

3.7.1 Number of functional MoUs/linkage with institutions/ industries in India and abroad for internship, on-the-job training, project work, student/ faculty exchange and collaborative research during the last five years (10)

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Sl No	Year of signing MoU	Name of the organization with whom MOU/Collaboration being signed	Duration	Purpose of MOU/Collaboration	List of the actual activities under each MOU year-wise	Date of Activity conducted
1	2023	Loretto Tech Systems	1 Year	Research Collaboration and consultancy project	Completed Industry- Consultancy Project	Invoice raised on 20-07-2023
2	2023	NITTE University Centre for Science Education and Research - NUCSER	5 Years	Cooperative Projects in Research and Education.	2023: Students participated in NITTE for Hands-on workshop on Genome analysis, 17-21 July 2023 (4 PhD student participated: Ms. Saranya, Ms Vidhya, Ms. Sharayu and Mr. Nandhakumar) Submitted joint proposals to ICMR: Project title: Development of MALDI TOF MS reference database for rapid detection of antimicrobial resistant ESKAPE pathogen (ICMR Proposal Id: IIRPIG-2023-0000964, Submitted on 30 July 2023) Submitted joint proposals to DBT: Project title: Phandage: Development of novel lytic phage impregnated bandage for treating wound infection (Project ID: BT/PR50629/MED/32/987/2023) Presentation submitted on 06.10.2023.	17-21 July 2023 30th July 2023 06th June 2023
3	2023	Tamkang University, Taiwan	5 Years	Semester Abroad Program, Student Exchange Program	Two students completed internships	1 March 2023 to 23 June 2023.
4	2023	Efftronics Systems Pvt Ltd, Mangalagiri	5 Years	Skill development programs, guest lectures, faculty development Programs, research and consultancy, innovation and incubation	2023: Mr. Ramakrishna, MD & CEO of Efftronics visited SRMAP on 27th sept 2023 and discussed research Collaboration on "Fail Safe Systems" for Indian Railways. A team of faculty led by Dr. Udaya Sankar visited the company on 25th Oct 2023. Faculty development programs and Project Proposal themes were discussed.	27th sept 2023
5	2023	University of Kentucky, USA	5 Years	1. Transfer Program 2. Knowledge sharing	Organised workshop on "How interactions between climate and land use/land cover changes can affect water resources"	June 2023
6	2023	University of The West of Scotland, UK	5 Years	Semester Abroad Program	SAP Opportunities explored in Spring 2024	July 2023
7	2023	Southern Cross University (SCU)	4 Years	To promote cooperation in the teaching learning and research activities	2023: Working on a draft project proposal Title: Quantifying pollutant loads and pathways in the Ganges River system"	30th April 2023


