



SMU SIKKIM
MANIPAL
UNIVERSITY

Established under Govt. of Sikkim, Act 9 of 1985, recognised under 2(f) of the UGC Act, 1956



SDG 9

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



SDG 9: Industry, Innovation & Infrastructure

One of the prime objectives of Sikkim Manipal University is to promote technology through its technical campus that provides wide range of engineering & allied programs in Majitar Campus.

SMU encourage student innovations through Technology Business Incubator (TBI). Start-up ideas are nurtured and developed at the SMU Atal Incubation Centre. Atal Incubation Centre (AIC) is an initiative of Atal Innovation Mission (AIM), NITI Aayog to promote a culture of innovation and entrepreneurship. The incubation centre admits young entrepreneurs with innovative ideas that have market potential and guides them to become employers rather than being employees. This incubator envisions fostering an entrepreneur-friendly culture around academics & research through its state-of-the-art incubation centre, seed funding for entrepreneurs and a dedicated mentoring program.

AIC-SMU Technology Business Incubation Foundation is an incubator set up as an SPV (Special Purpose Vehicle) at Sikkim Manipal University, which is the first Atal Incubation Center in North East India. The incubator is set up under an MOU between SMU and NITI AAYOG as an autonomous entity and registered under the Ministry of Corporate Affairs, Government of India (as a Section 8 Company under Companies Act 2013).

The incubator has Vice-Chancellor of SMU, Registrar, SMU and Director, SMIT on its Board of Directors and members from NITI AAYOG and various Government and Corporate entities on its Board of advisor.

As SMU grows in its strength, we are committed to train and nurture not only our students but also to uplift the entire North East India and empower the youths of this region by honing their skills from being employees to becoming employers and help the country achieve the full potentials of AtmaNirbhar India, thereby creating employment and wealth creation in the region.

The main function of this center is to motivate and nurture young entrepreneurs by providing them the following:

- **Infrastructural support i.e. office space, meeting room**
- **Networking**
- **Funding (Including seed funds and VC/Investors connect)**
- **IPR**
- **Other Secretarial Services (Registration of company/ Compliances etc)**

AIC-SMUTBI helps students and youths of the region with strong entrepreneurial abilities by identifying them and supporting them with:

Incubation of early-stage entrepreneurial ventures based on technology and innovation. Create physical infrastructure and support systems necessary for business incubation activities.

Facilitate networking with professional resources, which include mentors, experts, consultants and advisors for the incubatee companies.

Identify technologies/innovations which have the potential for commercial ventures. Promote and foster the spirit of entrepreneurship. Carry out activities that facilitate knowledge creation, innovation and entrepreneurship activities

Activities at AIC-SMUTBI:

- **Some major activities that are being planned regularly are:**
- **Interaction with students to motivate and nurture them as entrepreneurs.**
- **Sensitize them of the resources that will be provided as support at SMIT/SMU.**
- **Organize workshops with more interaction with experts in the field.**
- **Organize Hackathons and Challenges of Technical designs and encourage them to convert them to commercially viable products.**
- **Invite some of our alumni who have started successful ventures and motivate our students.**

Some of the key events organized/Hosted by AIC-SMUTBI are:

1. Defence Innovation Startup Challenge by Ministry of Defence

2. Hackathon of Sikkim Cluster organized by BIRAC and IKP, Bangalore

Sikkim Manipal University

3 SDG 9: Industry, Innovation & Infrastructure

3.VFT organized by Wadhvani Foundation supported by Bill and Melinda Gates Foundation and AIM, NITI AAYOG

4.Fund Quest – An Investment summit with 50+ VCs participating in it for our startups to raise capital.

