CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, VIZIANAGARAM

SDG 17.3.17 — Publication of SDG reports: SDG 17

Publish progress against SDG 17, either individually or within an annual report · This report also publishes progress against SDG 1, SDG 3 and SDG 4

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ANDHRA PRADESH

SDG-Aligned Research & Innovation Report 2025

Publications, books and patents contributing to SDG 1, SDG 3, SDG 4 and SDG 17

83	14	7	43
Indexed papers (Scopus / WoS)	Books & book chapters	Patents published	Outputs mapped to the 4 SDGs

In 2025, CUTM AP faculty published **83 research papers** indexed in Scopus or Web of Science, **14 books and book chapters** and **7 patents**. Of these **102 distinct outputs, 43** contribute directly to the four goals in this report, led by health research (SDG 3), with learning resources for SDG 4, livelihood research for SDG 1, and SDG-progress research under SDG 17.

CONTRIBUTION TO THE FOUR SDGS

SDG 3
Good Health & Well-being

32 outputs

24 papers · 3 books · 5 patents

Targets 3.2 · 3.3 · 3.4 · 3.6 · 3.8 · 3.b

Disease diagnosis with AI, eye health, drug development and analysis, road-safety and health-monitoring patents.

SDG 4
Quality Education

9 outputs

3 papers · 6 books · 0 patents

Targets 4.1 · 4.4 · 4.7

AI tutors and educational video research, a serious game for water sustainability, and textbooks for mathematics, coding, AI, banking and health care.

SDG 1
No Poverty

3 outputs

2 papers · 1 books · 0 patents

Targets 1.4

Smallholder cashew value chains, access to digital banking, and a banking and insurance textbook.

SDG 17
Partnerships for the Goals

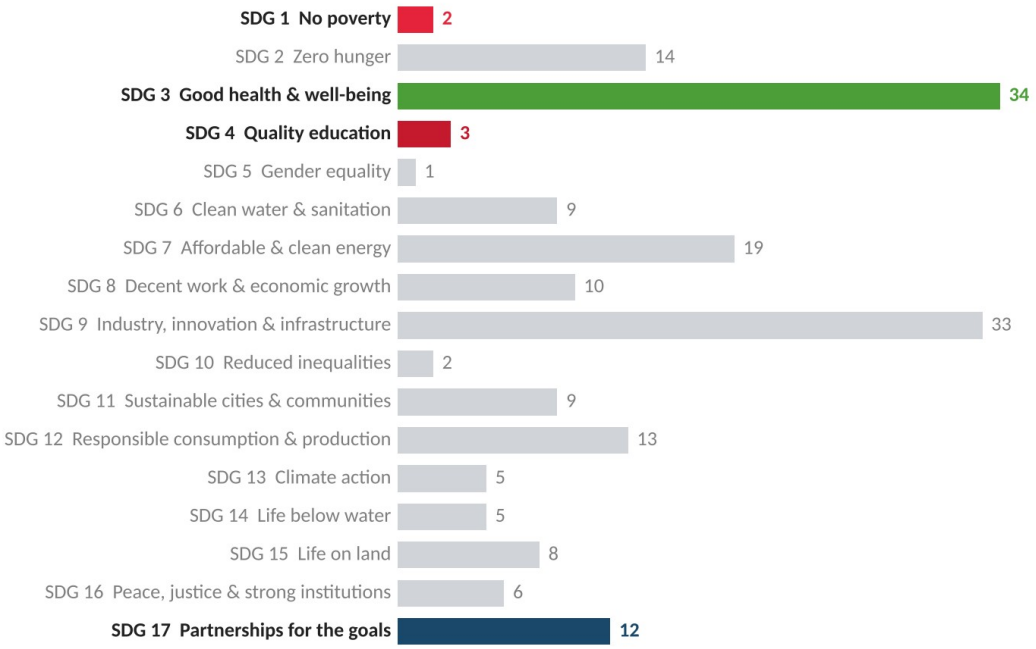
1 outputs

1 papers · 0 books · 0 patents

Targets 17.19

Research on measuring progress towards the SDGs, a 185-paper SDG research base, and SDG reporting such as this report.

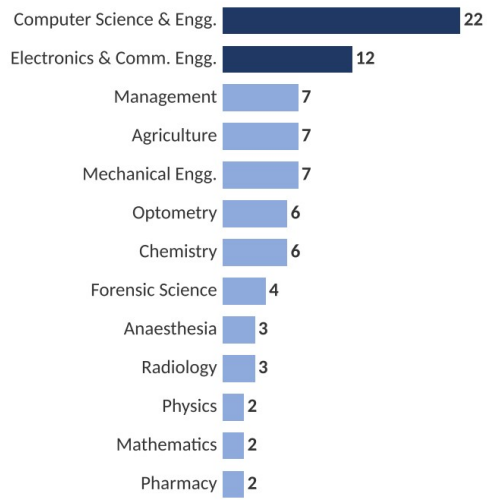
SDG PROFILE OF CUTM AP RESEARCH



Scopus publications of CUTM AP classified by SDG, up to 2026 (185 SDG-mapped publications in total). Source: SDG classification sheet supplied by CUTM AP; full table in Annexure D.

2025 RESEARCH OUTPUT AT A GLANCE

Research papers by department



Where the papers appeared

Indexed in Scopus	69
Indexed in Web of Science	26
In both Scopus and WoS	12
Journal articles	48
Conference papers	31
Book chapters (indexed)	4

After removing 12 records listed in both Scopus and WoS, 83 unique papers remain. Full list with department and index: Annexure A.

SDG 3

Good Health & Well-being

32 outputs (24 papers · 3 books · 5 patents): AI-based diagnosis of heart disease, diabetes, cancer and skin lesions, eye-health studies, drug development and analysis, and patents for road safety and health monitoring.

