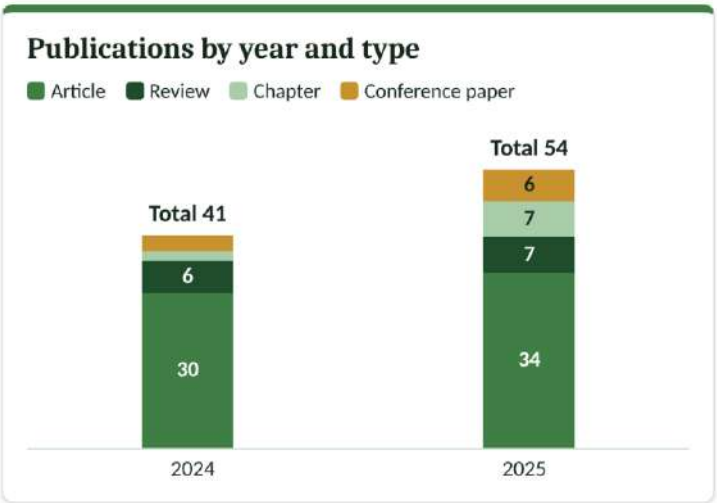

Two people at a podium beside a large projected screen on a stage.

RESEARCH AND PUBLICATIONS

SDG 13 research, 2024–2025

SRM University-AP has 95 publications mapped to SDG 13 for 2024 and 2025, with a Field-Weighted Citation Impact of 1.52. Of these, 41 have international co-authors.





43.2%

International collaboration

41 of 95 publications

2.1%

Academic–corporate collaboration

Publications with both academic and corporate affiliations

TOP KEY PHRASES

Carbon Dioxide Reduction · Life Cycle Analysis · Carbon Footprint · India · Biogas · Carbon Dioxide · Waste Management · Microalgae · Phthalocyanine · Anthropogenic Effect · Aquaculture System · Climate Modeling · Exclusive Economic Zone · Real Time · Solar Power

RESEARCH THEMES IN THE SELECTED PAPERS

Greenhouse gases and carbon cycling

Methane oxidation and emissions in tropical rivers and aquaculture ponds; carbon dioxide in a South Asian river basin; greenhouse-gas impacts of shrimp feed.

Carbon storage and sequestration

Carbon storage in a coastal wetland; biomass and carbon sequestration in a protected area; afforestation in industrial greenbelts; microalgae as a negative-emission technology.

Decarbonisation, climate risk and policy

Decarbonising sponge iron industries; drought-prone regions under climate change in India; India's Panchamrit climate policy.

SELECTED PUBLICATIONS

#	Title, authors and DOI	Year	Type	FWCI
1	**Linking carbon storage with land use dynamics in a coastal Ramsar wetland** Dar, S.A. et al. · DOI 10.1016/j.scitotenv.2024.173078	2024	Article	1.21
2	**Environmental determinants of aerobic methane oxidation in a tropical river network** Patel, L. et al. · DOI 10.1016/j.watres.2024.122257	2024	Article	1.16
3	**Urbanization Drives Carbon Dioxide Supersaturation in South Asian River Networks: Insights from the Krishna River Basin, India** Singh, R. et al. · DOI 10.1021/acsestwater.4c00947	2025	Article	1.35
4	**Salinity and phosphorus as key regulators of methane emissions in tropical aquaculture ponds** Patel, L. et al. · DOI 10.1007/s10499-025-01984-z	2025	Article	0.97
5	**Environmental impacts and effects on greenhouse gas emissions in shrimp feed production system for aquaculture – A case study in India** Ramesh, P. et al. · DOI 10.1016/j.envres.2023.117348	2024	Article	1.25
6	**Sustainability performance of microalgae as a negative emission technology for wastewater treatment** Gowd, S.C. et al. · DOI 10.1016/j.jwpe.2025.107393	2025	Article	1.33
7	**Species Diversity, Biomass Production and Carbon Sequestration Potential in the Protected Area of Uttarakhand, India** Upadhyay, G. et al. · DOI 10.3390/plants14020291	2025	Article	1.41
8	**Systematic evaluation of industrial greenbelts for quantifying carbon sequestration potential of afforestation activities** Raval, N.P. et al. · DOI 10.1007/s10661-025-14559-5	2025	Article	0.2
9	**Pathways for decarbonizing the sponge iron industries: Effect of energy balance and impact assessment** V. S, V. et al. · DOI 10.1016/j.jclepro.2024.141962	2024	Article	0.95

#	Title, authors and DOI	Year	Type	FWCI
10	**Foreseeing drought-prone regions in India under climate change: a comprehensive analysis through the development of Drought Prone Index** Tayyaba, S. et al. · DOI 10.1007/s10661-025-14324-8	2025	Article	0
11	**Climate commitments and democratic contradictions: India's Panchamrit policy in comparative south Asian perspective** Thomas, V. et al. · DOI 10.1080/14693062.2025.2596754	2025	Article	0

CONCLUSION

Progress towards climate action

Across its grounds, classrooms, events and laboratories, SRM University-AP's contribution to SDG 13 is visible in four places. The campus keeps measured green cover and tree stock, set out in the highlights. Climate-focused courses and a run of webinars, lectures, a plantation drive and conferences in 2024-25 carry climate knowledge to students and visitors. And the university's output under SDG 13 for 2024 to 2025 spans carbon cycling, sequestration, decarbonisation and climate policy.

Taken together, these strands show climate action pursued through awareness, campus practice and research.

SDG 14: Life Below Water

Conserve and sustainably use the oceans, seas and marine resources

INTRODUCTION

Protecting oceans, coasts and the people who depend on them

Sustainable Development Goal 14 aims to conserve and sustainably use the oceans, seas and marine resources. Its focus spans the reduction of marine pollution, the protection of coastal and marine habitats, and the support of coastal communities that depend on healthy waters. Because oceans, estuaries and wetlands are interconnected with the land and with the people who live near them, progress on this goal relies on sound science, responsible everyday practice and informed communities.

SRM University-AP follows this goal in principle through research and awareness. Located in Andhra Pradesh near the Bay of Bengal coast and the Kolleru Lake wetland, the university's Department of Environmental Science & Engineering studies aquatic ecosystems through its curriculum and laboratories, with research strengths in hydrogeology, water treatment and marine biogeochemistry. Alongside this work, student volunteering through the NSS Cell encourages young people to take practical responsibility for shorelines and water bodies.

> **From the Kolleru Lake wetland to the Bay of Bengal coast, the university studies aquatic ecosystems in the laboratory and cares for them in practice.**

SDG 14 DATA AND KEY HIGHLIGHTS

SDG 14 at a glance

55
publications mapped to SDG 14
2024–2025

95
participants in the Beach Cleaning Drive
4 April 2024

Nearly 3
tractor loads of waste cleared
Beach Cleaning Drive · 4 April 2024

Rs 1,00,000
approximate expenditure on the drive
Beach Cleaning Drive · 4 April 2024

COMMUNITY OUTREACH ACTIVITIES

Cleaning the shoreline

Beach Cleaning Drive

4 APRIL 2024 · NSS CELL

Date: 4 April 2024, 4 pm to 6 pm

Host: NSS Cell, SRM University-AP

Nature: Voluntary service

Location: Machilipatnam Beach (Manginapudi)

Chief guest: Sri. K V R Krishnnaiah, Senior Civil Judge, Krishna District

Attendees: 89 undergraduate students · 1 faculty member · 5 external participants

The Beach Cleaning Drive addressed environmental degradation and waste accumulation along the shore at Manginapudi, Machilipatnam Beach. Students took up the task of restoring the natural beauty of the coastline.

The drive carried the message “Save Our Shores! Join the Beach Cleanup Drive!”, with Sri. K V R Krishnnaiah, Senior Civil Judge, as chief guest.

OUTCOME

Through hands-on work and teamwork, students cleared waste from the site and gained insight into preserving natural resources and responsible waste management. The activity also built camaraderie among volunteers from diverse backgrounds.

The drive reflects the NSS Cell’s commitment to social welfare and environmental sustainability, nurturing socially conscious students who care for coastal environments.

PHOTOGRAPHS



Event flyer for the Beach Cleanup Drive


Volunteers collecting litter from open ground


Volunteers spread across the site placing litter into a bin


A tractor and trailer carrying collected waste


Volunteers beneath a banner reading “Under the aegis of NALSA”

ACKNOWLEDGED PARTNERS

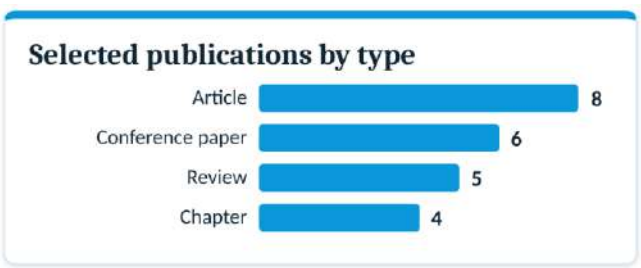
The drive was held under the aegis of NALSA, with the NSS Cell of SRM University-AP as host.

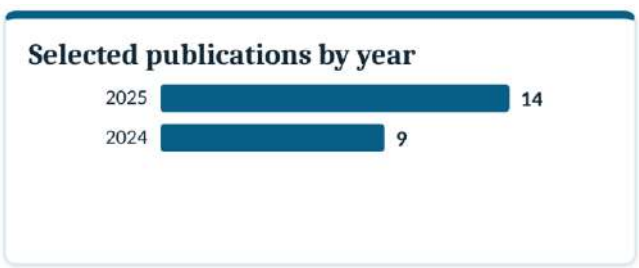


RESEARCH AND PUBLICATIONS

SDG 14 research, 2024–2025

SRM University-AP has 55 publications mapped to SDG 14 for 2024 and 2025. Twenty-three selected publications are listed below in order of Field-Weighted Citation Impact (FWCI). Topics include microplastics in aquatic and marine environments, coastal wetlands and estuaries, aquaculture, coral reef monitoring and marine plastic waste detection.





