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

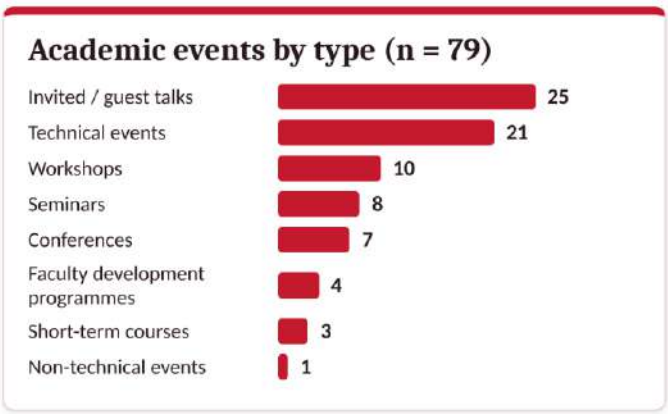
During AY 2024–25 the university mapped **116 events** to SDG 4: guest lectures, co-teaching sessions, workshops, seminars, conferences, faculty development programmes, orientation programmes and outreach activities. The pages that follow feature the events that best reflect quality education, with the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

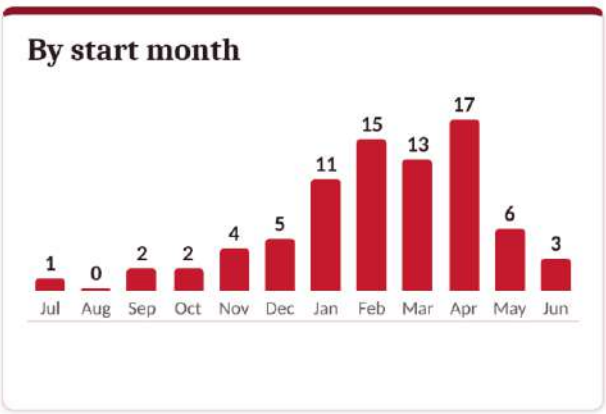
116
events mapped to SDG 4

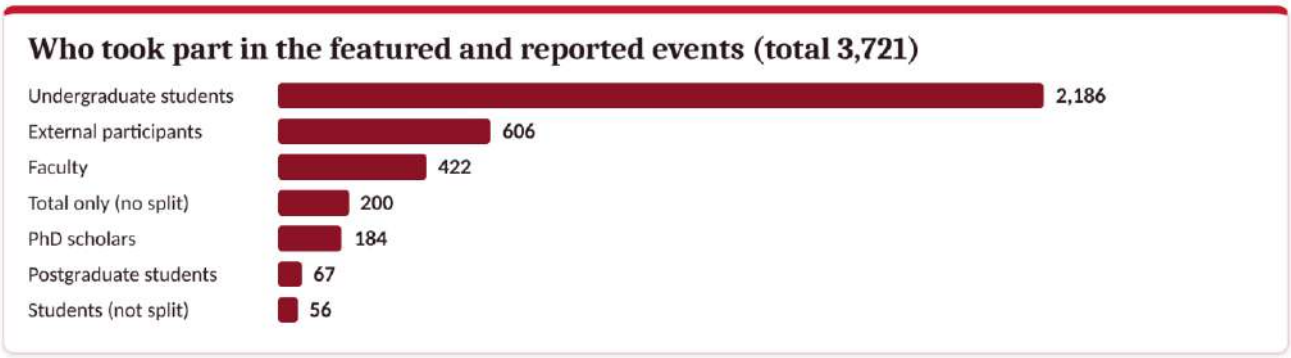
57,923
participations recorded

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

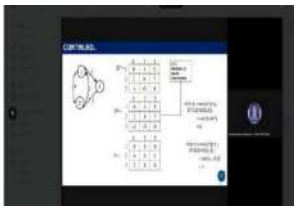
1 · Co-Teaching Sessions on Data Structures (CSE102)

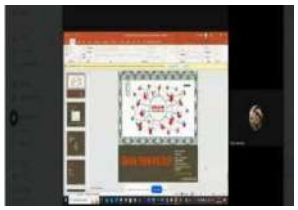
19–20 Apr 2025 · Expert lecture series · Online

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.