#	Output	Published in / ID	Type	Target
1	Surging undiagnosed disease vis-a-vis acute malnutrition among the children of DR Congo: the gaps in diagnosis, preparedness and response to contain it and suggested countermeasures Agriculture · WoS	*International Journal of Surgery: Oncology*	Journal	3.2
2	Phytochemical constituents, antioxidant and antibacterial activities of two Dendrobium hybrids Forensic Science · Scopus	*Vegetos*	Journal	3.3
3	Novel Targets and Nanotechnology Approaches in Treating Vulvovaginal Candidiasis: Insights into Host-Microbe Interactions and Immunotherapy Optometry · Scopus + WoS	*Current Pharmaceutical Design*	Journal	3.3
4	RP-HPLC Technique : A Verified Quantitative Examination of Darunavir Ethanolate and Ritonavir in Dosage Form Radiology · WoS	*Indian Journal of Natural Science*	Journal	3.3
5	UV-Spectrophotometric Determination of Favipiravir for SARS-CoV-2 Therapy Radiology · WoS	*Indian Journal of Natural Science*	Journal	3.3
6	Gut microbiome alterations in type 2 diabetes following COVID-19: A comprehensive review Anaesthesia · Scopus	*Obesity Medicine*	Journal	3.4
7	A hybrid variational mode decomposition framework for enhanced cardiac output estimation using impedance cardiography Computer Science & Engg. · Scopus	*Scientific Reports*	Journal	3.4
8	Enhancing Diabetes Prediction with Hybrid Sampling Techniques through Machine Learning and Deep Learning Models Computer Science & Engg. · Scopus + WoS	*Proceedings of 2025 AI-Driven Smart Healthcare for Society 5.0, AdSoc5.0 2025*	Conference	3.4
9	Non-Invasive Blood Pressure Monitoring and Estimation using Dual-Wavelength PPG and Machine Learning Electronics & Comm. Engg. · Scopus	*2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility, RCSM 2*	Conference	3.4
10	Development of Hybrid Deep Learning Network for Precise Segmentation of Cardiac Disease with Adaptive Nested Dilated Residual Densenet-Based Classification Electronics & Comm. Engg. · WoS	*INTERNATIONAL JOURNAL OF IMAGE AND GRAPHICS*	Journal	3.4
11	Advanced skin lesion diagnosis with efficientnet-b7 feature extraction and SVM classification Computer Science & Engg. · Scopus	*International Journal of Basic and Applied Sciences*	Journal	3.4
12	Enhancing breast cancer risk prediction through comprehensive ensemble machine learning analysis: a study on clinical, genetic, and demographic factors Computer Science & Engg. · Scopus	*International Journal of Internet Manufacturing and Services*	Journal	3.4
13	Insights on Sjögren's Syndrome: Beyond Dry Eye Symptoms Pharmacy · WoS	*JOURNAL OF YOUNG PHARMACISTS*	Journal	3.4
14	The Effect of Perioperative Thermoregulation on Cancer Surgeries: A Narrative Review Anaesthesia · WoS	*Cureus*	Journal	3.4
15	A Comparative Study of Mental Health and Stress among Working Women Mechanical Engg. · WoS	*PACIFIC BUSINESS REVIEW INTERNATIONAL*	Journal	3.4
16	Medicinal Plants: Role in Synthetic Medications Forensic Science · Scopus	*Bioactive Ingredients for Healthcare Industry Volume 1: Extraction Strategies, Stability and Me*	Book chapter	3.8
17	Multifactorial analysis of dry eye syndrome: insights from Schirmer's test, VDT exposure, and tear film stability Optometry · Scopus + WoS	*International Ophthalmology*	Journal	3.8
18	Designing Trustworthy AI Interfaces: A Human-Centered Approach to Explainability in Healthcare Diagnostics Management · Scopus	*2025 International Conference on Responsible, Generative and Explainable AI, ResGenXAI 2025*	Conference	3.8
19	Effect of Lattice Structure on Compression Strength Behavior of 3D Printed Stochastic PLA Material for Biomedical Applications Computer Science & Engg. · Scopus + WoS	*Journal of Advanced Manufacturing Systems*	Journal	3.8
20	Comment on Clinical efficacy of two modalities of selective laser trabeculoplasty in the treatment of primary open-angle glaucoma Optometry · WoS	*EUROPEAN JOURNAL OF OPHTHALMOLOGY*	Journal	3.8
21	Exploring the Frontiers of Machine Learning in Radiology: A Comprehensive Review of Applications, Advancements, and the Challenges that Lie Ahead Anaesthesia · WoS	*BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA*	Journal	3.8
22	Development And Characterization Of Azithromycin-loaded Transdermal Patches For Enhanced Antibacterial Efficacy Pharmacy · Scopus	*European Journal of Parenteral and Pharmaceutical Sciences*	Journal	3.b
23	Biopolymers, hydrogel and their effect on drug development Forensic Science · Scopus	*Smart Ways of Biomaterial Designing Synthesis and Characterization: Prospects of Enhanced Appli*	Book chapter	3.b
24	UV- Spectrophotometric Method Development and Validation of Non-Steroidal Anti-Inflammatory Drug in Pure and Formulation Radiology · WoS	*Indian Journal of Natural Science*	Journal	3.b

#	Output	Published in / ID	Type	Target
25	Autonomous Robots: A Disruptive Technology in the Health Sector (chapter)	*Creating Smart Healthcare with Blockchain and Advanced Digital Technologies (Apple Academic Pre*	Book chapter	3.8
26	Fundamentals of Basic Health Care System	*AkiNik Publications*	Book	3.8
27	Effect of Radiation in Treating the Eye	*Self-published (Amazon)*	Book	3.8
28	Wearable Patch for Real-Time Stress Detection with AI Analytics and Cloud-Based Health Reporting Electronics & Comm. Engg.	Indian patent appl. 202541098563	Patent	3.4
29	Deep Learning-Driven Traffic Incident Detection and Road Safety Enhancement System Computer Science & Engg.	Indian patent appl. 202541032802	Patent	3.6
30	Adaptive IoT-Based Smart Traffic Monitoring and Accident Mitigation System Using Machine Learning Computer Science & Engg.	Indian patent appl. 202541013276	Patent	3.6
31	Wearable IoT Device for Road User Safety with Machine Learning Based Gesture Recognition Mechanical Engg.	Indian patent appl. 202541017514A	Patent	3.6
32	Inhalable Biodegradable Nanoparticle Composition and Method Physics	Indian patent appl. 202511096855	Patent	3.b

SDG 4

Quality Education

9 outputs (3 papers · 6 books · 0 patents): research on AI tutors and educational content for children, a serious game that teaches water sustainability (4.7), and textbooks that build skills (4.4).

#	Output	Published in / ID	Type	Target
1	AI Tutors and Virtual Classrooms: Bridging Gaps in Access to Quality Education Management · Scopus	*2025 3rd International Conference on IoT, Communication and Automation Technology, ICICAT 2025*	Conference	4.1
2	Personalized Educational Video Recommendations in Cyber Physical Systems for Children Computer Science & Engg. · Scopus	*Proceedings of 3rd International Conference on Intelligent Cyber Physical Systems and Internet*	Conference	4.1
3	Agri Water Game: A Serious Gaming Framework for Agricultural Water Sustainability Computer Science & Engg. · Scopus + WoS	*2025 IEEE 9th International Conference on Information and Communication Technology, CICT 2025*	Conference	4.7
4	Rapid Mathematics (Vol I)	*Self-published (Amazon)*	Book	4.4
5	Rapid Mathematics (Vol II)	*Self-published (Amazon)*	Book	4.4
6	How to build AI agents in simple steps	*Self-published (Amazon)*	Book	4.4
7	Python Ka Funda	*Self-published (Amazon)*	Book	4.4
8	Introduction to Banking and Insurance	*Oxford Publishers and Distributors*	Book	4.4
9	Fundamentals of Basic Health Care System	*AkiNik Publications*	Book	4.4

SDG 1

No Poverty

3 outputs (2 papers · 1 books · 0 patents): income of small cashew farmers, access to digital banking, and a banking and insurance textbook (target 1.4, access to economic resources and financial services).