SELECTED PUBLICATIONS

#	Title and first author	Year	Type	FWCI
1	**Oil Spill Classification using Machine Learning** Ravulakollu, K.K. et al.	2024	Conference Paper	48.89
2	**Advanced Aquaculture Management: A Smart System for Optimizing Oxygen Levels, Shrimp Health Monitoring** Kuncha, P. et al.	2025	Chapter	3.44
3	**DeepFishNet: A Hybrid Deep Learning Model for Real-Time Fish Disease Classification** Biswal, S.R. et al.	2025	Conference Paper	3.02
4	**Integrated Underwater Data Transmission and Object Detection System Using TinyML and Multi-Hop Networks** Bhushan, C.M. et al.	2025	Conference Paper	2.71
5	**Microplastics under siege: Biofilm-forming marine bacteria from the microplastisphere and their role in plastic degradation** Joshi, G. et al.	2025	Article	2.67
6	**Enhancing Coral Reef Restoration: Integrating YOLOv8 and Deep Learning for Real-Time Monitoring and Intervention** Gollapalli, G.S. et al.	2025	Conference Paper	2.3
7	**Microbial role in degradation and removal of microplastics from aquatic environment** Dayal, L. et al.	2025	Chapter	1.52
8	**Optimizing aeration efficiency and forecasting dissolved oxygen in brackish water aquaculture: Insights from paddle wheel aerator** Ramesh, P. et al.	2024	Article	1.31
9	**Environmental impacts and effects on greenhouse gas emissions in shrimp feed production system for aquaculture – A case study in India** Ramesh, P. et al.	2024	Article	1.25
10	**Linking carbon storage with land use dynamics in a coastal Ramsar wetland** Dar, S.A. et al.	2024	Article	1.21
11	**Abundance of Microplastics in Marine and Freshwater Ecosystem and it's Impact on Biotic and Abiotic Components** Dayal, L. et al.	2024	Article	1.13
12	**Microplastics: Hidden drivers of antimicrobial resistance in aquatic systems** Goswami, P. et al.	2025	Review	1.12
13	**Salinity and phosphorus as key regulators of methane emissions in tropical aquaculture ponds** Patel, L. et al.	2025	Article	0.97
14	**Real time Coral Reefs Monitoring and Protection using Computer Vision: A Case Study on COTS Detection** Gollapalli, G.S. et al.	2024	Conference Paper	0.78
15	**Nitrogen and carbon cycling and relationships to radium behavior in porewater and surface water: Insight from a dry year sampling in a hypersaline estuary** Murgulet, D. et al.	2024	Article	0.76
16	**Potential Threat of Microplastic Pollution on Coastal-Marine Ecosystem– An Emerging Economic Setback and Question to Blue Economy?** Dey, U. et al.	2025	Review	0.68
17	**Microplastics in Indian aquatic systems and its effects on plants, aquatic organisms and humans, and its methods of remediation** Kumari, P. et al.	2024	Review	0.64
18	**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. et al.	2025	Article	0.63
19	**Tracing the Footprint of Microplastics: Transport Mechanism, Degradation, and Remediation in Marine Environment** Mukherjee, A. et al.	2025	Review	0.16
20	**Investigation on plastic-aggregates in coastal and marine pollution: Distribution, possible formation process, and disintegration prospects** Chell, S. et al.	2025	Review	0

#	Title and first author	Year	Type	FWCI
21	**Detecting Marine Plastic Waste Using Aerial and Satellite Images: A Multimodal Fusion Approach** Sai, P.L. et al.	2025	Conference Paper	0
22	**Cultural and scientific understanding of submarine groundwater discharge** Ismaeel, N. et al.	2024	Chapter	0
23	**Microplastics and Aquatic Limnology: Conception of Biogeochemical Processes** Dash, S. et al.	2025	Chapter	0

RESEARCH SPOTLIGHT | MICROPLASTICS AND ANTIMICROBIAL RESISTANCE IN AQUATIC SYSTEMS

A review led by Dr Prasun Goswami, Assistant Professor, Department of Environmental Science and Engineering, SRM University-AP, published in NanoImpact (a Q1 journal) in collaboration with the National Institute of Animal Health, National Agriculture and Food Research Organization (NIAH-NARO), Tsukuba, Japan.

Microplastics in oceans, rivers and lakes gather layers of bacteria and other microbes into a community known as the “plastisphere”. These communities can carry antibiotic-resistant bacteria; the microbes and the genes they carry are collectively termed the “Plastiome”. The review argues that microplastics can spread microbes and resistance genes that make infections harder to treat, posing risks to marine life and people, for example through contaminated seafood or drinking water sources.

The authors call for better waste management, reduced plastic use, and policies to monitor microplastic pollution and its microbial contents. Future work will examine how different plastic polymers affect microbial communities and antibiotic resistance genes, to identify which plastics pose the greatest risks.

CONCLUSION

Progress towards life below water

SRM University-AP contributes to SDG 14 by combining research on marine, coastal and aquatic systems with hands-on community action along the shoreline. Publications on microplastics, coastal wetlands, aquaculture and coral reef monitoring extend scientific understanding of life below water, while the NSS Cell’s Beach Cleaning Drive shows students putting responsible stewardship of coastal environments into practice.

SDG 15: Life on Land

Protect, restore and promote sustainable use of terrestrial ecosystems

INTRODUCTION

Caring for land and living systems

Sustainable Development Goal 15 calls for the protection, restoration and sustainable use of terrestrial ecosystems. It aims to manage forests sustainably, halt biodiversity loss and combat land degradation, recognising that healthy land underpins water, food, livelihoods and resilience for people and wildlife alike.

SRM University-AP follows these principles through greening and conservation-minded campus practice, and by involving students, faculty and staff in hands-on community participation. Learning, research and outreach are brought together so that care for land and living systems becomes part of everyday university life.

WHAT SDG 15 SEEKS TO ACHIEVE

Protect and restore
Terrestrial ecosystems and the land that supports them.

Manage forests
Sustainable forest management that keeps woodlands healthy.

Halt biodiversity loss
Protecting species and the habitats they depend on.

Combat land degradation
Restoring degraded soil and land for people and wildlife.

SDG 15 DATA AND KEY HIGHLIGHTS

SDG 15 at a glance

55
publications mapped to SDG 15
2024–2025

4
events and outreach activities
Aug – Oct 2024

27
participants at the Prerana Vanam plantation drive
9 faculty and 18 UG students

189
unique online users at the largest webinar
Biological Invasions · 31 Aug 2024

Unique online users per webinar



CAMPUS GREENING AND CONSERVATION INITIATIVES

Green spaces as part of disaster prevention

SRM University-AP's Disaster Management Plan lists the upkeep of green spaces among its prevention measures. By maintaining green areas and promoting environmental conservation, the university aims to reduce vulnerability to natural disasters, linking campus greenery directly to safety and resilience.

Tree planting and expert webinars

Prerana Vanam on the Occasion of Founder's Day

TREE PLANTATION DRIVE · 24 AUG 2024 · 10 AM – 1 PM

Date: 24 Aug 2024, 10 am–1 pm

Host: Directorate of Student Affairs with CLM

Place: Nearby area, Amaravati

Participants: 27 (9 faculty, 18 UG students)

Faculty and students came together to plant a variety of trees and shrubs in the nearby area as a social-service activity.

Objectives: Enhance local greenery and the quality of the surroundings; Promote environmental sustainability through tree planting; Engage the university community in a shared, hands-on effort.

Students, staff and faculty took part enthusiastically, and the drive is a step towards richer biodiversity and a healthier local ecosystem.

Resource person: Prof. Manoj Arora, Vice Chancellor, SRM University-AP.



Participants at work beside the event banner



Participants tending a plant, a watering can in hand



Participants crouched around a planting spot



A group gathered closely around a planting spot

Remote Sensing for Biological Invasions: Applications, Challenges and Future Directions

SPATIAL REFLECTIONS WEBINAR SERIES · 31 AUG 2024

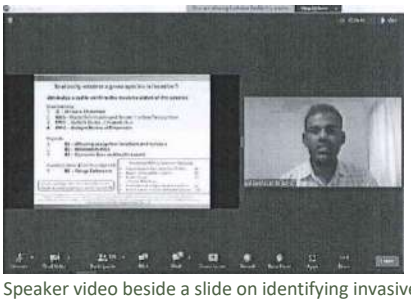
Date: 31 Aug 2024

Host: Centre for Geospatial Technology (online, Zoom)

Participants: 189 unique users

Speaker: Dr. Sudhakar Reddy Chintala, NRSC, Hyderabad

A webinar on mapping and managing invasive plant species with remote sensing, covering essential variables, mapping approaches, the distribution of invasive alien species in India and case studies on water hyacinth, Prosopis juliflora and Lantana camara, with species distribution modelling and future directions.


Speaker video beside a slide on identifying invasive species


Speaker video beside a slide titled "Remote Sensing?"

Spatial Reflections Webinar Series: Interactions between Climate Change and the Amazonian Rainforest, a Two-Way Street

SPATIAL REFLECTIONS WEBINAR SERIES · 15 OCT 2024

Date: 15 Oct 2024

Host: Centre for Geospatial Technology (online, Zoom)

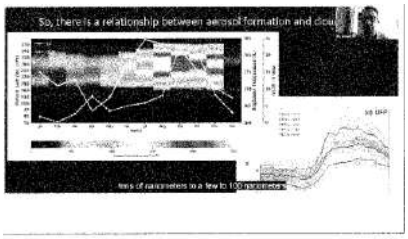
Participants: 98 unique users

Speaker: Prof. Micael Amore Cecchini, University of São Paulo, Brazil

The talk examined how deforestation, aerosol deposition from pollution and land-use change affect the Amazon forest, and how disruption of the aerosol–cloud–precipitation cycle could change cloud regimes over the region.



Slide showing a satellite image of the Amazon region



Slide with aerosol and cloud data charts

Spatial Reflections Webinar Series: Satellite-based Vegetation Growth Condition and Resilience Monitoring, Indian Experience

SPATIAL REFLECTIONS WEBINAR SERIES · 28 OCT 2024

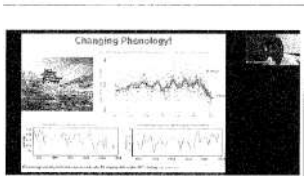
Date: 28 Oct 2024

Host: Centre for Geospatial Technology (online, Zoom)

Participants: 144 unique users

Speaker: Prof. C. Jeganathan, Birla Institute of Technology, Mesra

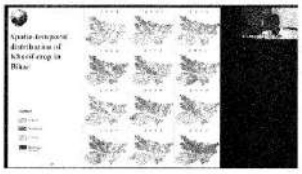
The session covered the potential of increasing India's forest cover for climate resilience, phenological stages of forest communities, citizen-science documentation of phenology, and satellite-based crop productivity patterns in the Kosi region of Bihar.



Slide titled “Changing Phenology!”



Slide with a map of India

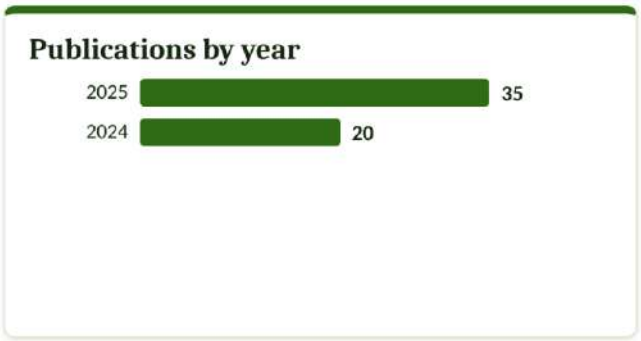


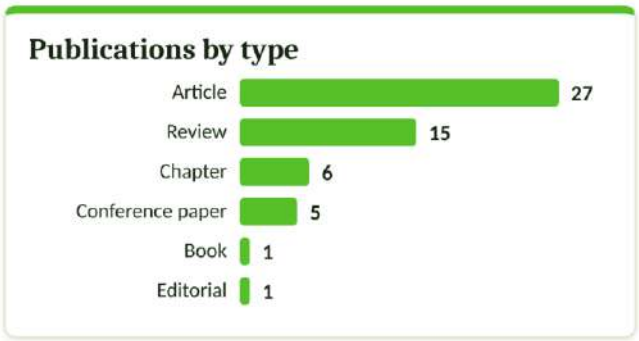
Slide on spatio-temporal distribution of Kharif crop in Bihar

RESEARCH AND PUBLICATIONS

SDG 15 research, 2024–2025

SRM University-AP has 55 publications mapped to SDG 15 for 2024 and 2025. Twenty-three selected publications are listed below. Research spans forests, wetlands, invasive plants, habitat modelling and land restoration. FWCI = Field-Weighted Citation Impact.