SMUTBI Website: <https://www.smutbi.com/>

Facilities at SMUTBI: <https://www.youtube.com/watch?v=-nSyHX0JEkg>

The following are the spin off that was established at least 3 years ago before 2024 and still active:

Sl No.	Name of Venture/Startup	DPIIT/Start up India Registration No.	Year of recognition by DPIIT/startup India (2020-21/ 2021-22/ 2022-23/ 2023-24)
1	Aaharan Edusmart Pvt. Ltd.	DIPP51906	01.01.2020
2	Adventure Zone	Not Available	Not Available
3	AUGTRAVELER	DIPP16547	16.02.2018
4	Agri J	DIPP90777	08.12.2021
5	AIS Bilingual Vitae (OPC) Pvt. Ltd.	DIPP80027	17.05.2021
6	Akumen AI (OPC) Pvt. Ltd.	DIPP90244	30.11.2021
7	Asal (OPC) Pvt. Ltd.	Not Available	Not Available
8	Association for Research, Innovation and Development (ARID)	Not Available	Not Available
9	ATBC Technology PVT. LTD.	DIPP102902	16.06.2022
10	Avidia Labs	DIPP51404	26.12.2024
11	Awpara Technologies	DIPP112714	26.10.2022
12	Baasthan	Not Available	Not Available



13	Bee Gypsy	Not Available	Not Available
14	Bisons Engineers (Proprietor)	Not Available	Not Available
15	Cas Collective LLP	DIPP92842	19.01.2022
16	Cropzo	Not Available	Not Available
17	CustKart Merchandise Pvt. Ltd.	Not Available	Not Available
18	Dash	Not Available	Not Available
19	Delivative services Pvt. Ltd.	DIPP86859	22.09.2021
20	DNR Foods Pvt. Ltd.	DIPP98178	02.04.2022
21	DreamHives PVT. LTD.	DIPP85916	06.09.2021
22	Earth & Home	Not Available	Not Available
23	Earthier (Soten Group)	Not Available	Not Available
24	ENCAMP TOURISM PRIVATE LIMITED	DIPP60176	11.06.2020
25	Efforbe Beauty	DIPP93976	04.02.2022
26	Ethnographic art private limited	DIPP87018	24.09.2021
27	EVOLOG Pvt. Ltd.	DIPP114164	15.11.2022
28	Farmeasy Technologies Pvt Ltd	DIPP52385	02.01.202.0
29	Fin Soft Lab Pvt. Ltd.	Not Available	Not Available
30	Gladiolus Language Nectar Pvt. ltd.	DIPP102274	07.06.2022
31	GoldenBac Motor Pvt. Ltd.	DIPP101961	02.06.2022
32	Good To Take	Not Available	Not Available
33	HOOFIT	Not Available	Not Available
34	Imphalvery Pvt. Ltd.	DIPP90758	08.12.2021
35	Interioverse Design Pvt. Ltd.	DIPP129020	13.04.2023
36	Mathematics.buzz	Not Available	Not Available
37	Mauka Education Pvt Ltd.	DIPP75395	19.02.2021
38	MeMeraki Retail and Tech Pvt Ltd	DIPP99196	19.04.2022
39	Money Mileage Investment Pvt Ltd.	DIPP83064	13.07.2021
40	My Kangla Tours & Travels Pvt. Ltd.	DIPP33582	06.04.2018
41	Naubatasunya Pvt. Ltd.	DIPP78846	27.04.2021
42	Nibiaa Devices Pvt. Ltd.	DIPP72543	03.12.2020
43	Neso Fugensus Pvt. Ltd.	DIPP89720	17.11.2021
44	O2 Himalaya	DIPP111994	13.10.2022
45	O8 Blue Sky Logistics Pvt. Ltd.	DIPP74367	04.02.21
46	Opzen Pvt. Ltd.	DIPP132116	18.05.2023
47	Orgreen Market	Not Available	Not Available
48	Pandim Online solution Pvt. Ltd.	Not Available	Not Available
49	peAR Technologies (DVDP Technologies Private Limited)	DIPP46950	10.10.2019