#	Output	Published in / ID	Type	Target
1	Impact of Digital Wallets Usage on Digital Banking Experience Management · Scopus	*Smart Innovation, Systems and Technologies*	Conference	1.4
2	Modelling the Cashew Value Chain in Gajapati and Rayagada Using Financial Modelling Tools: A Comparative Study of Small and Large Farmers Management · Scopus	*2nd International Conference on Cognitive, Green and Ubiquitous Computing, IC-CGU 2025*	Conference	1.4
3	Introduction to Banking and Insurance	*Oxford Publishers and Distributors*	Book	1.4

SDG 17

Partnerships for the Goals

1 paper addresses how progress towards the SDGs is measured (target 17.19). The wider SDG research base and this report support the goal.

#	Output	Published in / ID	Type	Target
1	Exploring Predictive Modeling Approaches in Finance for Measuring, Tracking and Accelerating the Progress of Global Sustainable Development Objectives Mechanical Engg. · Scopus	*Proceedings of the 1st IEEE International Conference on Advances in Next-Gen Computer Science,*	Conference	17.19

185
Scopus publications of CUTM AP mapped across all 17 SDGs (up to 2026), the research base that SDG 17 draws on.

12
of these are classified under SDG 17 itself in the Scopus SDG classification.

1
institutional SDG report: this document, published for SDG reporting and transparency.

STRENGTHENING EACH SDG CLAIM

SDG 3

Keep the lead

Health is the strongest goal. Track citations and clinical or community use of the 2025 health papers and patents.

SDG 4

Publish education research

Only 3 papers are on education itself. Encourage studies on teaching, skills training and learning outcomes.

SDG 1

Grow poverty research

Only 2 papers and 1 book. Link agriculture, management and finance work to rural incomes and inclusion.

SDG 17

Show collaboration

Record international and industry co-authorship, MoUs and joint projects behind each paper.

Data: CUTM AP publication list 2025 (Scopus and Web of Science; 95 records, 83 unique after removing duplicates by DOI or title), books and chapters 2025 (15 records, 14 unique), patents published in 2025 (7), and the Scopus SDG classification sheet (up to 2026). An output is counted under an SDG when its title shows a direct link to a target of that goal; the mapping is proposed by the institution. Two book chapters also appear in the paper list and are counted once in the SDG totals. Four books are self-published (Amazon). Indexing as listed in the source file.

ABBREVIATIONS USED IN THIS REPORT

CUTM AP	Centurion University of Technology and Management, Andhra Pradesh	**DOI**	Digital Object Identifier
SDG	Sustainable Development Goal	**AI**	Artificial Intelligence
UN	United Nations	**IoT**	Internet of Things
WoS	Web of Science	**MoU**	Memorandum of Understanding

ANNEXURE A: 83 INDEXED RESEARCH PAPERS, 2025

Proof for the "83 indexed papers" figure and the department and indexing counts on page 2. The source list has 95 records; 12 papers appear in both Scopus and WoS and are listed once here as "Scopus + WoS". Sorted by department.