SELECTED PUBLICATIONS

#	Title and first author	Year	Type	FWCI
1	**Disturbance intensity drives structural, compositional and diversity attributes in tropical dry forests of Central India** Rathaude, S.K. et al.	2025	Article	2.74
2	**Invasive shrub (Lantana camara L.) alters the tree diversity and ecosystem-level carbon pools in tropical forests of Central India** Lone, P.A. et al.	2025	Article	2.5
3	**Predicting the potential distribution of Podophyllum hexandrum Royle in the Himalaya under CMIP6 climate projections** Wani, Z.A. et al.	2025	Article	1.43
4	**Improving ecosystem vitality in India: overcoming barriers to meet National and International targets** Wani, Z.A. et al.	2025	Review	0.63
5	**Treeline structure and regeneration pattern in protected and non-protected areas, Indian western Himalaya** Negi, V.S. et al.	2025	Article	2.13
6	**Species Diversity, Biomass Production and Carbon Sequestration Potential in the Protected Area of Uttarakhand, India** Upadhyay, G. et al.	2025	Article	1.41
7	**Distribution pattern and habitat suitability modelling of an invasive plant species – Solanum viarum Dunal** Jan, S. et al.	2025	Article	1.41
8	**WebGIS-based decision support system for soil erosion risk assessment for Guder River catchment, Ethiopia** Hajisheko, K.K. et al.	2025	Article	0.87
9	**Religion and Ecology: A Study on the Religious Beliefs and Practices in Conserving Ecology and Adapting to Climate Change Among the Bishnois of the Thar Desert in Rajasthan, India** Bikku, B.	2025	Article	4.68
10	**Species distribution modeling as a forest management tool: prospects and constraints** Kothandaraman, S. et al.	2025	Chapter	3.28
11	**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. et al.	2025	Article	0.63
12	**Unveiling a novel morphometric approach in claws and canines for species discrimination and age stratification in leopard (Panthera pardus fusca)** Pavithra, R. et al.	2025	Article	0.42
13	**Systematic evaluation of industrial greenbelts for quantifying carbon sequestration potential of afforestation activities** Raval, N.P. et al.	2025	Article	0.2
14	**Editorial: Conserving plants in a changing climate** Ahmad, Z. et al.	2025	Editorial	0.61
15	**Habitat suitability modelling and range change dynamics of Bergenia stracheyi under projected climate change scenarios** Wani, Z.A. et al.	2025	Article	0.37
16	**DTFD: A Transformer Approach for High-Resolution Satellite Image Forest Change Detection** Kaur, G. et al.	2025	Article	0
17	**Invasive plants alters the soil organic carbon storage in tropical forests of Madhya Pradesh, Central India** Lone, P.A. et al.	2025	Chapter	0
18	**Variation in heavy metal accumulation and translocation patterns in plant species utilized for reclamation of coal mine spoils in the southern Godavari Valley coalfield, India** Bashir, Z. et al.	2025	Article	1.07

#	Title and first author	Year	Type	FWCI
19	**Pharmaceuticals and personal care products in soil: Sources, impacts and myco-remediation strategies** Choudhury, M. et al.	2025	Review	2.2
20	**Linking carbon storage with land use dynamics in a coastal Ramsar wetland** Dar, S.A. et al.	2024	Article	1.21
21	**Evaluation of ecosystem services vis-à-vis perceptions and attitudes of local communities towards Wetland conservation in Kashmir Himalaya** Dar, S.A. et al.	2024	Article	1.46
22	**Deforestation Detection from Remote Sensing Images using Machine Learning** Tharun, D.S. et al.	2024	Conference Paper	1.46
23	**A combined bibliometric and sustainable approach of phytostabilization towards eco-restoration of coal mine overburden dumps** Bashir, Z. et al.	2024	Review	0.42

CONCLUSION

Progress towards life on land

SRM University-AP's contribution to SDG 15 combines community action, shared learning and research. Tree planting brought faculty and students together on the ground, while the Spatial Reflections webinars connected the campus with experts on invasive species, forests and vegetation monitoring.

Research on forests, wetlands, invasive plants, habitat modelling and land restoration adds scientific depth to this work. Together, these activities show the university's steady commitment to protecting and restoring life on land.

SDG 16: Peace, Justice and Strong Institutions

Ethical governance · Accountable institutions · Safe and inclusive campus

INTRODUCTION

Peaceful, just and accountable institutions

Sustainable Development Goal 16 calls for peaceful and inclusive societies, access to justice for all, and effective, accountable and transparent institutions at every level. Its targets address the reduction of violence, the rule of law, the prevention of corruption and bribery, responsive and participatory decision-making, the protection of fundamental freedoms, and non-discriminatory laws and policies.

Universities contribute to this goal through the way they are governed and through what they teach, convene and promote. Ethical governance, clear and fair procedures, accessible grievance-redressal mechanisms, codes of responsible conduct and inclusive participation build trust within a campus community, while awareness programmes, civic engagement and scholarship on governance, rights and justice extend that contribution to the wider society. The sections that follow show how the policies, practices, events and research of SRM University-AP relate to these principles.

HOW UNIVERSITIES CONTRIBUTE TO SDG 16



SDG 16-RELATED POLICIES AND INSTITUTIONAL FRAMEWORK

Policies that set the framework

SRM University-AP has documented policies governing student conduct, staff conduct, prevention of ragging and sexual harassment, workplace non-discrimination and ethical practice. Each entry below explains what the document provides and how that provision connects to SDG 16. The programmes conducted under this framework are described under Events and Community Outreach.

Anti-Ragging Policy

WHAT THE DOCUMENT PROVIDES

- Defines ragging broadly, covering conduct that teases, humiliates, exploits or harms any student physically or psychologically, and prohibits it across the campus, hostels and student transport.
- Requires a public declaration against ragging at admission, publication of helpline and functionary contact details to students, and signed undertakings from students and their parents or guardians.

- Establishes an Anti-Ragging Committee that includes student representatives, an Anti-Ragging Squad, a Mentoring Cell and a Monitoring Cell, with hostel wardens to be accessible at all hours.
- Protects the identity of those who report incidents, requires enquiries to follow fair procedure and natural justice, provides for appeal to the Vice-Chancellor, and makes lapses by faculty or staff subject to departmental enquiry.

SDG 16 CONNECTION
Supports Target 16.1 by seeking to prevent violence and psychological harm among students, and Targets 16.3 and 16.6 through defined, appealable and accountable procedures.

Policy on Prevention of Sexual Harassment

WHAT THE DOCUMENT PROVIDES

- Covers allegations of sexual harassment involving employees or students and is framed in line with the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and its Rules.
- Provides for an Internal Complaints Committee led by a presiding officer, with at least half of its members women and with one male and one female faculty member nominated.
- Treats retaliation against an aggrieved person as an offence, requires members to keep complaints confidential, and preserves the complainant's right to seek legal recourse.
- Lays down time-bound steps from complaint to appeal, and states the institution's responsibility to build a culture in which students and employees can progress on talent and effort regardless of gender.

SDG 16 CONNECTION
Supports Targets 16.1, 16.3 and 16.b by offering a confidential, structured route to redressal and by committing the institution to equal, non-discriminatory treatment.

Student Code of Conduct Policy

Reference: SRMAP/Reg.Off/Policies/21/2023-24 · **Dated:** 03 January 2024 · **Effective:** Academic year 2023–24 ·

WHAT THE DOCUMENT PROVIDES

- Applies to all registered students on and off campus and in online settings, and asks for conduct that is respectful, accountable and law-abiding.
- Affirms resident rights, including the right to be treated as equal without fear of harassment, intimidation or bullying, and sets out a request route for disability-related hostel accommodations through the Directorate of Student Affairs.
- Sets a graded framework of misconduct and consequences, a stated reporting process through the Directorate of Student Affairs and the Disciplinary Committee, and a staged appeal route that ends with a mercy appeal to the Vice-Chancellor.
- Declares the campus smoke-, alcohol- and drug-free and treats ragging and sexual harassment as serious offences under the relevant university policies.

SDG 16 CONNECTION
Gives students published standards and proportionate, appealable procedures (Targets 16.3 and 16.6), and affirms equal treatment and safety (Targets 16.1 and 16.b).

General Code of Conduct and Ethics

Reference: SRMAP/Reg.Off/Policies/14/2023-24 · **Dated:** 30 October 2023 ·

WHAT THE DOCUMENT PROVIDES

- Applies to teaching and non-teaching staff, vendors, contractors and others dealing with the University, who are held accountable for their individual and collective actions.

- Identifies as misconduct the taking or giving of bribes, theft, fraud and dishonesty, falsification of university records, giving marks or leeway to students for monetary benefit, and sexual harassment.
- Prescribes a disciplinary procedure based on natural justice: a written charge memorandum, an Enquiry Officer, cross-examination of witnesses, a copy of the enquiry report to the employee, a decision by the Registrar and appeal to the Vice-Chancellor.

SDG 16 CONNECTION

Contributes to Targets 16.5 and 16.6 by naming bribery and dishonesty as misconduct and by setting out a fair, accountable process for dealing with it.

Workplace Code & Guidelines Policy

WHAT THE DOCUMENT PROVIDES

- Applies to permanent, temporary and contractual employees and sets baseline expectations for professional standards, ethics and conduct.
- States that the University is an equal opportunity employer with zero tolerance for sexual harassment and for discrimination on the basis of caste, creed or religion, and that complaints in breach will be investigated and resolved appropriately.
- Treats physical violence or assault between employees as serious misconduct, requires employees to report suspicious movement to Security or Admin, and obliges them to protect confidential university information.