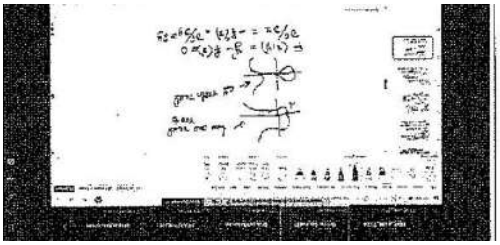


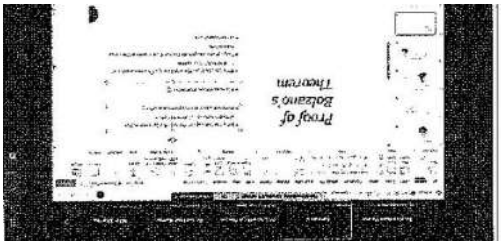
2 · Faculty Development Programme on Algebra, Analysis and Number Theory

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.



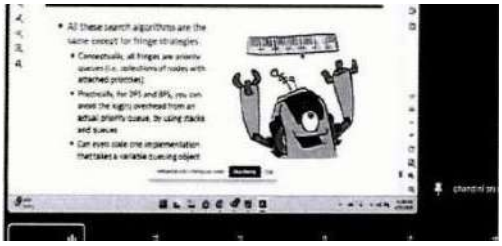


3 · Co-Teaching Sessions for Artificial Intelligence Course (Unit 4)

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.

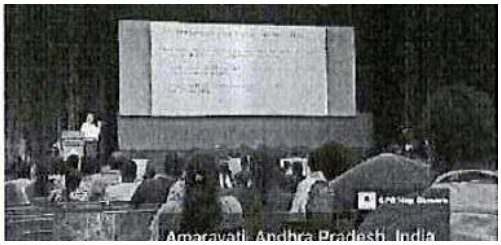


5 · Six Blind Men of Indostan: Theory and Applications of Distributed Inference

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

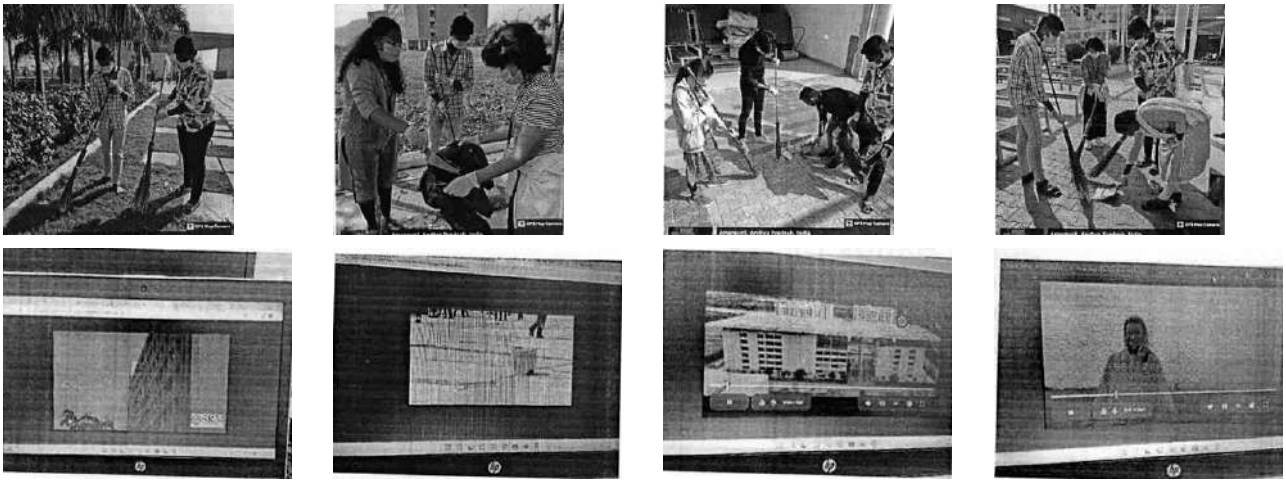
Student programmes and outreach

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.