50	Purpur Media Pvt. Ltd	DIPP163249	18.04.2024
51	QuantumQuest Pvt. Ltd.	Not Available	Not Available
52	Rabdentse Systems Pvt. Ltd.	Not Available	Not Available
53	Ripra Clothing Pvt. Ltd.	Not Available	Not Available
54	Sai Kunti Pvt. Ltd.	Not Available	Not Available
55	SunMoon Organics Pvt. Ltd.	Not Available	Not Available
56	Syang's	DIPP129088	14.04.2023
57	Tagbudy	Not Available	Not Available
58	Talentverse	DIPP118477	04.01.2023
59	Taste in Lawaray	DIPP136577	22.06.2023
60	The Chakras Farm Pvt. Ltd	DIPP73857	Not Available
61	Top View Infolabs (OUR GUEST)	DIPP5080	14.06.2017
62	TheFewCreators	Not Available	Not Available
63	Turbit Mixed Reality Services Pvt. Ltd.	DIPP137924	03.07.2023
64	Turuk garden LLP	Not Available	Not Available
65	Urgehlep Pvt. Ltd.	DIPP93916	04.02.2022
66	Urjjahev Mobility Private Limited	DIPP97973	30.03.2022
67	Wari	Not Available	Not Available
68	WhitePebbles Construction Tech PVT. LTD.	DIPP82422	03.07.2021
69	Purpur Media Pvt. Ltd	DIPP163249	18.04.2024
70	Awpara Technologies	DIPP112714	13.10.2021
71	Aveti Learning	DIPP51906	02.11.2018
72	MeMeraki Retail and Tech Pvt Ltd	DIPP99196	19.04.2022
73	peAR Technologies (DVDP Technologies Private Limited)	DIPP46950	10.10.2019
74	Turbit Mixed Reality Services Pvt. Ltd.	DIPP137924	03.07.2023
75	Agspert Technologies Pvt. Ltd	DIPP61127	08.06.2020
76	QuantumQuest Pvt. Ltd.	DIPP138484	11.07.2023
77	Talentverse	DIPP118477	04.01.2023
78	MeroDarjeeling Organics Pvt. Ltd.	DIPP156980	14.02.2024
79	Interioverse Design Pvt. Ltd.	DIPP129020	13.04.2023
80	Opzen Pvt. Ltd.	DIPP132116	18.05.2023
81	JUJU RIDE	DIPP166218	21.05.2024
82	GREEN BOTECH ECOSOLUTIONS PVT LTD	DIPP10012	06.10.2017
83	Sharolyn EcoEmpower	Not Available	Not Available
84	JOME FOODS PRIVATE LIMITED	DIPP123274	04.03.2021
85	Eco Farm	Not Available	Not Available



86	Crafted Fibers	130/51/RB	Not Available
87	SS Bamboowala Pvt. Ltd.	DIPP33879	05.03.2019
88	Farameasy Technologies Pvt Ltd	DIPP52385	02.01.2020

Innovation Grant from Govt. Organisation in 2024

Name of Government organisation from which grant is received	Name of the Program or Scheme	Amount of Grant received (in lacs)
MEITY	Samriddhi	30lacs
Govt. of Mizoram	RAHBI	10 lacs
Numaligarh Refinery Limited	NRL	50 lacs
Startup India	SISFS	15 lacs
Department of Science & Technology	Nidhi Prayas	6 lacs
Ministry of Agriculture and Farmers' Welfare	RKVY Raftaar	3 lacs

Funds received by spinoff from VC in Financial year 2024

Name of start ups	DPIIT No.	Amount received in lacs	Organisation Name
Green Biotech Pvt. Ltd	DIPP10012	4.25 lacs	HDFC
Jome Foods Pvt. Ltd.	DIPP123274	4.25 lacs	HDFC
Maity Ghar	Not Availaible	4.25 lacs	HDFC
Crafted Fibers	130/51/RB	4.25 lacs	HDFC
SS Bamboowala Pvt. Ltd.	DIPP33879	4.25 lacs	HDFC
Eco far LLP	Not Availaible	4.25 lacs	HDFC
Farameasy Pvt. Ltd	DIPP52385	4.25 lacs	HDFC
Green Biotech Pvt. Ltd	DIPP10012	30 lacs	NEDFI
Syang's Living food & Beverage Pvt. Ltd.	DIPP129088	15 lacs	Private Investor
Evolog Pvt. Ltd.	DIPP114164	35 lacs	Private Investor
Farameasy Pvt. Ltd	DIPP52385	20 lacs	NRL
Akumen Artificial Intelligence Pvt. Ltd.	DIPP80027	1 cr	NEDFI
Opzen Pvt. Ltd.	DIPP132116	32.05 lacs	Private Investor