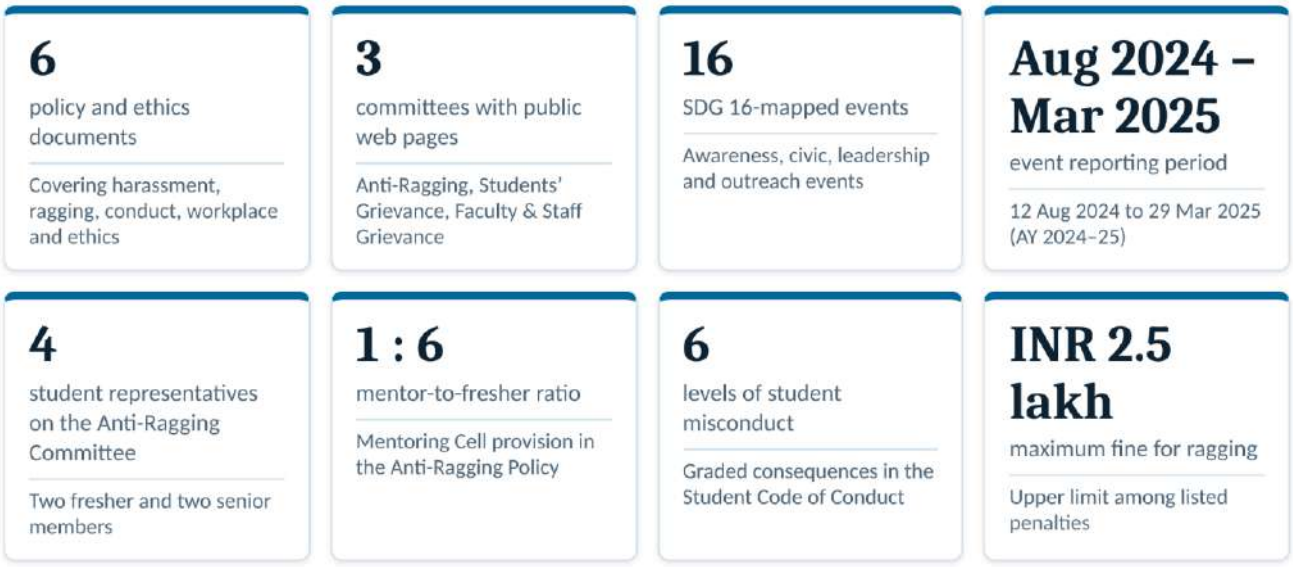
SDG 16 CONNECTION

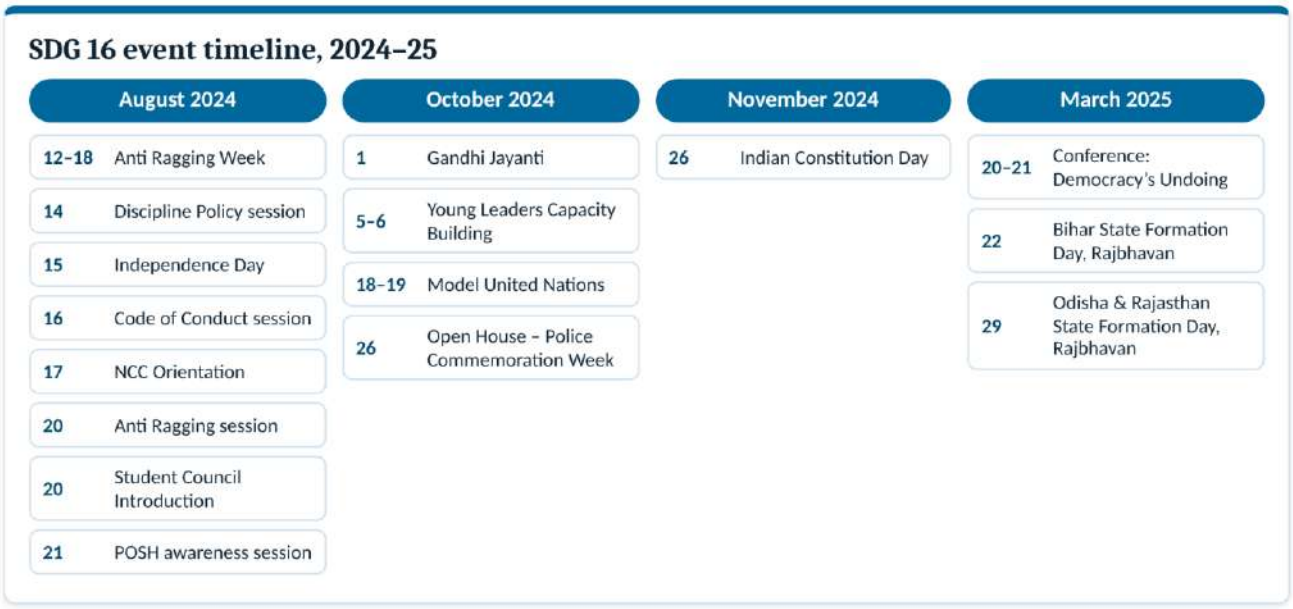
Supports Targets 16.1 and 16.b by committing the University to a respectful, safe and non-discriminatory workplace.

SDG 16 DATA AND KEY HIGHLIGHTS

SDG 16 at a glance

Event data relate to Academic Year 2024–25, with events held between 12 August 2024 and 29 March 2025.





KEY HIGHLIGHTS

- Rights, conduct and anti-ragging awareness sessions were held during August 2024, covering the discipline policy, code of conduct, anti-ragging and prevention of sexual harassment.
- Students engaged with constitutional values and non-violence through Independence Day, Gandhi Jayanti, Indian Constitution Day and a conference on democracy and politics in South Asia.
- Student representation and leadership were supported through the Student Council introduction for freshers and a two-day leadership workshop for council members.
- A Model United Nations simulated the UN General Assembly and the UN Human Rights Council, and students visited an open house exhibition during Police Commemoration Week.

GOVERNANCE, TRANSPARENCY AND INSTITUTIONAL ACCOUNTABILITY

Governance in practice

Governance principles are put into practice through visible committees, published procedures, student participation and ethical safeguards in academic work.

Public disclosure of committee information

The university website carries dedicated pages for three bodies that handle conduct and grievances: the Anti-Ragging Committee, the Students' Grievance Redressal Committee and the Faculty and Staff Grievance Redressal Committee. Making these bodies visible to students and staff supports Target 16.6 on transparent institutions and Target 16.10 on access to information. At the anti-ragging awareness session for freshers, the contact numbers and email IDs of the Anti-Ragging Committee were also displayed.

Ethical conduct and academic integrity

- **Institutional Ethics Committee.** Apex body that reviews research proposals involving human and animal subjects, monitors ongoing projects and addresses concerns of research misconduct.
- **Research ethics in the curriculum.** Ethical research design, responsible authorship, data integrity and the societal implications of research are embedded in coursework across disciplines.
- **Plagiarism screening.** Theses, dissertations and research manuscripts are screened with plagiarism-detection software such as Turnitin before submission or publication.
- **Codes of conduct.** Separate codes for students, faculty and staff set expectations for integrity, respect and responsibility.
- **Code of Conduct training.** Training for students, faculty and administrative staff covers academic integrity, harassment prevention, workplace ethics and conflict of interest.

How the framework connects to SDG 16 targets

16.1 Reducing violence and harm
Anti-Ragging Policy; Policy on Prevention of Sexual Harassment; Workplace Code on violence as misconduct

16.3 Justice and due process
Staged appeal routes and natural-justice enquiries in the student, staff and anti-ragging procedures

16.5 Countering corruption
General Code of Conduct and Ethics names bribery, fraud and dishonesty as misconduct

16.6 Accountable, transparent institutions
Published committee pages; codes of conduct and training; Institutional Ethics Committee; plagiarism screening

16.7 Participatory decision-making
Student representatives on the Anti-Ragging Committee; Student Council; leadership workshop

16.b Non-discriminatory policies
Equal-opportunity and zero-tolerance provisions; equal treatment regardless of gender; resident rights; disability accommodation route

Documented procedures: complaints, enquiry and appeal

Each policy places a defined authority at every stage and provides a route for review.

Student discipline and appeal route · Student Code of Conduct Policy

1 Report	2 Levels 1–2	3 Levels 3–6	4 Appeal	5 Mercy appeal
Misconduct is reported to the Directorate of Student Affairs (DSA)	DSA meets the student with the faculty mentor and/or Director of Campus Life; parents informed	DSA convenes the Disciplinary Committee with parents before sanctions are decided	Written appeal to the Registrar (Levels 5 and 6), who may refer back or convene an Appellate Committee	Further mercy appeal to the Vice-Chancellor; the final decision is communicated by the Registrar

Prevention and response route · Anti-Ragging Policy

1 Report	2 Squad enquiry	3 Committee	4 Remedial action	5 Appeal
Incident reported to the Squad, Warden, Director–Student Affairs, Vice-Chancellor or Helpline	On-the-spot enquiry under fair procedure and principles of natural justice	Anti-Ragging Committee decides the punishment from the listed measures	University action initiated and completed within seven days of the report	Appeal against the Committee's order lies with the Vice-Chancellor

Complaint and redressal route · Prevention of Sexual Harassment Policy

1 Complaint	2 Notice	3 Inquiry	4 Report	5 Decision	6 Appeal
Written complaint to the Internal Complaints Committee within three months of the incident	Parties questioned separately; show-cause notice sent; respondent replies within seven working days	Inquiry by the ICC (conciliation possible only at the complainant's request, without monetary settlement)	ICC submits a detailed report within 10 days	University administration decides within 15 days; both parties informed	Appeal to the university administration within 60 days

Staff disciplinary procedure · General Code of Conduct and Ethics

1 Charge memo	2 Enquiry	3 Report	4 Decision	5 Appeal
Issued by the Registrar, a Dean or an authorised officer, stating the alleged misconduct	Enquiry Officer appointed; principles of natural justice apply; witnesses can be cross-examined	Enquiry report and findings submitted; show-cause notice issued with a copy of the report	Registrar, as disciplinary authority, decides on the penalty	Vice-Chancellor is the appellate authority

Student voice in the framework

- The Anti-Ragging Policy places representatives of both fresher and senior students on the Anti-Ragging Committee and sets up a student Mentoring Cell.
- The Student Council was introduced to the incoming batch, and it ran the Anti Ragging Week competitions and joined the Directorate of Student Affairs for Indian Constitution Day.
- Council core members and heads of the extended council took part in a dedicated leadership workshop.

EVENTS AND COMMUNITY OUTREACH

Rights, conduct and anti-ragging awareness

Celebration of Anti Ragging Week

Date: 12–18 August 2024 · Organiser: Directorate of Student Affairs and Student Council · Mode: Online · Participants: 50

A week-long campaign to sensitise students to the harm caused by ragging and to its legal consequences. Students took part in slogan-writing, essay-writing, reel-making and digital poster competitions, and winners were declared in the video, essay and poster categories.

Participants also pledged not to indulge in ragging and to report any incident they observe or come across.

SDG 16 link: Target 16.1, preventing violence and psychological harm among students and encouraging reporting.



Anti Ragging Week photobooth



Anti Ragging Week banner

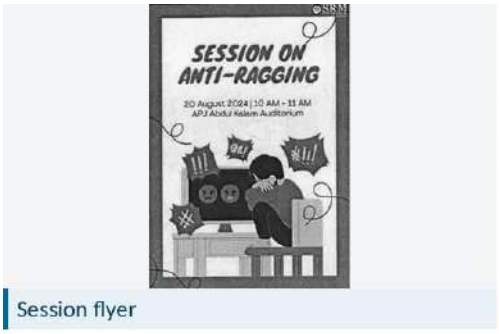
Awareness Session on Anti Ragging

Date: 20 August 2024 · Host: Directorate of Student Affairs · Venue: APJ Abdul Kalam Auditorium · Participants: 1,002

Delivered by the Director of Student Affairs for the incoming batch of freshers, the session explained the legal and personal consequences of ragging and the university's stance against it.