#	Title · Authors	Department	Journal / Conference	Indexed in	DOI · SDG mapping
1	Characterization and Evaluation of Tomato (Solanum lycopersicum L.) Genotypes for Distinctness, Uniformity, Stability and Yield Attributes B. Pavan Kumar Naik, A P Gokul, S Alekya Naidu, M. Velavan, Praveenkumar S, J. Sam Ruban	Agriculture	*Journal of Advances in Biology & Biotechnology*	WoS	10.9734/jabb/2025/v28i103134
2	Comprehensive Analysis of SPL Genes in Cucurbitaceae Species: Evolutionary Insights, Functional Diversity and Regulatory Mechanisms Neelam P.; Lalam B.; Manavi J.; Prusty G.; Polaki S.; Ganesh P.	Agriculture	*Iranian Journal of Science*	Scopus + WoS	10.1007/s40995-025-01818-w
3	Extended Approach for Soil and Crop Prediction Using Deep Learning Rao B.N.; Polaki S.; Murthy B.S.; Narayana G.V.S.	Agriculture	*2025 International Conference on Next Generation of Green Information and Emerging Technol*	Scopus	10.1109/giet65294.2025.11234774
4	Impact of sublethal copper exposure on Penaeus indicus post-larvae: biochemical and proteomic insights Polaki, S; Thatipaka, SDR; Paila, RV	Agriculture	*AQUACULTURE INTERNATIONAL*	WoS	10.1007/s10499-024-01705-y
5	Morphological variability among the populations of workers and associated males of Tetragonula nr. pagdeni Schwarz in the lateritic zone of West Bengal, India Layek, A; Viraktamath, S; Mandal, D; Saha, S; Jha, S	Agriculture	*INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE*	WoS	10.1007/s42690-025-01694-2
6	Recent progress and future perspectives of biopolymer-based composites for energy storage and generation Polaki S.; Mereddy S.; Ramya K.; Mohanbabu C.; Aswini Kumar M.	Agriculture	*Biopolymer-based Composites for Energy Generation and Storage*	Scopus	10.1016/b978-0-443-31522-0.00012-9
7	Surging undiagnosed disease vis-a-vis acute malnutrition among the children of DR Congo: the gaps in diagnosis, preparedness and response to contain it and suggested countermeasures G Pushpalatha	Agriculture	*International Journal of Surgery: Oncology*	WoS	10.1097/ij9.0000000000000141 SDG 3.2
8	Exploring the Frontiers of Machine Learning in Radiology: A Comprehensive Review of Applications, Advancements, and the Challenges that Lie Ahead Naga Theja, Chaitanya, Vani Pushpa, Sudheendra, Santosh Kumar, Sambangi Satyananda Siva	Anaesthesia	*BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA*	WoS	10.13005/bbra/3343 SDG 3.8
9	Gut microbiome alterations in type 2 diabetes following COVID-19: A comprehensive review Bose N.; Bisht D.; Kumar M.V.; Nawar K.A.; Chalissery B.; Neha D.; Dung Dung N.; Rawat S.; Ahuja D.; Choudh...	Anaesthesia	*Obesity Medicine*	Scopus	10.1016/j.obmed.2025.100643 SDG 3.4
10	The Effect of Perioperative Thermoregulation on Cancer Surgeries: A Narrative Review Chetla Rakesh, Anagani Hrushikesh, CVVK Chaitanya, Visirikayala Naga Sireesha	Anaesthesia	*Cureus*	WoS	10.7759/cureus.97870 SDG 3.4
11	AN ANALYSIS OF PB(II) ION REMOVAL FROM AQUEOUS SOLUTIONS EMPLOYING VARIOUS IRON TITANATE (FETIO3) NANOPARTICLE COMPOSITIONS Prathipati J.R.R.; Rambabu T.; Kota R.; Ampolu S.; Matcha S.B.; Varma P.V.S.K.P.; Taidala N.; Narasimhulu T.	Chemistry	*Rasayan Journal of Chemistry*	Scopus	10.31788/rjc.2025.1839148
12	Cyclodextrins for UV Protection in Food, Beverages, and Agricultural Products: A Comprehensive Review Miditana S.R.; Dokka W.T.; Babu A.R.; Ampolu S.; Agarwal N.; Simma N.	Chemistry	*North African Journal of Food and Nutrition Research*	Scopus	10.51745/najfnr.9.20.219-235
13	Design and Study of Nano-Composite Materials based Transparent Conductive Electrode using Green Synthesis method for Solar Cells Lakshmi Y.V.B.; Saujanya K.; Ampolu S.; Prathipati J.; Asileti S.K.; Usha H.; Kota R.; Tamminana N.	Chemistry	*Trends in Sciences*	Scopus	10.48048/tis.2025.10305
14	PREPARING ZnO/RGO NANO COMPOSITE THROUGH HYDROTHERMAL SYNTHESIS FOR THE REALM OF BIOCHEMISTRY Kota R.; Narasimhulu T.; Prathipati J.R.R.; Matcha S.B.; Bhaskara Lakshmi Y.V.; Varma P.V.S.K.P.; Bonjubabu...	Chemistry	*Rasayan Journal of Chemistry*	Scopus	10.31788/rjc.2025.1829152
15	Rejuvenating Water Canals – A Mean of Achieving Sustainability Development Goal-15 Acharyulu M.L.N.; Bhadra P.; Babu K.V.; Praveena S.; Tanushka S.; Sona M.; Nikhil G.; Gayathri J.; Jyothi K...	Chemistry	*Water and Energy International*	Scopus	—
16	TMSCl as greener and effective solvent for the synthesis of carbanyl derivatives Satheesh Ampolu	Chemistry	*Journal of Scitific research*	WoS	10.3329/jsr.v17i1.73494
17	A Comprehensive Review on Video Recommendation System: Models, Challenges, and Applications Harichandan L.; Nayak S.K.; Lenka S.	Computer Science & Engg.	*Journal of Engineering Science and Technology Review*	Scopus	10.25103/jestr.183.21
18	A convolutional neural network with average pooling for chickpea disease detection and classification Srilakshmi C.H.; Sridevi G.; Krishnaveni M.; Sekhar C.; Vamsinath J.; Arasavalli N.; Kumar M.S.	Computer Science & Engg.	*International Journal of Basic and Applied Sciences*	Scopus	10.14419/pr4acd16
19	A hybrid variational mode decomposition framework for enhanced cardiac output estimation using impedance cardiography Kumari P.D.; Singh K.M.; Mayaluri Z.L.; Sahoo P.K.; Lenka S.; Panda G.; Agir S.K.	Computer Science & Engg.	*Scientific Reports*	Scopus	10.1038/s41598-025-09948-2 SDG 3.4
20	Advanced skin lesion diagnosis with efficientnet-b7 feature extraction and SVM classification Manjula V.; Ratnam P.P.; Priya G.P.; Dharmaraju G.; Suneetha R.; Arasavalli N.; Kumar M.S.	Computer Science & Engg.	*International Journal of Basic and Applied Sciences*	Scopus	10.14419/hgnb5045 SDG 3.4
21	Agri Water Game: A Serious Gaming Framework for Agricultural Water Sustainability Kolagani N.; Matham P.K.; Vivekanandan M.	Computer Science & Engg.	*2025 IEEE 9th International Conference on Information and Communication Technology, CICT 2*	Scopus + WoS	10.1109/cict67193.2025.11399088 SDG 4.7
22	Analysis of Mechanical Properties of Components Produced by Additive Manufacturing Kumar K.S.; Venkata Ramana V.S.N.V.; Shankar N.V.S.; Bhavani K.; Abhinav G.	Computer Science & Engg.	*Journal of Advanced Manufacturing Systems*	Scopus + WoS	10.1142/s0219686725500192
23	Blockchain-Enabled Financial Reengineering for Sustainable Social Innovation in the Indian IT Industry Tirpude R.; Kowtal J.; Palav M.R.; Ganapa J.R.; Shrivastava N.; Moholkar N.	Computer Science & Engg.	*1st International Conference on Advances in Computer Science, Electrical, Electronics, and*	Scopus	10.1109/ce2ct64011.2025.10941210
24	Chroma Features Based Music Genre Classification Using Machine and Deep Learning Algorithms Lenka S.; Yadav M.A.; Balaram T.; Jhansi K.; Lazarus M.Z.; Harichandan L.	Computer Science & Engg.	*Proceedings - 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processi*	Scopus	10.1109/isssc66652.2025.11389114
25	Cloud Computing-Powered Customer Behavior Analytics System for Marketing Efficiency Harisha B.S.; Venkatesh R.; Ganapa J.R.; Dave R.C.; Joshi N.R.; Kanimozhi S.	Computer Science & Engg.	*Proceedings of 2025 10th International Conference on Science Technology, Engineering and M*	Scopus	10.1109/iconstem65670.2025.11374720
26	Deep learning-based approach for classifying mandarin orange maturity Singh R.; Nickhil C.; Upendar K.; Mishra P.; Chandra Deka S.	Computer Science & Engg.	*Sustainable Food Technology*	Scopus	10.1039/d5fb00408j