Mauka Education Pvt Ltd.	DIPP75395	31 lacs	Angel Funding
Interioverse Design Pvt ltd	DIPP129020	15 lacs	Angel Funding

FDI investment to startup in 2024

Name of start ups	DPIIT No.	FDI investment received	Organization Name
Agspert Technologies Pvt. Ltd	DIPP61127	25 Lacs	INTERNATIONAL FUND FOR AGROECOLOGY DEVELOPMENT

Ventures/startups grown to turnover of 50 lacs in 2024

Name of Start-up	DPIIT No.	Company's Turnover
Green Biotech Ecosolutions Pvt. Ltd.	DIPP10012	72lacs
EVOLOG PVT. LTD	DIPP114164	90 lacs
Topview Infolabs Pvt. Ltd.	DIPP5080	2.07cr
My Kangla Pvt Ltd.	DIPP33582	1.08cr
NE Organics Pvt. Ltd.	DIPP89720	72 lacs
Interioverse Designs Pvt. Ltd	DIPP129020	50.2 Lacs
Jome Foods Pvt. Ltd	DIPP123274	90 lacs

INCUBATOR INFRASTRUCTURE



**TMA Pai Board Room –
Capacity 30 Pax**



**Ideation Hub (Meeting
Room) – Capacity 15 Pax**



**The Habitat (Coworking
Space) with 20 Seats**



Makerspace





**Social Circle: Lounge-cum-
Event area**



**Business Center for startup
Offices**

Innovation-Entrepreneurship Ecosystem Partners



MoU has been signed:

TOTAL NO. OF INDUSTRIES / CORPORATE PARTNERS		
Sl no	Name of Organisation	Date of Signing
1	Mycrave Consultancy and Services	09.05.2020
2	Modern Incubator	02.11.2020
3	Samunnati Foundation	02.02.2021
4	Arthayan	11.02.2021
5	Raksha Agarwal and Associates	23.02.2021
6	Treelife Ventures	12.03.2021
7	Syndicap Venture Partners	06.05.2021
8	Aneev Advisory	23.06.2021
9	Lemon Ideas Innovation Pvt. Ltd.	14.06.2021
10	KIIT-TBI	09.07.2021



11	HDFC Bank Ltd.	09.07.2021
12	S.B Gokhale and Company	09.07.2021
13	Entrepreneurship Cell IIT Kharagpur	27.08.2021
14	Headstart Network Foundation	31.10.2021
15	Startup Reseau	27.01.2022
16	Standford India Pvt. Ltd.	04.02.2022
17	Numaligarh Refinery Limited	25.03.2022
18	NSRCEL IIM Bangalore	28.03.2022
19	Lets Venture Technologies	24.09.2022
20	NSE Academy	28.02.2020
21	Sunrator Technologies LLP	12.01.2018
22	Institute of Company Secretaries of India	18.11.2020
23	NHPC	27.02.2021

List of Patent Published & Granted in 2023- 2024:

Sl. No.	Patent Application No.	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date	Patent Published Date / Granted Date	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	202341009618	Dr. Saumya Das	DUAL BAND HELMET INTEGRATED STACKED ANTENNA FOR WIRELESS COMMUNICATION	Dr. Saumya Das	14-02-2023	24-02-2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr1.pdf
2	202321024432	Dr.Samrat Kumar Mukherjee	ANALYSIS OF GROWTH AND DEVELOPMENT OF " MAKE IN INDIA" TOWARDS ENERGY SECTOR	Dr.Samrat Kumar Mukherjee	31-03-2023	05-05-2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr2.pdf
3	202331028981	AJEYA JHA, SANGEE TA JHA	DEEP LEARNING BASED PLANT GROWTH AND HARVESTING PREDICTION DEVICE AND METHOD THEREOF	AJEYA JHA, SANGEE TA JHA	21-04-2023	28-04-2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr3.pdf