Students were introduced to the Anti-Ragging Committee and Squad, with contact numbers and email IDs displayed, and watched videos on the effects of ragging on individuals and the community.

SDG 16 link: Targets 16.1 and 16.6, making complaint channels known and visible to new students.



Session flyer



Anti Ragging Session



Anti Ragging Session

Awareness Session on Discipline Policy

14 August 2024 · Directorate of Student Affairs · 248 participants

An orientation session on the university's discipline policy for students.

NCC Orientation

17 August 2024 · Directorate of Student Affairs · 1,510 participants

An orientation session in the NCC category for students.

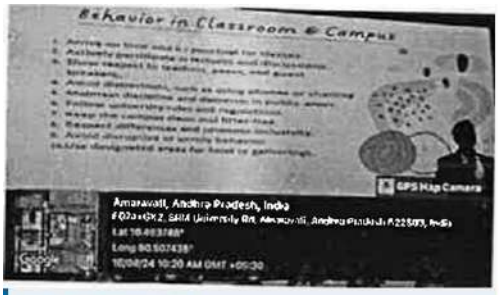
Awareness Session on the Code of Conduct

Date: 16 August 2024 · Host: Directorate of Student Affairs · Venue: APJ Abdul Kalam Auditorium · Participants: 1,000

Held as part of the 2024 student orientation, the session explained the university's expectations on behaviour and academic integrity.

The Director of Student Affairs outlined the policies governing student conduct, the disciplinary clauses and the penalties for infractions, and answered student questions in an interactive Q&A.

SDG 16 link: Targets 16.3 and 16.6, ensuring rules and their consequences are known to the people they apply to.



Policies presented



Audience



Speaker



Penalty clause slide

Student Council Introductory Session

Date: 20 August 2024 · Host: Directorate of Student Affairs · Venue: APJ Abdul Kalam Auditorium · Participants: 1,210

Freshers were introduced to the members of the Student Council, the roles and responsibilities of student representatives, and the ways in which they can join the council.

The proceedings included a Student Council oath taking and an announcement of the year's upcoming events.

SDG 16 link: Target 16.7, inclusive and participatory decision-making through student representation.



Student Council introduction



Student Council banner



Student Council oath taking



Audience

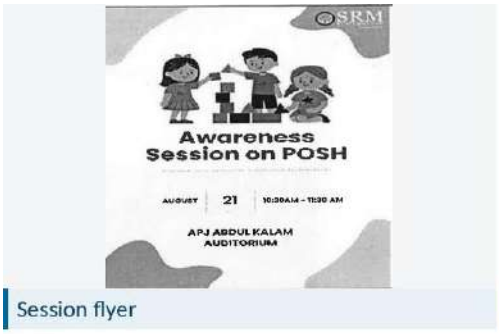
Awareness Session on POSH

Date: 21 August 2024 · Host: Directorate of Student Affairs · Venue: APJ Abdul Kalam Auditorium · Participants: 1,205

Led by Ms. Suez Ravuri, formerly Regional Joint Director in the Department of Women Development and Child Welfare, Andhra Pradesh, the session explained how complaints of sexual harassment are filed and escalated.

It stressed that people of any gender can seek redress and described the role of an Internal Complaints Committee in handling complaints fairly. Students and faculty took part and a memento was presented to the resource person.

SDG 16 link: Targets 16.1, 16.3 and 16.b, awareness of rights, redress mechanisms and non-discrimination.



Session flyer



Talk session



Welcome banner



Audience

Democratic values, non-violence and civic participation

Celebration of the 78th Independence Day

Date: 15 August 2024 · Host: Directorate of Student Affairs · Venue: Flag Pole and Atrium · Participants: 625

The campus marked the 78th Independence Day with flag hoisting, a parade and cultural performances by students, including dance, music and yoga.

The Vice-Chancellor's address reflected on India's journey since independence and called on the community to dedicate itself to the service of the university, the nation and the world.

SDG 16 link: Reaffirms commitment to democracy, unity and national institutions.



Flag hoisting



Parade



Cultural performance



Cultural programme

Floral Tribute on Gandhi Jayanti

Date: 1 October 2024 · Host: Directorate of Student Affairs · Participants: 56

A floral tribute remembered Mahatma Gandhi's philosophy of non-violence and truth. The Vice-Chancellor paid tribute and spoke about Gandhi's life, and participants joined in a tribute song and a peaceful close to the ceremony.

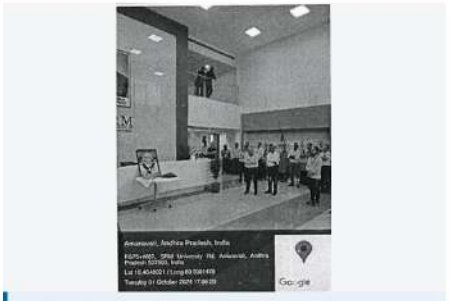
SDG 16 link: Target 16.1, promoting a culture of peace and non-violence.



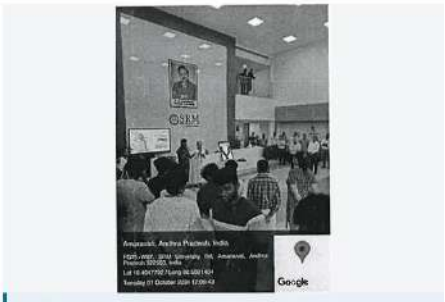
Floral tribute



Tribute song



Audience



Audience

Conference: Democracy's Undoing: South Asia and its Politics

20–21 March 2025 · Department of Arts · Two-day conference

A conference organised by the Department of Arts on democracy and politics in South Asia, held without external funding.

Bihar State Formation Day at Rajbhavan

22 March 2025 · Governor's Office · 16 students

Students took part in the Bihar State Formation Day programme at Rajbhavan.

Odisha and Rajasthan State Formation Day at Rajbhavan

29 March 2025 · Governor's Office · 14 students

Students took part in the Odisha and Rajasthan State Formation Day programme at Rajbhavan.

Indian Constitution Day

Date: 26 November 2024 · Host: Directorate of Student Affairs with the Student Council · Participants: 13

Participants took a pledge to uphold the Preamble of the Constitution.

The Student Council also ran a drawing competition on "Fundamental Rights of the citizens" and an essay competition on "The Role of Youth in Upholding the Indian Constitution".

SDG 16 link: Targets 16.3 and 16.7, awareness of fundamental rights and democratic principles among students.



Pledge taking ceremony



Pledge taking ceremony



Art competition



Essay writing competition

Leadership, diplomacy and public institutions

Young Leaders Capacity Building Program

Date: 5–6 October 2024 · Host: Directorate of Student Affairs · Venue: ALC 3rd Floor · Participants: 33 (5 Oct), 32 (6 Oct)

A two-day leadership workshop for the Student Council's core committee and the heads of the extended council, facilitated by trainers from HUM Consultancy. The Vice-Chancellor opened the programme with an address on leading by example.

Sessions combined team-building challenges with listening and communication, mindset, group efficiency and conflict-handling styles, using the Thomas-Kilmann instrument. Participants responded very positively.

SDG 16 link: Target 16.7, strengthening the capacity of student representatives for responsive and inclusive decision-making.



Day 1 workshop session



Day 1 workshop session



Address by the Vice-Chancellor



Group photograph



Day 2 workshop session



Day 2 workshop session

Open House on Weapons, Police Commemoration Week 2024

Date: 26 October 2024 · Organiser: 6th Bn. ASAP, Mangalagiri · Participants: 700

In view of Police Commemoration Week 2024, the 6th Battalion ASAP at Mangalagiri organised an open house exhibition on weapons and equipment for school and college students.

SRM University-AP was invited, and students attended along with the University Counsellor.

SDG 16 link: Public engagement between students and security institutions.



Open House exhibition



Open House exhibition



Open House exhibition



Open House exhibition

SRMUAP Model United Nations

Date: 18–19 October 2024 · Host: Directorate of Student Affairs · Venue: C402 · Participants: 100

Delegates simulated the UN General Assembly and the UN Human Rights Council. The Assembly agenda addressed transnational organised crime, including the acquisition of smuggled weapons by terrorist organisations, while the Council discussed safeguarding the rights of war-affected civilians in conflict zones.

Over two days, delegates took part in 12 moderated caucuses in the Council and 7 in the Assembly, and winners were declared in both committees.

SDG 16 link: Targets 16.1 and 16.3, building understanding of diplomacy, international law and human rights.



Event activity



Event activity



Event activity



Event activity

RESEARCH AND PUBLICATIONS

Research on governance, rights and justice

Faculty research at SRM University-AP engages with SDG 16 themes such as corruption, democratic institutions, representation, rights and violence. Eight featured publications from 2024–2025 are listed below.

8
featured publications
SDG 16-relevant research output

2024–2025
publication years

CORRUPTION AND INSTITUTIONAL INTEGRITY

Institutional corruption: Some issues

Patibandla, M. · 2025 · Article · CiteScore 14.1 · CiteScore percentile 4 · FWCI 0.78

Examines institutional corruption, relevant to Target 16.5 on reducing corruption and bribery.

DOI 10.1111/joes.12670

DEMOCRACY AND REPRESENTATION

The Intersection of Culture and Politics: Understanding Women's Underrepresentation in Indian Democracy

Thomas, V. and Kaunain, S. · 2025 · Article · CiteScore 2.9 · CiteScore percentile 41 · FWCI 0.83

Analyses women's underrepresentation in Indian democracy, relevant to inclusive and representative decision-making (Target 16.7).

DOI 10.1177/00219096231176738

LEGISLATIVE INSTITUTIONS

Role of Nominated Members of Rajya Sabha in Indian Legislative Processes

Thomas, V. and Bagh, S.K. · 2025 · Article · CiteScore 2.9 · CiteScore percentile 41 · FWCI 0

Studies the role of nominated members in legislative processes, relevant to effective and accountable institutions (Target 16.6).

DOI 10.1177/00219096231225952

DEMOCRATIC GOVERNANCE

Climate commitments and democratic contradictions: India's Panchamrit policy in comparative south Asian perspective

Thomas, V. and Antony, R. · 2025 · Article · CiteScore 12.6 · CiteScore percentile 3 · FWCI 0

Compares India's climate policy with South Asian democratic contexts, relevant to democratic governance and accountability.

DOI 10.1080/14693062.2025.2596754

DEMOCRATIC GOVERNANCE

Why Modi's Third Term as India's Prime Minister Will Be Tough

Thomas, V. et al. · 2024 · Note · CiteScore 1.9 · CiteScore percentile 29 · FWCI 0

Commentary on the political context of governing a third consecutive term, relevant to democratic governance.

