

Annexure-I : List of projects for Summer Internship Program 2023 at NIT Meghalaya

PROJECT CODE	DEPARTMENT	PROJECT SUPERVISOR	PROJECT TITLE	NO. OF SEATS AVAILABLE
NITM/SI/2023/01	EC	Dr. Prabir Saha	Neuromorphic Computing	2
NITM/SI/2023/02	EC	Dr. Prabir Saha	Spiral Neural Network	2
NITM/SI/2023/03	EC	Dr. Satyendra Singh Yadav	Machine Learning Applications for Future Wireless Networks	1
NITM/SI/2023/04	EC	Dr. Satyendra Singh Yadav	Quantum Communication Networks	1
NITM/SI/2023/05	EC	Dr.P.Rangababu	Embedded Machine learning for fruit ripe estimation	3
NITM/SI/2023/06	EC	Dr.P.Rangababu	Embedded Machine learning for food intake patterns	4
NITM/SI/2023/07	EC	Dr.P.Rangababu	Machine learning hardware accelerators for video processing	4
NITM/SI/2023/08	EC	Dr. Anup Dandapat	CAM Based Memory Design	2
NITM/SI/2023/09	EC	Dr. Anup Dandapat	FinFET based Memory Design	2
NITM/SI/2023/10	EC	Dr. Anup Dandapat	Multiple threshold assigning module for Memory	2
NITM/SI/2023/11	EC	Dr. Shraavan Kumar Bandari	6G wireless Communication	2
NITM/SI/2023/12	EC	Dr. Salam Shuleenda Devi	Deep learning approach for Soil Component Analysis to track nutrients	2
NITM/SI/2023/13	EC	Dr. Shubhankar Majumdar	Design of Ground Penetrating Radar for microwave imaging	4
NITM/SI/2023/14	EC	Dr. Shubhankar Majumdar	Implementing AI models on Real-Time Air Pollution Dataset	4
NITM/SI/2023/15	EC	Dr. Shubhankar Majumdar	Design of Highly linear GaN-based Power Amplifier	4
NITM/SI/2023/16	EC	Dr. Pradeep Kumar Rathore	MEMS based Sensors	2
NITM/SI/2023/17	EC	Dr. Abhishek Sarkhel	Design of SIW Antenna for 5G Communication	1
NITM/SI/2023/18	EC	Dr. Abhishek Sarkhel	Design of Metasurface Antenna for 5G Communication	1
NITM/SI/2023/19	EC	Dr. Bishnulatpam Pushpa Devi	Early detection of plant diseases using image processing	2
NITM/SI/2023/20	EE	Dr. Rakesh Roy	Design of Induction motor and its control for EV applications	5
NITM/SI/2023/21	EE	Dr. Rakesh Roy	Design of PMSM and its control for EV applications	5
NITM/SI/2023/22	EE	Dr. Piyush Pratap Singh	Control or Compensator Design of LTI Systems	1
NITM/SI/2023/23	EE	Dr. Piyush Pratap Singh	Control of Nonlinear Systems	1
NITM/SI/2023/24	EE	Dr. Sanjoy Debbarma	Power System Operation & Control	1

NITM/SI/2023/25	EE	Dr. Sanjoy Debbarma	Modeling of Wind Turbine System Integrated to Electric Grid	1
NITM/SI/2023/26	EE	Dr. Sanjoy Debbarma	Application of AI / ML to Power System	1
NITM/SI/2023/27	EE	Dr. Gayadhar Panda	Microgrid Protection using micro PMU data	2
NITM/SI/2023/28	EE	Dr. Gayadhar Panda	Harmonic estimation in RES integrated distribution network	2
NITM/SI/2023/29	EE	Dr. Gayadhar Panda	Cyber secured microgrid system	2
NITM/SI/2023/30	EE	Dr. Ksh Milan Singh	Signal Processing for parameter estimation	1
NITM/SI/2023/31	CE	Dr. Dibyendu Adak	Assesment of self-healing activity of live concrete	2
NITM/SI/2023/32	CE	Dr. Dibyendu Adak	Structural Performance of GO based Alkali activated Concrete	2
NITM/SI/2023/33	CE	Dr. Dibyendu Adak	Creep prediction and modelling of blended concrete	2
NITM/SI/2023/34	CE	Dr. Ganesh Chandra Dhal	Air Pollution and Climate Change Health Impact Assessment	1
NITM/SI/2023/35	CE	Dr. Ganesh Chandra Dhal	Comprehensive utilization of solid waste	1
NITM/SI/2023/36	CE	Dr. Ganesh Chandra Dhal	Bio-adsorbent: A cost-effective method for water treatment	2
NITM/SI/2023/37	CE	Dr. Susmita Sharma	Behaviour of soil fabric system	1
NITM/SI/2023/38	CE	Dr. Needhi Kotoky	Machine learning application in Structural Engineering	1
NITM/SI/2023/39	CE	Dr. Needhi Kotoky	Use of industrial waste in concrete	1
NITM/SI/2023/40	ME	Dr. Bikash Kumar Sarkar	Design and simulation of the electrohydraulic quadruped robot with control application	1
NITM/SI/2023/41	ME	Dr. Bikash Kumar Sarkar	Hybrid solar-hydro-wind power system control	1
NITM/SI/2023/42	ME	Dr. Rajat Subhra Das	Solar air heating system	1
NITM/SI/2023/43	ME	Dr. Rajat Subhra Das	Liquid desiccant dehumidification unit	1
NITM/SI/2023/44	ME	Dr. Kishore Debnath	Product Development using 3D Printing Technology	1
NITM/SI/2023/45	ME	Dr. Kishore Debnath	Product Development using Injection Moulding	1
NITM/SI/2023/46	ME	Dr. D.K. Sarma	Design and fabrication of internally cooled cutting tool	1
NITM/SI/2023/47	ME	Dr. D.K. Sarma	Design of textured tool for Hard machining	1
NITM/SI/2023/48	ME	Dr. Subhendu Maity	Wind energy harvesting - Computational analysis	2
NITM/SI/2023/49	ME	Dr. Subhendu Maity	Modeling of the Cardiovascular System Flow	2
NITM/SI/2023/50	ME	Dr. Biplab Kumar Debnath	Solar Still	1
NITM/SI/2023/51	ME	Dr. Biplab Kumar Debnath	CFD Analysis of Gas Mixing	1