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8	2023	Shirak State University, Armenia	3 Years	Semester Abroad Program/student or faculty exchange	SAP Opportunities explored for Spring 2024	Jul-23
9	2023	University of Notre Dame, USA	5 Years	Semester Abroad Program	SAP Opportunities explored for Spring 2024	July 2023
10	2023	Andhra Pradesh Space Applications Centre (APSAC)	2 Years	Exchange of Knowledge, Joint Research Programs, Research Collaboration	2023: A Webinar series was conducted on "Democratization of geographical information systems education perspectives in India" dated 25th Aug 2023.	25th Aug 2023.
11	2023	OLA Cell Technologies Private Limited	2 Years	To develop Cathode materials for E Vehicle and Development of Battery Management System.	Project proposal Submitted with Title: "Searching for anode materials (ex: Graphite/Silicon heterostructures) and screening of binders for the respective anode materials for LiBs"	02-July-23
12	2023	Indian Institute of Technology Guwahati, India	5 Years	Furthering cooperation in education and R&D activities, promote academic collaborations and participate in various academic endeavours.	Year 2022-23: Joint supervision of two phd students of SRM-AP. Published one Research Article in Scopus	01-09-2022 to 30-09-2022 01-June-2023
13	2023	Instituto Politecnico De Braganca, Portugal	3 Years	Semester Abroad Program	SAP Opportunitites explored in Spring 2024	Jul-23
14	2023	Holon Institute of Technology, Israel	5 Years	Student Exchange and Faculty Exchange Program	SAP Opportunities explored in Spring 2024	Jul-23
15	2023	SRM Technologies Pvt Ltd	2 Years	Research Collaboration and Internships	2023: Students completed internship during June to August 2023	22nd June 2023 to 5th August 2023
16	2023	University of Waikato, New Zealand	5 Years	Semester Abroad Program, Transfer Program	Five students from Civil Engineering department shortlisted for virtual research internship on Structural analysis on composite structures of cold-formed steel and wood panel systems from 6th Feb 2023 to 6th May 2023. One student completed the internship	6 Feb 2023 to 6 May 2023
17	2023	Universiti Teknologi Mara, Malaysia	3 Years	Faculty exchange/ Semester Abroad Program / Global Immersion	3 students of Mechanical Engineering department did a virtual research internship on Simulation of Manufacturing Process (Forming/Welding/Metal Additive Manufacturing) from 1st Nov 2022 to 30th April 2023.	1 Nov 2022 to 30 April 2023
18	2023	Ming Chi University of Technology, Taiwan	5 Years	Exchange of faculty members and students for study and research. Promote and joint research activities and publications, transfer Program	1) Three Students went for summer school in 2023, Exchange and research opportunities were explored Program Dates : 3-07-2023 to 12-07-2023 2) One Research Article Published in IEEE Access	03 July 2023 to 12 July 2023
19	2022	Ureka Education Group	3 Years	Research Collaboration	13 Students hassuccess fully completed Global Immersion Programme in 2022	12-August-2023
20	2022	Monash University, Australia	5 Years	Semester Abroad Program	SAP Opportunities explored in Spring 2024	July 2023


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21	2022	Cheers Wisdom Pvt Ltd	2 months	Designing a technical architecture for the company product	Consultancy project completed for "Designing technical architecture for Emotional Intelligence"	12th December 2022
22	2022	Western Michigan University, USA	5 Years	Semester Abroad Program	SAP Opportunities explored in Spring 2023, 2024	Sept 2022, July 2023
23	2022	Universiti Teknologi Petronas, Malaysia	5 Years	Semester Abroad Program, Transfer Program, Global Immersion	UTP Student Familiarization Programme has been conducted at UTP Malaysia in the year 2022, 2 cohort of 26 and 21 students (summer), 1 cohort of 29 students (winter) Aadigyan - Indian Immersion Programme - 2022, 10 students of UTP has participated and came to SRM AP UTP Student Familiarization Programme in the year 2023, a cohort of 17 students participated (Winter) SAP Opportunities explored in Spring 2024, Transfer programs promoted since 2022	19th June 2022 to 25th June 2022 26th June 2022 to 2nd July 2022 17th July 2022 to 27th July 2022 19th Jan 2023 to 28th Jan 2023 Sept 2022, July 2023
24	2022	Universitas Muhammadiyah Sukabumi, Indonesia	3 Years	Student or faculty exchange Global Immersion Program, Student or faculty exchange	9 students from SRM AP has been participated in the UMMI Immersion Programme for the year 2023(winter)	19th Jan 2023 to 28th Jan 2023
25	2022	Rennes School of Business, France	2 Years	Transfer Program	One student enrolled for Transfer Program	20-Jul-23
26	2022	Stanford India Private Limited and Hatchlab Research Centre	6 months	Stanford Seed Spark is a five month long online entrepreneurship program that provides practical tools to help aspiring/early-stage founders to refine their business or business idea. Spark is an initiative of the Stanford Graduate School of Business and Stanford Seed.	2022: Startup EatX Inc from Hatchlab Research Centre participated in the Seed Spark online entrepreneurship program starting from September 01st, 2022 to December 31st 2022. 2023: startup "Rama Raghava Consumables Pvt Ltd" offered admission int to the Seed Spark Online Entrepreneurship Program offered by Stanford Seed (Seed Spark 07 South Asia, June-Nov 2023 Cohort).	2022: September 01st, 2022 to December 31st 2022. 2023: June 2023 to Nov 2023
27	2022	Taurean Surgical, Hyderabad	10 Years	Deliver webinars and internship to students, provide joint research projects to B.Tech/M.Tech students and recruits pass-out students.	2022: Research Consultancy Project Proposal Submitted with Title " Image-Guided Robotic Surgery" on 5th Sept 2022.	5th Sept 2022
28	2022	Infosys Spring Board	5 Years	Self learning digital platform comprising of 13000 plus course, industry employability skill and different certificate and internship opportunity	2023: Infosys Ltd., in collaboration with the Directorate of CR & CS department, conducted an orientation session by the name Infosys Springboard for Free Digital self learning courses/certificates/internships.	01-08-2022
29	2022	Waman Hari Pethe & Sons	1 Year	Research Collaboration and consultancy project	Completed a Industry- Consultancy Project	09th June 2022