DOI 10.1080/03068374.2024.2388258

RIGHTS AND INCLUSION

Advocacy and movement building for health rights and services for LGBTIQ communities: Insights and lessons learned from EQUAL GROUND, Sri Lanka

Chowdhury, S.A. et al. · 2025 · Chapter · FWCI 3.07

Documents rights-based advocacy for health services for LGBTIQ communities, relevant to non-discrimination and inclusion (Target 16.b).

DOI 10.1007/978-981-97-2098-9_55

VIOLENCE AND ITS IMPACT

Insights into Gun-Related Deaths: A Comprehensive Machine Learning Analysis

Panchumarthi, L.Y. et al. · 2024 · Conference Paper · FWCI 0.37

Applies machine learning to gun-related deaths, relevant to reducing violence-related deaths (Target 16.1).

DOI 10.1109/ICCCNT61001.2024.10724884

VIOLENCE AND ITS IMPACT

Trauma reflections: an interpretive phenomenological analysis of pellet-gun victims' experiences in Kashmir

Nazam, F. and Munawar, I. · 2025 · Article · CiteScore 1.9 · CiteScore percentile 54 · FWCI 0

Explores the lived experience of victims of violence, relevant to understanding its human impact (Target 16.1).

DOI 10.1080/28324765.2025.2561668

CONCLUSION

Progress towards peace, justice and strong institutions

SRM University-AP's contribution to SDG 16 appears in three connected ways. First, the institution has documented policies on ragging, sexual harassment, student and staff conduct, workplace non-discrimination and research ethics, each with defined authorities, procedures for enquiry and routes for appeal, and it publishes information on its conduct and grievance committees on its website.

Second, the Directorate of Student Affairs and academic departments conducted a programme of awareness, civic and leadership events during Academic Year 2024–25. These events took the policy framework to students through orientation sessions, strengthened student representation and leadership, and engaged the campus with constitutional values, non-violence, diplomacy and public institutions.

Third, faculty research addresses corruption, democratic institutions, representation, rights and violence. Together, the framework, the programmes and the scholarship show an institution that builds ethical, accountable and inclusive practice into governance, student life and knowledge creation.

SDG 17: Partnerships for the Goals

Global alliances · Shared research · Cross-sector dialogue · Community engagement

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 build alliances with other institutions at home and abroad, produce research in collaboration with scholars and practitioners, convene government, industry and civil society for dialogue, prepare students through education that links to the Goals, and take learning and service to the wider community. The sections that follow show how the agreements, research, events, courses and outreach of SRM University-AP relate to these principles during Academic Year 2024–25, running from July 2024 to June 2025.

HOW UNIVERSITIES CONTRIBUTE TO SDG 17

Global alliances
Agreements with universities, industry and public bodies at home and abroad

Shared research
Co-authored work with partners in many countries and sectors

Cross-sector dialogue
Conferences and summits that convene government, industry and academia

Capacity building
Joint teaching, training and curricula linked to the SDGs

Data and accountability
Reporting evidence so that partnership progress can be tracked

Community engagement
Outreach and volunteer service with schools and local communities

SDG 17 DATA AND KEY HIGHLIGHTS

SDG 17 at a glance

The indicators below bring together the University's partnership agreements signed during Academic Year 2024–25, the events and outreach activities held in that year, research collaboration data, and the SDG mapping of its courses. Each figure states the period it covers.

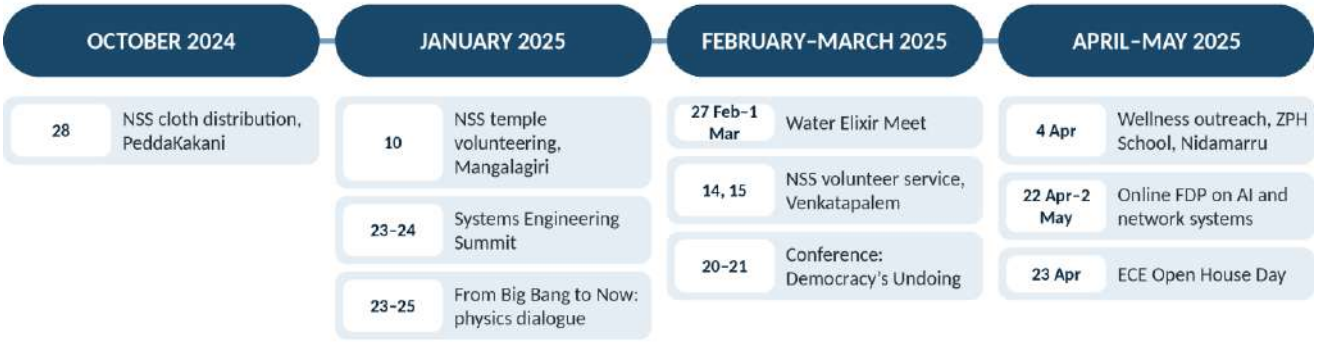
47
partnership agreements signed
Between July 2024 and June 2025

11
events and outreach activities
Held between October 2024 and May 2025

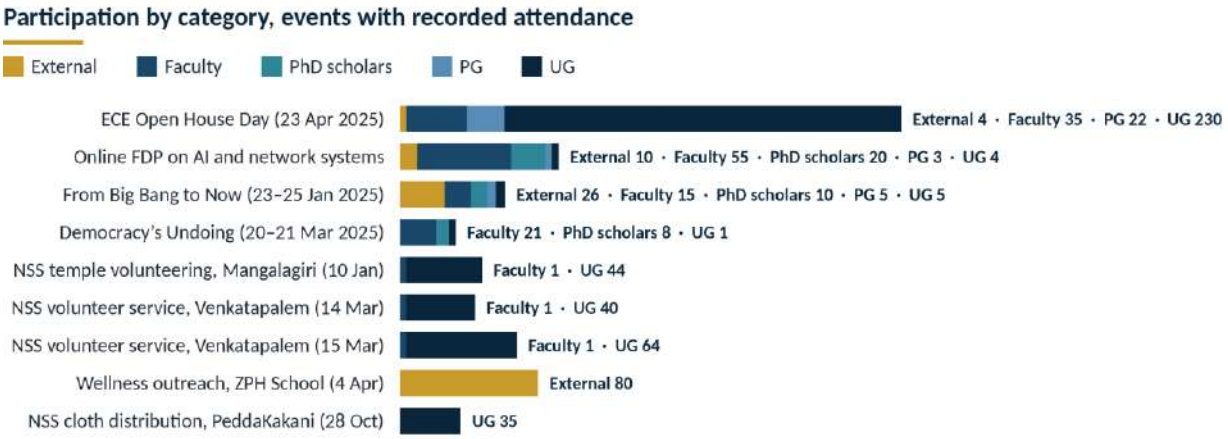
622
internationally co-authored SDG publications
2020–2025

62
sustainability and environment courses
Mapped to the SDGs in the course mapping list

PARTNERSHIP AND ENGAGEMENT TIMELINE, AY 2024–25



PARTICIPATION AT A GLANCE

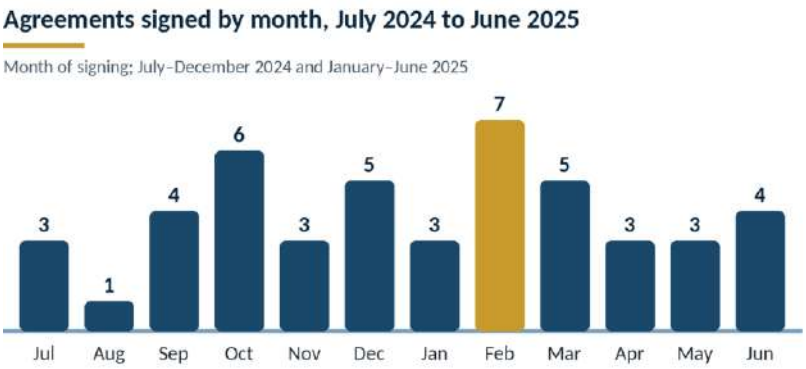


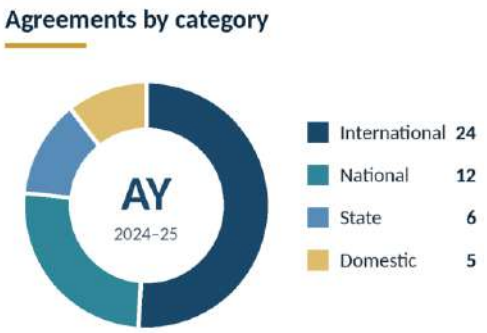
Each bar shows the attendance categories for the event. Activities without a category breakdown are described in the sections that follow.

FORMAL PARTNERSHIPS AND AGREEMENTS

Agreements with universities, industry and public bodies

Between July 2024 and June 2025 SRM University-AP signed agreements with universities, industry, public bodies and professional organisations. Signing continued through every month of the year, with the largest number in February 2025.





International agreements span 16 countries. Partners include the University of Miami, Northeastern University, Carnegie Mellon University and Drexel University in the United States; University College Dublin; the University of Plymouth; the University of Seoul; Coburg University of Applied Sciences and Arts; Paris School of Business; Universiti Malaya; the Hebrew University of Jerusalem; and Saint Petersburg University.





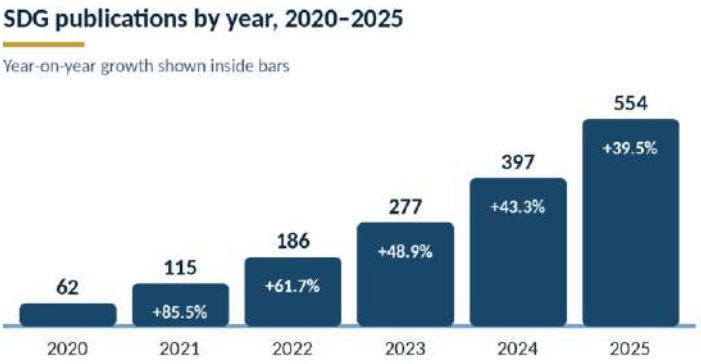
Within India, the agreements reach national and state bodies as well as industry and health institutions, among them the University Grants Commission, the Administrative Staff College of India, the Andhra Pradesh Roads and Buildings Department, the International Council on Systems Engineering (INCOSE), the Multi Commodity Exchange of India, Efftronics Systems, and hospitals and institutes in Guntur. Agreements of this kind support joint research, student and faculty exchange, internships and training, and widen the set of partners with whom the University works on the Goals, in line with Targets 17.16 and 17.17.