#	Title · Authors	Department	Journal / Conference	Indexed in	DOI · SDG mapping
27	Effect of Lattice Structure on Compression Strength Behavior of 3D Printed Stochastic PLA Material for Biomedical Applications Ramana V.S.N.V.; Kumar K.S.; Dinesh B.; Shankar N.V.S.; Abhinav G.; Sai T.B.	Computer Science & Engg.	*Journal of Advanced Manufacturing Systems*	Scopus + WoS	10.1142/s0219686727500417 SDG 3.8
28	Effect of Lattice Structure on Surface Roughness and Thermal Conductivity of FDM Components Venkata Ramana V.S.N.; Bhavani K.; Sandeep Kumar K.; Shankar N.V.S.; Abhinav G.	Computer Science & Engg.	*Smart Innovation, Systems and Technologies*	Scopus	10.1007/978-981-96-4718-7_48
29	Enhancing breast cancer risk prediction through comprehensive ensemble machine learning analysis: a study on clinical, genetic, and demographic factors Mallick C.; Behera C.R.; Parida S.K.; Paikaray B.K.	Computer Science & Engg.	*International Journal of Internet Manufacturing and Services*	Scopus	10.1504/ijims.2025.148601 SDG 3.4
30	Enhancing Diabetes Prediction with Hybrid Sampling Techniques through Machine Learning and Deep Learning Models Tharannum A.; Bhanu Prakash Ch.; Saranya G.; Alekhya P.; Supriya N.; Lakshmanarao A.	Computer Science & Engg.	*Proceedings of 2025 AI-Driven Smart Healthcare for Society 5.0, AdSoc5.0 2025*	Scopus + WoS	10.1109/ieeeconf64992.2025.10963149 SDG 3.4
31	Federated Learning for Cyberattack Detection in Multi-Cloud Platforms Kalpana D.; Kanthimathi M.; Ganapa J.; Tripathi D.K.; Tiwari S.; Waoo A.A.	Computer Science & Engg.	*Proceedings of the 2025 3rd International Conference on Advances in Computation, Communica*	Scopus	10.1109/icaiccit68829.2025.11434312
32	Genre Preferences Based Personalized Video Recommendations for Children Using Graph Neural Network Harichandan L.; Nayak S.K.; Lenka S.	Computer Science & Engg.	*SN Computer Science*	Scopus	10.1007/s42979-024-03644-0
33	HGNN-NCF: A Hybrid Neural Framework for Child-Friendly TikTok Video Recommendation Harichandan L.; Nayak S.K.; Lenka S.; Pradhan D.; Mishra J.K.; Badatya R.	Computer Science & Engg.	*Proceedings - 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processi*	Scopus	10.1109/isssc66652.2025.11388462
34	LightGCN for Children: Graph-Based Video Suggestion Using Genre Semantics and Poster Image Harichandan L.; Nayak S.K.; Lenka S.; Swain A.; Pradhan D.; Mishra J.K.	Computer Science & Engg.	*2025 International Conference on Responsible, Generative and Explainable AI, ResGenXAI 202*	Scopus	10.1109/resgenxai64788.2025.11344057
35	Optimizing Restaurant Billing through Intelligent Systems for Enhanced Customer Satisfaction using Machine Learning Rath M.; Harichandan L.; Lenka S.	Computer Science & Engg.	*Proceedings - 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processi*	Scopus	10.1109/isssc66652.2025.11388571
36	Personalized Educational Video Recommendations in Cyber Physical Systems for Children Harichandan L.; Nayak S.K.; Lenka S.	Computer Science & Engg.	*Proceedings of 3rd International Conference on Intelligent Cyber Physical Systems and Inte*	Scopus	10.1109/icoici65217.2025.11253373 SDG 4.1
37	Sentiment Analysis of Hate Speech on Women in Social Media Platform Using Multi Label Classification Pillala P.; Ramana K.V.	Computer Science & Engg.	*Annals of Data Science*	Scopus	10.1007/s40745-024-00584-7
38	Transforming organizational culture with AI: Opportunities and challenges Parida S.K.; Panda M.; Panda B.	Computer Science & Engg.	*AI and Innovation in HRM: The Future of Strategic HR in the Service Economy*	Scopus	10.4324/9781003522157-27
39	Circular Antenna Array Optimization Using MSGOA - Constrained Null Pattern Synthesis Srikala E.V.S.D.N.S.L.K.; Krishna M.V.; Murali M.; Rajeswari M.; Jahnavi B.S.	Electronics & Comm. Engg.	*4th Wireless, Antenna and Microwave Symposium, WAMS 2025*	Scopus	10.1109/wams64402.2025.11158330
40	Comparative performance analysis of different gate structure engineering on double gate tunnel FET Muduli S.S.; Dastidar A.; Tripathy A.; Swain S.K.	Electronics & Comm. Engg.	*Next Materials*	Scopus + WoS	10.1016/j.nxmate.2025.100966
41	DESIGN OF A 2.45 GHZ COMPACT WEARABLE ANTENNA FOR WIRELESS BODY AREA NETWORKS AND INDUSTRIAL WIRELESS APPLICATIONS Varma D.R.; Murali M.; Krishna M.V.; Subbarao M.V.	Electronics & Comm. Engg.	*Proceedings on Engineering Sciences*	Scopus	10.24874/pes07.01b.009
42	Development of Hybrid Deep Learning Network for Precise Segmentation of Cardiac Disease with Adaptive Nested Dilated Residual Densenet-Based Classification Sahukaru, J; Swain, SK; Ramana, BV	Electronics & Comm. Engg.	*INTERNATIONAL JOURNAL OF IMAGE AND GRAPHICS*	WoS	10.1142/s0219467827500641 SDG 3.4
43	Growth, productivity and quality of gerbera cultivars under forced-and open ventilated polyhouse conditions Sairam M.; Ray S.; Padhi D.P.; Sunny Dayal P.A.; Santosh D.T.; Maitra S.	Electronics & Comm. Engg.	*Research on Crops*	Scopus	10.31830/2348-7542.2025.roc-1256
44	Influence of drip fertigation on growth, yield and quality attributes of broccoli under polyhouse and open field conditions Santosh D.T.; Mandal D.; Sunny Dayal P.A.; Sairam M.; Gaikwad D.J.; Ray S.; Maitra S.	Electronics & Comm. Engg.	*Research on Crops*	Scopus	10.31830/2348-7542.2025.roc-1250
45	IOT-Web Monitor and Controlled Real Time Smart Drip Irrigation System Using ESP32 Microcontroller Srilatha G.; Subramanya Sarma S.; Dayal P.A.S.; Murthy V.N.S.R.; Babu C.K.; Devadass P.	Electronics & Comm. Engg.	*2025 International Conference on Electrical and Electronics Engineering, ICE3 2025*	Scopus	10.1109/ice367573.2025.11448961
46	Miniaturized Fractal Antenna Design for 6-GHz 5G Advanced Communications Patnaik P.K.; Murali M.; Mohanta H.C.; Panda D.C.	Electronics & Comm. Engg.	*Advanced Electromagnetics*	Scopus + WoS	10.7716/aem.v14i3.2482
47	Non-Invasive Blood Pressure Monitoring and Estimation using Dual-Wavelength PPG and Machine Learning Anil S.; Naresh M.; Kuriti J.; Kollem S.; Peddakrishna S.; Gaddam C.K.; Krishnaiah M.	Electronics & Comm. Engg.	*2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility, R*	Scopus	10.1109/rcsm67767.2025.11507881 SDG 3.4
48	Real-Time Multimodal Detection for Campus Autonomous Mobility Using Edge Computing Balagam R.; Shaik Z.B.; Peddakrishna S.; Kollem S.; Kumar J.; Kuriti J.	Electronics & Comm. Engg.	*2025 5th IEEE International Conference on Applied Electromagnetics, Signal Processing, and*	Scopus	10.1109/aespc67542.2025.11326789
49	Smart Campus Traffic Surveillance with YOLOv8n and IoT-Enabled Monitoring Interface Shaik Z.B.; Krishnaiah M.; Peddakrishna S.; Kollem S.; Kumar J.; Kuriti J.	Electronics & Comm. Engg.	*2025 5th IEEE International Conference on Applied Electromagnetics, Signal Processing, and*	Scopus	10.1109/aespc67542.2025.11326868
50	Smart IoT-Based Pre-Drive Diagnostic and Mode Indication Framework for Autonomous Driving Shaik Z.B.; Peddakrishna S.; Kollem S.; Krishnaiah M.; Naresh M.; Kuriti J.	Electronics & Comm. Engg.	*2025 10th International Conference on Research in Intelligent Computing in Engineering, RI*	Scopus	10.1109/rice67503.2025.11439987
51	Biopolymers, hydrogel and their effect on drug development Jena B.R.; Ratha B.N.; Pattnaik G.; Kothakota N.J.; Puhan B.; Islam S.S.; Panda A.	Forensic Science	*Smart Ways of Biomaterial Designing Synthesis and Characterization: Prospects of Enhanced*	Scopus	— SDG 3.b
52	Medicinal Plants: Role in Synthetic Medications Bashar S.; Kothakota N.J.; Behura N.A.	Forensic Science	*Bioactive Ingredients for Healthcare Industry Volume 1: Extraction Strategies, Stability a*	Scopus	10.1007/978-981-96-3663-1_9 SDG 3.8
53	Phytochemical constituents, antioxidant and antibacterial activities of two Dendrobium hybrids Behura N.A.; Kothakota N.J.	Forensic Science	*Vegetos*	Scopus	10.1007/s42535-025-01449-x SDG 3.3
54	Phytochemical profiling of Bambusa vulgaris and Bambusa balcooa: Therapeutic prospects for bovine digestive disorders and anthelmintic applications Dash S.S.; Kumar S.; Kathakota N.J.; Mahalik G.	Forensic Science	*Plant Science Today*	Scopus	10.14719/pst.9739