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30	2022	The Hebrew University of Jerusalem, Israel	3 Years	Semester Abroad Program	1. SAP Opportunities explored in Spring 2024 2. One Research Article Published in National Institutes of Health	July 2023 October- 2023
31	2022	University College Dublin, Ireland	3 Years	Semester Abroad Program	Published 3 collaborative research articles in Applied Physics, Innovative Process and Materials in Additive Manufacturing, Photonics, Scientific Reports.	June- 2022 May- 2023 December- 2023
32	2022	Speed Engineering Solutions Pvt Ltd	10 Years	Research Collaboration and Provide Internships to Students	Conducted a webinar for students titled: "Product Design and Development"	23-April-2022
33	2022	State University of New York - Oswego, USA	5 Years	Transfer Program	1. Two Research Article Published in Biomass, Biofuels, Bio chemicals 2. Transfer programs promoted since 2022	Sept 2022
34	2022	Ziroh Labs pvt ltd, Bangalore	3 Years	Research and Development on cryptography, networks and distributed systems.	2023: Ziroh Labs has Conducted a webinar on "How are you exposing your information online".	23-April-2022
35	2022	NIRT Renewable Energy Private Limited	5 Years	Collaborative research and consultancy work	Completed a consultancy project	22- December-2022
36	2022	Universidad Austral, Argentina	5 Years	Semester Abroad Program , Student or faculty exchange	SAP Opportunites explored in Spring 2023, 2024	July 2023
37	2022	Cyprus West University, Cyprus	5 Years	Exchange of faculty/students/research activities	SAP Opportunites explored in Spring 2023	Feb-May 2023
38	2021	Titan Company Limited	1 Year	Research Collaboration and consultancy project	Completed a industry- consultancy Project and obtained 1 patent	13-09-2021 Invoice raised 20-09-2022 Invoice raised Published a patent on 28 May 2021 and same has been granted on 15 Sept 2023
39	2021	CSIR- Indian Institute of Chemical Technology- Hyderabad	10 Years	Teaching & Research Collaboration, Mutual Project Proposals & Faculty-Student & Scientists Exchange	2021: Samples analysis and characterization 2022: Samples analysis and characterization 2023: Samples analysis and characterization	22-12-2021 25-02-2022 19-07-2022 12-04-2023
40	2021	Anadolu University ,Turkey	5 Years	Semester Abroad Program , Student or faculty exchange	SAP Opportunites explored in Spring 2023, 2024	July 2023
41	2021	Halic University ,Turkey	5 Years	Semester Abroad Program , Student or faculty exchange	SAP Opportunites explored in Spring 2023, 2024	July 2023
42	2021	James Cook University ,Singapore	3 Years	Semester Abroad Program	SAP Opportunites explored in Spring 2023, 2024	July 2023