4	20234107 6873	DR. S. VISALAK SHI	SECURE IOT FRAMEWORK FOR REMOTE HEALTHCARE SERVICES USING MACHINE LEARNING AUTHENTICATION AND AUTHORIZATION	DR. S. VISALA KSHI	10-11- 2023	15-12- 2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr4.pdf
5	389509- 001	SANJEE V KUMAR	HAND OPERATED FLEXIBLE LOAD PULLER	SANJEE V KUMAR	03-07- 2023	11-10- 2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr5.pdf
6	20203103 3598	Dr. Ranjit Panigra hi/ Dr. Arun Kumar Singh	IOT BASED MEDICAL CONTAINER MANAGEMENT SYSTEM	Dr. Ranjit Panigra hi/ Dr. Arun Kumar Singh	06-08- 2020	14-12- 2023	https://smu.edu.in/content/dam/manipal/smu/NIRF/2024/Sr6.pdf

Research income from industry and commerce by subject area: Medicine in 2023-24

Sl No.	Name of the Project	Name of the Funding agency	Name of the Principal Investigator/ Co Investigator (if applicable)	Department	Funds provided (INR in lakhs)
1	ENRICH-AF STUDY	POPULATION HEALTH RESEARCH INSTITUTE	DR BIDITA KHANDELWAL	Medicine	0.86

Research income from industry and commerce by subject area: STEM in 2023-24

Sl No.	Name of the Project	Name of the Funding agency	Name of the Principal Investigator/ Co Investigator (if applicable)	Department	Funds provided (INR in lakhs)
21	HDFC Parivartan CSR grant	HDFC	Dr CT Singh	Computer Science & Engineering	35



Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (INR in Lakhs)
TAMAL GHOSH & JYOTIPRASANNA SENGUPTA	TESTING OF MIX DESIGN M20,M25,M30 & M35 GRADE CONCRETE	BINOD KUMAR AGARWAL	1.46
TAMAL GHOSH & JYOTIPRASANNA SENGUPTA	MIX DESIGN OF M35 GRADE CONCRETE TEST DONE AT SMIT BY CIVIL ENGG FACULTY.	MUNGIPA TRADE LINKS PVT LTD	0.25
GURU PRASAD SHARMA & JYOTIPRASANNA SENGUPTA	TESTING OF CONCRETE CUBES AND STEEL	SIBIN GROUP	0.24
GURU PRASAD SHARMA	CONSULTANCY SERVICES FOR TESTING OF CONCRETE	HOSANNA	0.25
GURU PRASAD SHARMA	CONSULTANCY SERVICES FOR TESTING OF CONCRETE	B R DRILL PROJECTS	0.14
DR. PARTHA SARATHI NAYEK,MR.RAJDEEP ROY & MS. PRERNA GHALEY	CHECKING AND VETTING OF DESIGN AND VETTING OF DESIGN AND DRAWING OF 180FEET SPAN BAILY BRIDGER OVER TEESTA BRIDGE.	DR. SWASTIKA CHAKRABORTY,PROFESSOR NARULA INSTITUTE OF TECHNOLOGY	0.06
SAJAL SARKAR	TESTING OF COMPRESSIVE STRENGTH OF CONCRETE CUBES	SM INFRASTRUCTURE PVT.LTD	0.03
TAMAL GHOSH	CONSULTANCEY (MIX DESIGN OF CONCRETE (M20, M25, M30, M35)	SHANKER AGARWAL AND ASSOCIATES	1.00
SANDIP KUMAR GUPTA	GROUND RESTIVITY TEST OF DAM/SPILL WAY &GROUND RESTIVITY TEST OF SFT GOC, DC GOC AND SFT OUTLET	RITHWIK HIPL JOINT VENTURE	0.21