#	Title · Authors	Department	Journal / Conference	Indexed in	DOI · SDG mapping
55	A Hybrid Framework for Predicting Stock Market Volatility Using Financial Models and Machine Learning Atmakuri A.R.; Nandini G.; Pallavi M.; Samantaray A.; Chappa M.; Padhi S.	Management	*2025 7th International Conference on Information Systems and Computer Networks, ISCON 2025*	Scopus	10.1109/iscon65210.2025.11340805
56	AI Tutors and Virtual Classrooms: Bridging Gaps in Access to Quality Education Chawda K.; Dash S.R.; Agrawalla R.; Kumar A.; Sarangi P.	Management	*2025 3rd International Conference on IoT, Communication and Automation Technology, ICICAT*	Scopus	10.1109/icicat68430.2025.11414558 SDG 4.1
57	Blockchain Applications in Supply Chain Management: Enhancing Transparency and Traceability Chappa M.; Rathore V.; Farooquie J.A.; Bhardwaj J.M.; Roy S.; Vakayil S.	Management	*1st International Conference on Advances in Computer Science, Electrical, Electronics, and*	Scopus	10.1109/ce2ct64011.2025.10939844
58	Designing Trustworthy AI Interfaces: A Human-Centered Approach to Explainability in Healthcare Diagnostics Pradhan R.R.; Kumar Mohanty P.; Chappa M.	Management	*2025 International Conference on Responsible, Generative and Explainable AI, ResGenXAI 202*	Scopus	10.1109/resgenxai64788.2025.11344037 SDG 3.8
59	Impact of Digital Wallets Usage on Digital Banking Experience Devi Prasad Kotni V.V.; Bogala M.R.; Vanapalli G.L.; Vemula R.; Nitcherla S.; Nagaraj K.V.	Management	*Smart Innovation, Systems and Technologies*	Scopus	10.1007/978-981-96-0147-9_49 SDG 1.4
60	Measuring Customer Perception on Promotion of Tourism Destinations Using AR and VR Applications: Model Testing and Validation Kotni V.V.D.P.; Bogala M.R.; Vanapalli G.L.; Nagaraj K.V.; Nitcherla S.; Vemula R.	Management	*Smart Innovation, Systems and Technologies*	Scopus	10.1007/978-981-96-0139-4_44
61	Modelling the Cashew Value Chain in Gajapati and Rayagada Using Financial Modelling Tools: A Comparative Study of Small and Large Farmers Durga Prasad N.; Pattanayak K.P.; Hudgi N.; Mehazabeen A.; Kumar A.; Sahoo D.K.	Management	*2nd International Conference on Cognitive, Green and Ubiquitous Computing, IC-CGU 2025*	Scopus	10.1109/ic-cgu67042.2025.11338098 SDG 1.4
62	MODIFIED QCD GHOST SCALAR FIELD DARK ENERGY IN ANISOTROPIC AND INTERACTING UNIVERSE MODELS Prasuna P.J.; Chinnappalanaidu T.; Satyanarayana G.; Raju N.K.M.; Navya K.; Sobhanbabu Y.	Mathematics	*East European Journal of Physics*	Scopus	10.26565/2312-4334-2025-4-04
63	The Dynamics and Applications of an Optimal Iterative Method Mylapalli M.S.K.; IAENG N.K.M.; Singh V.; Pragathi C.; Sundarayya P.	Mathematics	*IAENG International Journal of Applied Mathematics*	Scopus	—
64	A Comparative Study of Mental Health and Stress among Working Women Sailatha, G; Swathi, RSVR; Alam, S; Saikia, MD; Choudari, S	Mechanical Engg.	*PACIFIC BUSINESS REVIEW INTERNATIONAL*	WoS	— SDG 3.4
65	Artificial Intelligence in Automated Trading Systems: Assessing the Impact on Market Efficiency and Stability Agarwal K.; Rahman A.; Lakkangoudra S.B.; Vijaykrishna R.; Choudari S.; Velankanni T.R.	Mechanical Engg.	*Proceedings of the 2025 International Conference on Technology Enabled Economic Changes, I*	Scopus	10.1109/intech64186.2025.11198327
66	Artificial Intelligence in Renewable Energy Systems: Optimizing Efficiency, Sustainability, and Business Management Choudari S.; Ramakrishna R.; Malathi P.; Venkatagiri J.; Rusia S.; Haque S.A.	Mechanical Engg.	*Proceedings of the 2025 International Conference on Technology Enabled Economic Changes, I*	Scopus	10.1109/intech64186.2025.11198536
67	Cultural Landscapes and Sustainable Tourism Development: Balancing Conservation and Economic Growth Singh S.K.; Choudari S.; Dubey A.; Rani N.; Dutta I.; Singh O.S.; Singh H.	Mechanical Engg.	*Journal of Applied Bioanalysis*	Scopus	10.53555/jab.v11i1.060
68	Effect of chamber pressure and filament temperature on nucleation and growth of diamond on tungsten carbide cutting tool for machining aluminum Jena A.; Pattnaik S.K.; Sarangi S.K.	Mechanical Engg.	*Advances in Materials and Processing Technologies*	Scopus	10.1080/2374068x.2025.2552442