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43	2021	Indian Institute of Technology, Bhilai	2 Years	To pursue DST (Indo-Israel Joint Research Co-operation - IJRC) sponsored project entitled "A Halide Perovskite based Photoanode for Oxygen Evolution Reaction Using a molecular Diode in a Hybrid Nanometer Scale SCALE PROTECTION LAYER.	Year 2021: Online Zoom meeting with the PIs and the international collaborator Dr. Eran, Ben-guaran university of Negev, Israel Year 2022: a) Room-temperature cost-effective in-situ grown MAPbBr ₃ crystals and their characterization towards optoelectronic devices b) Asymmetrical Electrical Performance across Different Planes of Solution-Grown MAPbBr ₃ Crystals of mm Dimensions c) Effect of formamidineium (FA) ions on mixed 'A'-site based bromide perovskite (APbBr ₃) thin films	13th Sept 2021 28th June 2022 13th Oct 2022 21st Oct 2022
44	2021	The Regents of University of California, On behalf of its Davis Campus (UC Davis),USA	4 Years	Semester Abroad Program	One student completed Semester Abroad Program in the year - 2022	28 Mar to 18 June 2022
45	2020	Flinders University	5 Years	Academic and research collaboration	Published 4 collaborative research articles in Journal of Power sources, Journal of Parallel and Distributed Computing, Applied Surface Science & Solar Energy.	30 October 2020 December 2020 February 2023 October 2023
46	2020	National Tsing Hua University , Taiwan	5 Years	Exchange of students, Joint research activities and exchange of publications	1. SAP Opportunities explored in Spring 2024 2. Published book chapter	7/1/2023 2. 2024
47	2020	Illinois Institute of Technology, Chicago, USA	3 Years	Semester Abroad Program, Transfer Program	SAP Opportunities explored in Spring 2023, 2024	Sept 2022, July 2023
48	2020	Asia University, Taiwan	5 Years	Student/ faculty exchange , Semester Abroad Program	CSE Student Completed research internship on Cloud Computing, Big Data, Artificial Intelligence from 1st March 2023 to 30th June 2023.	1 March 2023 to 30 June 2023
49	2020	University of Wisconsin Madison, USA	3 Years	Semester Abroad Program	2. 1 student completed SAP in the year 2022, SAP explored in Spring 2023, 2024 1. One Research Article Published in Bioresource Technology	25 Jan to 15 May 2022 Aug 2023
50	2020	Amara Raja Batteries Limited	5 Years	Joint Research & Development of low cost electrode compositions, new advanced materials and other Li-Ion battery technology projects and also Prototype cells of other advanced battery technologies.	Year 2021: Method development for industrial scale production of materials Year 2022: Development of Mn and Fe based cathodes Year 2023: Recycling method development for LIBs	29th April 2022 14th July 2023
51	2019	KPIT Technologies Ltd.	1 Year	To have SRM University as an associate partner for the KPIT Sparkle 2020 India event.	Year 2020: KPIT Sparkle event held in Pune between 29th Feb 2020 to 1st March 2020. Five students from B.Tech ECE & CSE Participated.	29th Feb 2020 to 1st March 2020

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52	2019	College of Engineering - University of California - Berkeley , USA	3 Years	Semester Abroad Program	4 students completed Semester Abroad Program (SAP) in the year 2022 , SAP explored in Spring 2023 & 2024	14 Jan to 10 June 2022
53	2019	Andhra Pradesh State Skill Development Corporation(APSSDC)	3 Years	To Provide the ICT Infrastructure to select academic Institutions for skilling of Students.	2021: 168 Students from B.Tech completed summer internship at AP State Skill Development Corporation during Summer Term of 2022. 2023: Embedded system internship from 19-06-2023 to 14-08-2023 & 30 number of students Participated.	June to July 2022 19 June 2023 to 14 Aug 2023
54	2019	Institut Pasteur, Paris	5 Years	Visiting research	Dr. Manjunatha Thondamal visited the Timothy Wai Laboratory at Pastuer Institute and spent 5months in the lab for collaboration work.	Sept 2019 to January 2020
55	2019	Electronics corporation of India Limited, Computer Education Division	2 Years	Providing training to the students of B.Tech in CSE, ECE & EEE. The students will be allowed to choose the Projects from the list of Courses Provided by ECIL- CED.	2021: Students undergone for internships	January and February 2021
56	2018	Whistle Drive, Hyderabad	3 Years	To provide internships (2 mths & 6 mths), Project based on- Job Training to the students of B. Tech in CSE.	2019: 6 Students have undergone for internship during May to June 2019	May to June 2019

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