GURU PRASAD SHARMA	CHECKING AND VETTING OF DESIGN AND VETTING OF DESIGN AND DRAWING OF 115 MTR LONG, 1.2 FOOT WIDE SUSPENSION BRIDGE AT BALUTAR IN NHPC.	JAIPRAKASH ASSOCIATES LIMITED	0.72
GURU PRASAD SHARMA	CHECKING AND VETTING OF DESIGN AND VETTING OF DESIGN AND DRAWING OF 180 FEET SPAN BAILY BRIDGER OVER TEESTA BRIDGE.	JAI PRAKASH ASSOCIATES LIMITED	0.72



RECENT TRENDS IN ECE

07 Sep 2024:

1	TITLE OF EVENT:	RECENT TRENDS IN ECE
2	ORGANIZED BY (DEPT/(CLUB/BODY ETC):	ECE
3	UNDER THE BANNER OF(DEPT./OFFICE/CELL ETC):	ECSA
4	COLLABORATION WITH:	SRF
5	STUDENT EVENT: YES / NO	YES
6	EXTERNALLY FUNDED: YES / NO	NO
7	IF EXTERNALLY FUNDED, THEN NAME OF FUNDING AGENCY	NA



8	NATURE: INTERNAL PARTICIPANTS / EXTERNAL PARTICIPANTS / BOTH	BOTH
9	NO. OF PARTICIPANTS:	45
9A	INTERNAL:	43
9B	EXTERNAL	2
10	MODE: ONLINE / OFFLINE	ONLINE
10A	IF ONLINE PROVIDE LINK	LINK
11A	DATE FROM	07/09/2024
11B	DATE TO:	07/09/2024
12	COORDINATOR:	Student Coordinator: Anirudh Jaiswal Faculty Coordinator:



		Dr. A.K.Singh/Dr.S.N.Sur/Dr. J.Biswas
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RESOURCE PERSON(S): Ms. SoumyaSree Bera

The event titled "Recent Trends in ECE" was a joint seminar organized by both the ECSA Council as a part of alumni talk and Student Research Forum, SMIT, SMU as a part of Research activity scheduled for the month of August. The event was hosted in the Seminar Hall. The event started at 5:00 PM with the introduction part delivered by Rishikesh Kumar of VII Semester ECE Department, followed by HOD, ECE, Dr. Bikash Sharma sir sharing about his opinion regarding the same. Ms. Soumyasree Bera mam was the keynote speaker for the event. She shared her insights on the topic with her primary focus on the evolution of the communication systems from 2G to 6G and beyond. She also shared a brief details on the networking protocol and IOT technology. Finally, the event was concluded at 06:00 PM by the vote of thanks delivered by Anirudh Jaiswal.



IGNITE

02/05/2024: A gathering led to empower entrepreneurs to recognise, discover, and network with the startup community was held at AIC-SMU TBI. With the goal of igniting the spark of innovation, collaboration, and growth, IGNITE was graced by the presence of Mr. Niranjana Demanna, VP, CSR HDFC Bank, Mr. Utkarsh Mishra, Global Innovation, Hero MotoCorp, and Mr. Gulshan Purswani, Delivery Head, Bosch Global Software Technologies and Board of Directors of AIC-SMUTBI.

Seven innovative startups, distinguished by their creative approaches to driving positive change and fostering sustainable development, showcased a significant impact on the region's growth and socio-economic landscape. These startups further received the grant included Crafted Fibers., Green Biotech Ecosolutions Pvt. Ltd., Farneasy Technologies Pvt. Ltd, Eco Far, Jome Foods Pvt. Ltd, Sharolyn Ecoempower (Maity Ghar), and SS Bamboowala Pvt. Ltd.

Concurrently, business, innovation, and technology topics were explored during Bootcamp workshop, attended by 30+ startups across the North East and Darjeeling Hills region. Mr. Gulshan Purswani, from Bosch Global Software Technologies, mentor at AIC-SMUTBI, aimed to refine startup business models and provide essential entrepreneurial skills. Through active group discussions and

participation, the workshops emphasized practical skills and strategic insights, encouraging startups to develop measurable supply-side goals alongside building business funnels.