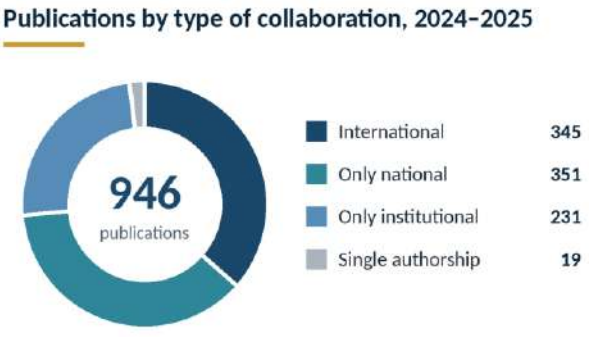
COLLABORATION FOR SUSTAINABLE RESEARCH

Research as partnership

Research is the University's most visible form of partnership. Between 2020 and 2025 its researchers co-authored publications on the Sustainable Development Goals with partners abroad, writing with researchers from organisations in many countries and regions, including low and lower-middle income countries. The charts below state the period for each measure.

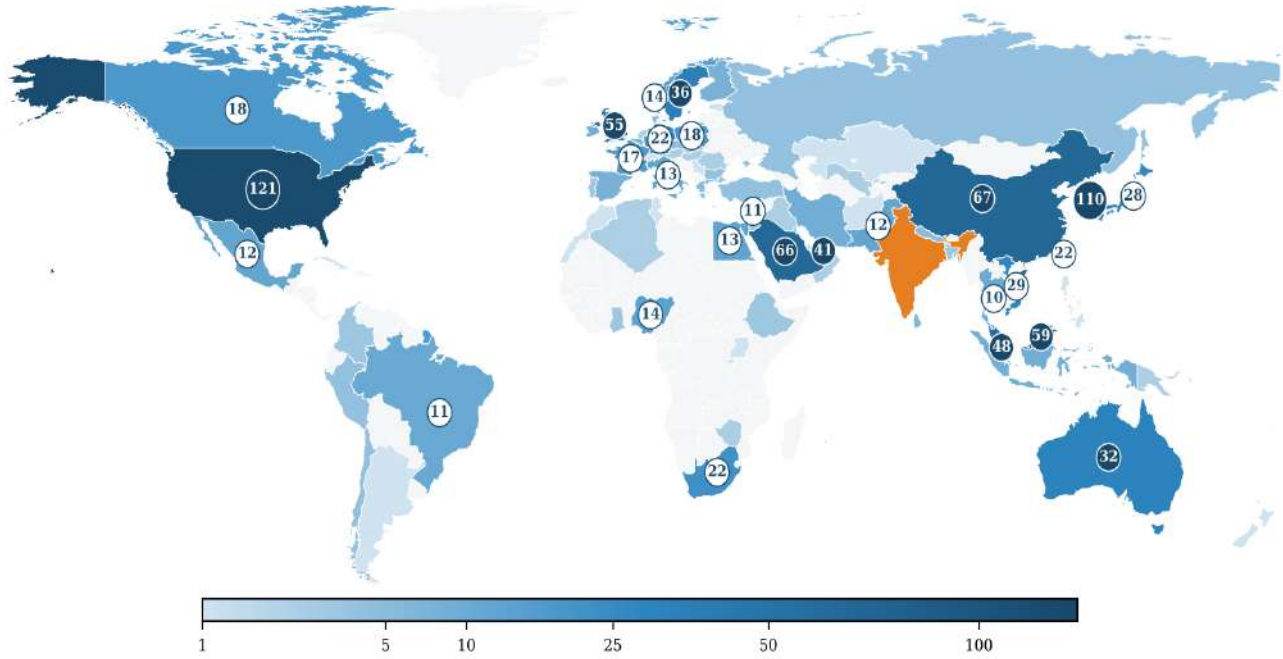






Annual publications on the SDGs rose from 62 in 2020 to 554 in 2025, with year-on-year growth of 39.5% in 2025. Collaboration is the norm: of the 946 publications produced in 2024–2025, those written with international co-authors were the most influential, receiving 5,015 citations, an average of 14.5 per publication against 8.3 for national-only work, and a Field-Weighted Citation Impact of 1.61. In 2024–2025 the University's international co-authors were based in 66 countries, and 144 of the 345 internationally co-authored papers bring together authors from three or more countries.

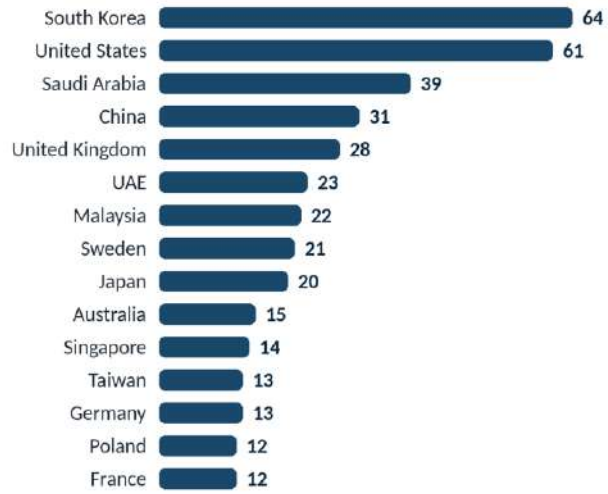
Where the partners are



Co-authored publications with SRM University-AP (countries with 10 or more publications are labelled; India shown in orange)

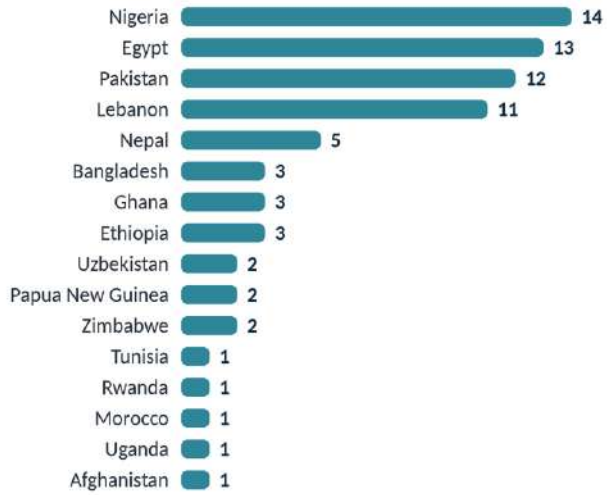
Top 15 partner countries, 2024–2025

Co-authored publications



Low and lower-middle income partners, 2020–2025

Co-authored publications



Beyond the university sector

Researchers also work with government, industry and healthcare partners. In 2024–2025, publications involving these partners were as follows, and academic–corporate co-authored papers more than doubled from 4 in 2024 to 9 in 2025, while government collaboration grew from 41 to 54 papers.

95
Publications with government laboratories and agencies
2024–2025

13
Publications with industry partners
2024–2025

13
Publications with hospitals and other organisations
2024–2025

Summits, conferences and open houses

During Academic Year 2024–25 the University hosted summits, conferences, a faculty development programme and an open house that brought together industry, public-sector institutions and academics from other universities. Each is described below with its date, host and its outcomes.

Featured: Systems Engineering Summit 2025

Date: 23–24 January 2025

Venue: APJ Abdul Kalam Auditorium

Hosted by the Departments of Electronics and Communication Engineering and Electrical and Electronics Engineering with Efftronics Systems Pvt. Ltd., and held as a joint initiative with INCOSE India, the IEEE Systems Council and CII Andhra Pradesh. The theme was “Systems Engineering: The Guaranteed Path to a Better World”.

Speakers and panellists came from Boeing, Eaton, Wabtec, Philips, Ansys, John Deere India, Bajaj Auto, IRISET, DRDO’s RCI and Mahindra University, and the inauguration included the vice-chancellors of VIT-AP, Siddhartha Academy of Higher Education and Acharya Nagarjuna University. Sessions covered systems thinking, lifecycle management, reliability and safety, and railway, healthcare, aerospace and automotive perspectives.

Memorandums of Understanding were signed between SRM University-AP, Efftronics, INCOSE and other industry and academic entities. A Centre of Excellence on Functional Safety was proposed, and an MoU with the Indian Railways Institute of Signal Engineering and Telecommunications, Secunderabad, is in progress.

SDG 17 link: Targets 17.16 and 17.17, multi-stakeholder partnerships linking industry, public-sector institutions and universities.



Lamp lighting at the inauguration



Dignitaries on stage


Document exchange on stage


Document exchange on stage



Panel on stage


Audience in the auditorium

Water Elixir Meet (WE Meet 2025)

Date: 27 February – 1 March 2025

Host: Department of Environmental Science and Engineering

Partners: National Taipei University of Technology, Taiwan; IGES, Japan

The first Water Elixir Meet was an international conference on water scarcity, pollution, climate change impacts and policy. Its chief guest and keynote speaker was Prof. Rajasekhar Balasubramanian of the National University of Singapore, and three foreign delegates (from Italy, Taiwan and Singapore) and six national experts gave keynote and invited talks. The event flyer acknowledges NABARD and SERB (ANRF).

The conference set out to foster collaboration among academia, industry, government agencies and non-governmental organisations. It led to strategic partnerships among academic institutions, industries and policy bodies on microplastic pollution, PFAS contamination, saltwater intrusion and circular water economies. A compendium of research abstracts and a policy brief with key recommendations were published, and a larger WE Meet 2.0 is planned.

SDG 17 link: Targets 17.6, 17.16 and 17.17, knowledge exchange and partnerships among universities, industry, government and civil society.

From Big Bang to Now: A Theory–Experiment Dialogue

Date: 23–25 January 2025

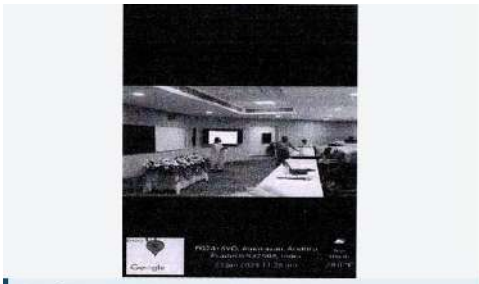
Host: Department of Physics

Venue: C-503, Tiered Classroom, CV Raman Block

A three-day conference that brought together researchers from across India working in high-energy physics to open a dialogue between theorists and experimentalists on gravitational-wave detectors, quantum information, machine learning in collider physics and observational astronomy. It also gave young PhD students and postdoctoral researchers a platform to discuss their work with experts. The event was supported by the Anusandhan National Research Foundation (ANRF).

Speakers presented talks on the current state of theoretical particle physics, gravitational physics, field theory and cosmology. The discussions led to new collaborations and plans for future events, including specialised workshops.

SDG 17 link: Targets 17.6 and 17.16, knowledge sharing and research collaboration across institutions.



Session room, 23 January



Speaker, 24 January



Speaker, 24 January



Speaker, 25 January

Democracy's Undoing: South Asia and its Politics

Date: 20–21 March 2025

Host: Department of Political Science

Venue: Theatre, SRM University-AP

Type: International conference

A two-day international conference on the current state and future of democracy in South Asia, covering the rise of populism, the role of technology, social and economic inequalities, minority rights and civil liberties. Keynote addresses were given by Prof. Ashok Acharya of the University of Delhi, on contextualising liberalism, and Prof. Kurt Annen of the University of Guelph, Canada, on democracies over time from a global perspective.