69	Exploring Predictive Modeling Approaches in Finance for Measuring, Tracking and Accelerating the Progress of Global Sustainable Development Objectives Jeyaprabha B.; Vijayakumar M.; Vijayakanthan S.; Choudari S.; Bhavanam S.N.; Krishnamoorthi M.	Mechanical Engg.	*Proceedings of the 1st IEEE International Conference on Advances in Next-Gen Computer Scie*	Scopus	10.1109/icancs65819.2025.11377270 SDG 17.19
70	Vision Transformers-Based Structural Health Monitoring System for Bridge Safety Choudari S.; Gosavi S.; Ramu B.; Hemalatha J.; Pawar S.; Al Nidal Al Said N.	Mechanical Engg.	*Proceedings ICECONF 2025 - 2025 2nd International Conference on Artificial Intelligence an*	Scopus	10.1109/iceconf65644.2025.11379672
71	Biosmart Environmental Technologies Integrating of AI and IoT for Real Time Monitoring of Lead Induced Stress in Pila Globosa Prusty G.; Rabi Prasad B.; Suman P.; Sravani M.; Narayana G.V.S.	Optometry	*2025 International Conference on Next Generation of Green Information and Emerging Technol*	Scopus	10.1109/giet65294.2025.11234843
72	Comment on “forensic implication of zinc sulfide and zinc sulfide nanoparticles toxicity on muscle histopathology and postmortem changes in rats” Labishetty S.C.; Kumar N.D.; Vajrala K.R.	Optometry	*Forensic Science, Medicine, and Pathology*	Scopus + WoS	10.1007/s12024-025-01093-6
73	Comment on Clinical efficacy of two modalities of selective laser trabeculoplasty in the treatment of primary open-angle glaucoma Kumar, ND; Mandal, R; Labishetty, SC	Optometry	*EUROPEAN JOURNAL OF OPHTHALMOLOGY*	WoS	10.1177/11206721251407027 SDG 3.8
74	Integrative multi-omics characterization of the gut microbiome in Pila globosa: functional insights into nutrient cycling and detoxification potential Prusty G.; Prasad B.R.; Polaki S.; Mereddy S.	Optometry	*World Journal of Microbiology and Biotechnology*	Scopus + WoS	10.1007/s11274-025-04675-2
75	Multifactorial analysis of dry eye syndrome: insights from Schirmer's test, VDT exposure, and tear film stability Mereddy S.; Gunnam R.P.; Karedla S.R.; Banerjee S.K.; Polaki S.	Optometry	*International Ophthalmology*	Scopus + WoS	10.1007/s10792-025-03597-0 SDG 3.8
76	Novel Targets and Nanotechnology Approaches in Treating Vulvovaginal Candidiasis: Insights into Host-Microbe Interactions and Immunotherapy Lalwani A.; Singh S.; Parua S.; Ahuja D.; Adhikary K.; Maiti R.; Bhattacharya K.; Banerjee S.K.; Syamal A.K.	Optometry	*Current Pharmaceutical Design*	Scopus + WoS	10.2174/0113816128388596251001075837 SDG 3.3
77	Development And Characterization Of Azithromycin-loaded Transdermal Patches For Enhanced Antibacterial Efficacy Srinu K.; Devi M.G.; Pavitra D.; Chintapalli G.S.; Surendra K.; Kumar M.V.	Pharmacy	*European Journal of Parenteral and Pharmaceutical Sciences*	Scopus	10.37521/ejpps30309 SDG 3.b
78	Insights on Sjögren's Syndrome: Beyond Dry Eye Symptoms Patra, D; Mishra, K; Jabeen, A; Parida, P; Dash, A; Chintapalli, GS; Jena, D	Pharmacy	*JOURNAL OF YOUNG PHARMACISTS*	WoS	10.5530/jyp.20251687 SDG 3.4
79	Assessment of micro-structural and magnetic properties of M0.5Cu0.4Zn0.1Fe2O4 (M = Ni, Co) nanocrystalline ferrites Vijaya Babu K.; Chandra Sekhar K.S.K.R.; Acharyulu M.L.N.; Nooka Raju C.; Murali M.; Taddesse P.	Physics	*Inorganic and Nano-Metal Chemistry*	Scopus + WoS	10.1080/24701556.2024.2354487
80	Detection of Explosive Residues using Nanomaterial-based Sensors: A Review Chavan V.A.; Bhagat D.S.; Gangawane A.K.; Vijaya Babu K.; Pansare D.; Thorat B.R.; Borade R.M.; Chawla V.; ...	Physics	*Current Nanoscience*	Scopus	10.2174/0115734137277198231218060425
81	RP-HPLC Technique : A Verified Quantitative Examination of Darunavir Ethanolate and Ritonavir in Dosage Form CH.Nooka Raju,	Radiology	*Indian Journal of Natural Science*	WoS	— SDG 3.3
82	UV- Spectrophotometric Method Development and Validation of Non-Steroidal Anti-Inflammatory Drug in Pure and Formulation CH.Nooka Raju, Anusha G, Poojitha S , Sushma Bee SK, Jasmika Chowdary G and Lavanya G	Radiology	*Indian Journal of Natural Science*	WoS	— SDG 3.b