NITM/SI/2023/52	CS	Dr. Diptendu Sinha Roy	Digital Twin modeling for smart transportation	1
NITM/SI/2023/53	CS	Dr. Diptendu Sinha Roy	Traffic congestion mitigation with visualization	1
NITM/SI/2023/54	CS	Dr. Diptendu Sinha Roy	Blockchain application devepment	1
NITM/SI/2023/55	CS	Dr. Bunil Kumar Balabantaray	Image forgery detection and localization using Deep Learning models	2
NITM/SI/2023/56	CS	Dr. Bunil Kumar Balabantaray	Preservation of cultural heritage using Deep Learning models	2
NITM/SI/2023/57	CS	Dr. Bunil Kumar Balabantaray	Development of an informative APP for Mushroom farmers	2
NITM/SI/2023/58	CS	Dr. Surmila Thokchom	Securely Sharing medical information in cloud	2
NITM/SI/2023/59	CS	Dr. Surmila Thokchom	Integrity checking of cloud data using blockchain	2
NITM/SI/2023/60	CS	Dr. Deepak Kumar	Deep Learning for Adverse Drug Reaction	2
NITM/SI/2023/61	CS	Dr. Deepak Kumar	Sign language recognition	2
NITM/SI/2023/62	PH	Dr. Arpita Nath	Laser Micromachining in Aluminium Foils	1
NITM/SI/2023/63	PH	Dr. Ayon Bhattacharjee	Liquid Crystal Biosensors (Experimental)	2
NITM/SI/2023/64	PH	Dr. Ayon Bhattacharjee	Nanocrystalline metal oxides (Simulation)	2
NITM/SI/2023/65	PH	Dr. Alekha C. Nayak	Dark matter	1
NITM/SI/2023/66	PH	Dr. Alekha C. Nayak	21 cm cosmology	1
NITM/SI/2023/67	CY	Dr. Gitish Kishor Dutta	Proton exchange membrane fuel cell	1
NITM/SI/2023/68	CY	Dr. Gitish Kishor Dutta	Electrochemical sensors	1
NITM/SI/2023/69	CY	Dr. Gitish Kishor Dutta	Electrocatalytic reduction of nitrogen	1
NITM/SI/2023/70	CY	Dr. Atanu Singha Roy	Biocomaptible Metal Nanoparticles	1
NITM/SI/2023/71	CY	Dr. Atanu Singha Roy	Quantum Dots and Biological Applications	1
NITM/SI/2023/72	CY	Dr. Atanu Singha Roy	Protein-ligand Interactions using fluorescence spectroscopy	1
NITM/SI/2023/73	MA	Dr. Bidyasagar Kumbhakar	Numerical Solution of Boundary Value Problems	1
NITM/SI/2023/74	MA	Dr. Bidyasagar Kumbhakar	Nanofluid and Hybrid Nanofluid Flows	1
NITM/SI/2023/75	MA	Dr. Bidyasagar Kumbhakar	Boundary Layer FLOW over a Stretching/Shrinking Sheet	1
NITM/SI/2023/76	HS	Dr. Paonam Sudeep Mangang	Women in Classical Greek Drama	2
NITM/SI/2023/77	HS	Dr. Paonam Sudeep Mangang	Neurosis and Psychosis in the Plays of Ibsen and Strindberg	2
NITM/SI/2023/78	HS	Dr. Paonam Sudeep Mangang	Man-Woman Relationship in Ibsen's/Strindberg's Plays	2