The conference brought together scholars and experts from other institutions for dialogue on inequality, civil liberties and the effect of technology on governance. It produced actionable insights and recommendations for strengthening democratic values and institutions in the region.

SDG 17 link: Targets 17.6 and 17.16, scholarly exchange among institutions at national and international level.

ECE Open House Day: Technology Showcase from Microchips to Megatrends

Date: 23 April 2025

Host: Department of Electronics and Communication Engineering

Venue: APJ Abdul Kalam Auditorium

The first edition of the ECE Open House Day showcased more than 150 capstone, UROP and postgraduate projects together with faculty-led patented solutions. Experts from IBM Research, Mphasis, Efftronics and the IETE Vijayawada Chapter evaluated and gave feedback on the work, and top projects in each specialisation were recognised.

The event doubled as an outreach programme to inspire school students and technology enthusiasts. It strengthened the academic–industry–community linkage.

SDG 17 link: Targets 17.16 and 17.17, partnership between academia, industry and the wider community.



Event flyer

Online Faculty Development Programme on AI and Emerging Technologies in Next-Generation Network Systems

Date: 22 April – 2 May 2025

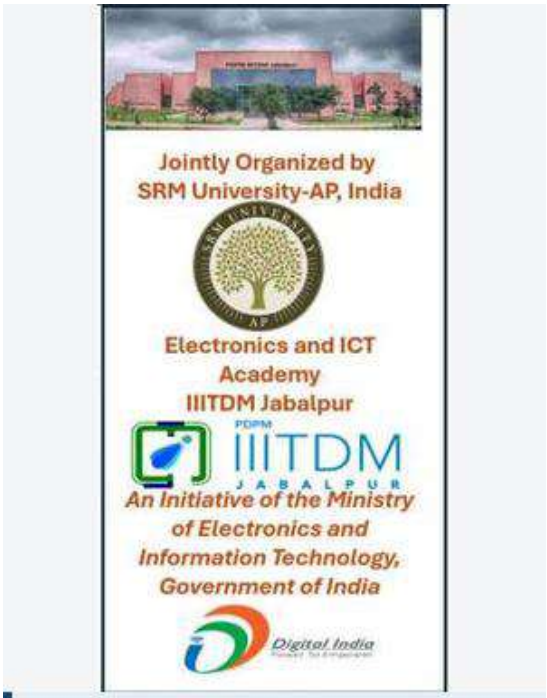
Host: SRM University-AP with PDPM IIITDM Jabalpur and the Electronics and ICT Academy

Mode: Online

A joint faculty development programme on artificial intelligence in network system design, with ten resource persons from NIT Jalandhar, NIT Warangal, IIITDM Jabalpur, IIT (ISM) Dhanbad, SoA University, Aliah University, Umeå University and Uppsala University in Sweden, and SRM University-AP.

Sessions covered federated learning, AI in the cloud–edge–fog continuum and cybersecurity, with hands-on work in CloudSim, EdgeCloudSim, Azure and MATLAB. Participants valued the structured content and expert guidance.

SDG 17 link: Targets 17.6 and 17.9, knowledge sharing and capacity building for faculty across institutions in India and abroad.



Programme organisers

From dialogue to documented outcomes

Documented outcomes of partnership events, AY 2024–25

Systems Engineering Summit	Water Elixir Meet	Physics dialogue	Democracy conference
MoUs signed between SRM University-AP, Efftronics, INCOSE and other industry and academic bodies; a Centre of Excellence on Functional Safety proposed	Strategic partnerships among academic, industry and policy bodies; a research compendium and a policy brief published; WE Meet 2.0 planned	New collaborations formed and plans made for future events, including specialised workshops	Discussions produced insights and recommendations on strengthening democratic institutions in South Asia

Outcomes describe partnerships formed or proposed.

EDUCATION FOR THE SDGs

Partnership through what students learn

Partnership is also built through what students learn. The Department of Environmental Science and Engineering runs a two-year M.Sc. in Environmental Science, a two-year M.Tech in Environmental and Sustainable Engineering and a Ph.D. in Environmental Science and Engineering, each with a research and industry orientation and a mandatory summer internship at national or international research institutes or industries for postgraduate students. The University's SDG course mapping lists 62 sustainability and environment courses across seven themes, from climate and carbon to water resources.

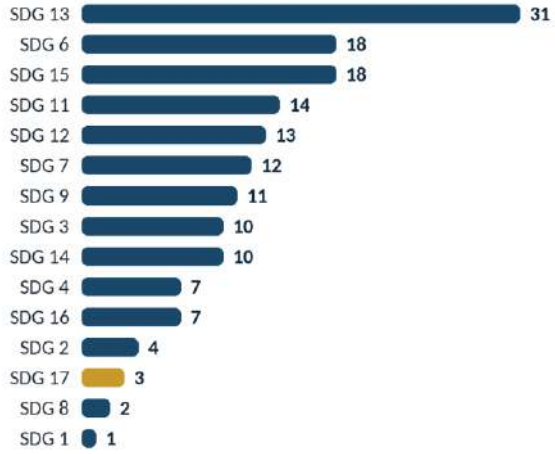
3
Degree programmes in the field
M.Sc., M.Tech and Ph.D. in environmental science and engineering

15 of 17
SDGs covered by the 62 courses
SDG 13 is the most common

997 of 1,035
Unique courses mapped to an SDG
96.3 per cent of the catalogue

Courses mapped to each SDG

Sustainability and environment courses; gold marks SDG 17



Courses mapped to at least one SDG, by school

Unique courses in each school



Twenty-three of the 62 courses address three or more SDGs, which shows that they are designed across goals. Three courses are mapped to SDG 17: Climate Finance, The Politics of Climate Change, and Environmental Issues, Climate Change, and Sustainable Development. Beyond these dedicated courses, the whole course catalogue has been mapped to the SDGs, so that almost every course a student takes can be linked to at least one Goal.

COMMUNITY OUTREACH AND VOLUNTEER SERVICE

Taking learning and service beyond the campus

The Directorate of Student Affairs and its National Service Scheme (NSS) unit take learning and volunteer service beyond the campus, working with schools, local communities and temple authorities. The activities below were held during Academic Year 2024–25; attendance is shown in the participation chart in the data section.

NSS Cloth Distribution at PeddaKakani

Date: 28 October 2024

Host: NSS, Directorate of Student Affairs

Location: PeddaKakani, near Guntur

Student volunteers of the NSS unit distributed donated clothes to underprivileged residents of PeddaKakani between 10:00 am and 2:00 pm. Clothing is a basic need that many low-income families struggle to afford, particularly children, elderly people and women.

The distribution eased some of the financial burden on these families, built empathy and social responsibility among the students, and strengthened ties between the University and the local community.

SDG 17 link: Target 17.17, partnership between the University and civil-society and community groups.



Distribution of donated clothes



Student volunteers with residents

Wellness Outreach at ZPH School, Nidamarru

Date: 4 April 2025

Host: Directorate of Student Affairs

Location: ZPH School (Government School), Nidamarru

Time: 11:00 am – 1:00 pm

University counsellors held a two-hour workshop at the government school on time management and study preparation for 9th-grade students moving to the 10th grade, using the Pomodoro Technique of focused study intervals followed by breaks. The session also discussed common distractions, such as mobile phones and household duties.

Teachers reported that students were more motivated and hopeful afterwards. The recommended follow-up actions are regular follow-up sessions, awareness sessions for parents and peer study groups.

SDG 17 link: Targets 17.9 and 17.17, sharing skills with a local school and building partnership with the community.



Wellness workshop at ZPH School, Nidamarru

NSS Volunteering at Laxmi Narasimha Swamy Temple, Mangalagiri

Date: Night of 9–10 January 2025

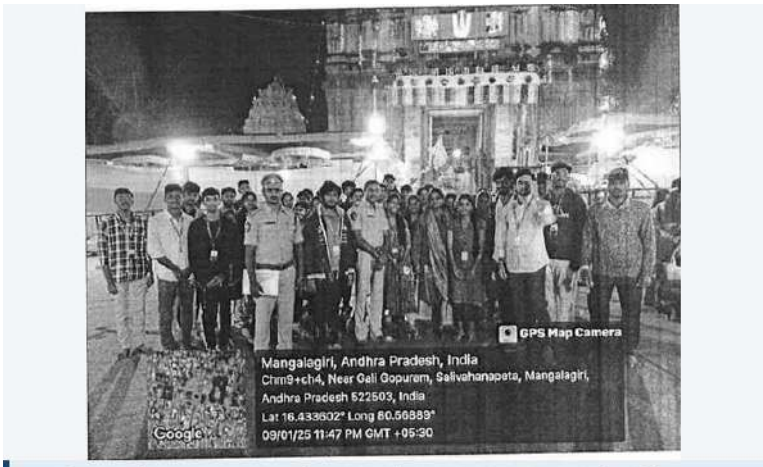
Time: 11:00 pm – 6:00 am

Host: NSS, Directorate of Student Affairs

NSS student volunteers and a faculty member supported crowd control at the temple overnight, guiding devotees during heavy footfall and helping the event run safely and smoothly.

Outcomes included clear directions to devotees, adherence to safety protocols and the timely conduct of rituals and activities without disturbance.

SDG 17 link: Target 17.17, partnership between the University's volunteers and a community institution.



Student volunteers near the temple gopuram, Mangalagiri

NSS Volunteer Service at TTD Venkatapalem

Dates: 14 March 2025 (5:30 – 10:30 pm) and 15 March 2025 (7:30 am – 1:30 pm)

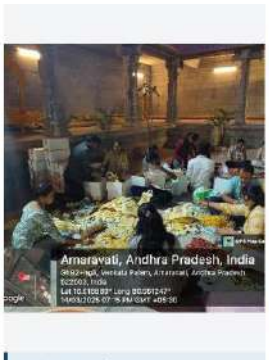
Host: Directorate of Student Affairs, NSS Cell

On two days in March 2025 NSS volunteers helped with the hygienic and efficient packing of food and temple items for devotees. The service gave students a way to contribute to a meaningful community effort, to build teamwork and organisational skills, and to gain first-hand experience of large-scale event management and logistics.

SDG 17 link: Target 17.17, partnership between students and a community institution in public service.



14 Mar · packing



14 Mar · volunteers



14 Mar · volunteers



15 Mar · packing


15 Mar · temple



15 Mar · volunteers

CONCLUSION

Progress towards partnerships for the goals

SRM University-AP contributes to SDG 17 through partnerships of several kinds. During Academic Year 2024–25 the University signed agreements with universities, industry, public bodies and professional organisations in India and abroad, and its researchers continued to co-author work on the Goals with partners across many countries and sectors.

The University also convened its partners: summits, conferences and a faculty development programme brought industry, public-sector institutions and academics from other universities to the campus, and they led to new collaborations, memorandums and proposals. Its degree programmes and mapped courses connect teaching to the Goals, and its outreach and volunteer activities extend that engagement to schools and local communities.

Together, these activities show an institution that treats partnership as a working method for education, research and service.