#	Title · Authors	Department	Journal / Conference	Indexed in	DOI · SDG mapping
83	UV-Spectrophotometric Determination of Favipiravir for SARS-CoV-2 Therapy CH.Nooka Raju, Bhagavan Rajesh Babu Koppisetty, Vineela P, Swathi P , Alekhya G and Niharika G	Radiology	*Indian Journal of Natural Science*	WoS	– SDG 3.3

ANNEXURE B: 14 BOOKS AND BOOK CHAPTERS, 2025

Proof for the "14 books & book chapters" figure. Two chapters are also indexed papers (marked) and are counted once in the SDG totals. ASIN = Amazon Standard Identification Number; EID = Scopus record ID.

#	Title	Author(s)	Book / Publisher	ISBN / ID	SDG
1	Transforming organizational culture with AI: Opportunities and challenges (chapter) [also in Annexure A]	Parida, S.K.; Panda, M.; Panda, B.	*AI and Innovation in HRM (Routledge) · Spi technologies India Pvt Ltd*	Scopus EID 2-s2.0-105014130838	—
2	Biopolymers, hydrogel and their effect on drug development (chapter) [also in Annexure A]	Jena, B.R.; Ratha, B.N.; Pattnaik, G.; Kothakota, N.J.; Puhan, B.; Islam, S.S...	*Smart Ways of Biomaterial Designing, Synthesis and Characterization (CRC Press)*	9781032306780	3.b
3	Rapid Mathematics (Vol I)	K Ravi Kumar	*Self-published (Amazon)*	ASIN B0DX2J3C5N	4.4
4	Rapid Mathematics (Vol II)	K Ravi Kumar	*Self-published (Amazon)*	ASIN B0F7RSXFJ4	4.4
5	How to build AI agents in simple steps	K Ravi Kumar	*Self-published (Amazon)*	ASIN B0F3KM9Y	4.4
6	Python Ka Funda	K Ravi Kumar	*Self-published (Amazon)*	ASIN B0FTLS2Y8H	4.4
7	Beyond the blue: Smart IoT solutions for precision microalgae cultivation (chapter)	Suman P.;Sahoo C.R.;Prasad B.R.	*Nova Science*	Scopus EID 2-s2.0-105004712059	—
8	Autonomous Robots: A Disruptive Technology in the Health Sector (chapter)	Jena B.R.;Koteswararao G.S.N.;Kothakota N.J.;Budha R.R.;Srinivas L.;Rajkumar ...	*Creating Smart Healthcare with Blockchain and Advanced Digital Technologies (Apple Academic Press)*	Scopus EID 2-s2.0-105001260859	3.8
9	Introduction to Banking and Insurance	Dr. Mohanababu Ch	*Oxford Publishers and Distributors*	978-93-6941-100-9	1.4, 4.4
10	Photocatalytic Activity and Potential of NMs in Environmental Remediation (chapter)	Sankara Rao Miditana, A. Ramesh Babu, Saivenkatesh Korlam, Satheesh Ampolu, N...	*Nanotechnology in Environmental Remediation (Bentham Books)*	DOI 10.2174/9789815322941125010014	—
11	Emerging Trends & Consequences of Disruptive Technologies in Financial Forensics (chapter)	Manishi Shriwas	*Interlinking the Financial Forensics and FinTech (BV Patil)*	978-93-48413-80-2	—
12	Fundamentals of Basic Health Care System	Dr.M.vinod kumar	*AkiNik Publications*	DOI 10.22271/ed.book.3305	3.8, 4.4
13	Frameworks and Literature Review on Digital Transformation in Business (chapter)	K Prathiba Malini	*Global Trends and Advances in Business*	978-3-96492-654-8	—
14	Effect of Radiation in Treating the Eye	S Alana Teja	*Self-published (Amazon)*	979-8280823730	3.8

ANNEXURE C: 7 PATENTS PUBLISHED, 2025

Proof for the "7 patents published" figure. All are Indian patent applications assigned to Centurion University of Technology and Management; dates as recorded in the source file.

#	Patent title	Inventor · Department	Application no.	Filed	Published	SDG
1	Deep Learning-Driven Traffic Incident Detection and Road Safety Enhancement System	Ms.Ch.Gunalakshmi · Computer Science & Engg.	202541032802	04/02/2025	05/02/2025	3.6
2	Adaptive IoT-Based Smart Traffic Monitoring and Accident Mitigation System Using Machine Learning	Mirtipati Satish Kumar · Computer Science & Engg.	202541013276	17/02/2025	21/02/2025	3.6
3	Wearable IoT Device for Road User Safety with Machine Learning Based Gesture Recognition	SUDHEER CHOUDARI · Mechanical Engg.	202541017514A	27/02/2025	14/03/2025	3.6
4	Wearable Patch for Real-Time Stress Detection with AI Analytics and Cloud-Based Health Reporting	K Madhava Rao · Electronics & Comm. Engg.	202541098563	13/10/2025	14/11/2025	3.4
5	Modular Architecture with a Green Core: 3D Printing from Recycled Thermocol	SUDHEER CHOUDARI · Mechanical Engg.	202541067800	16/7/2025	25/7/2025	—
6	Inhalable Biodegradable Nanoparticle Composition and Method	Dr K Vijaya Babu · Physics	202511096855	—	12/05/2025	3.b
7	Composition for Latent and Wet Fingerprint Development	Dr Ch Nooka Raju · Radiology	202541100852	—	28/11/2025	—

ANNEXURE D: SCOPUS SDG CLASSIFICATION OF CUTM AP PUBLICATIONS (UP TO 2026)

Proof for the SDG profile chart on page 2, the "185 SDG-mapped publications" and the "12 SDG 17 publications" figures. Source: SDG classification sheet (Scopus) supplied by CUTM AP.

SDG	Goal	Scopus publications
SDG 1	**No poverty**	**2**
SDG 2	Zero hunger	14
SDG 3	**Good health and well-being**	**34**
SDG 4	**Quality education**	**3**
SDG 5	Gender equality	1
SDG 6	Clean water and sanitation	9
SDG 7	Affordable and clean energy	19
SDG 8	Decent work and economic growth	10
SDG 9	Industry, innovation and infrastructure	33
SDG 10	Reduced inequalities	2
SDG 11	Sustainable cities and communities	9
SDG 12	Responsible consumption and production	13
SDG 13	Climate action	5
SDG 14	Life below water	5
SDG 15	Life on land	8
SDG 16	Peace, justice and strong institutions	6
SDG 17	**Partnership for the goals**	**12**
	Total SDG-mapped publications	**185**