

## Annexure-I : List of projects for Summer Internship Program 2026 at NIT Meghalaya

LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - CE DEPARTMENT			
Sl. No.	Name of Faculty	Project (BTech/MTech)	Project Title
1	Dr. Rubi Chakraborty	B.Tech	Landslide Susceptibility Study using Remote Sensing & GIS
		M.Tech	Rainfall Induced Slope Stability Study in North-East Region
2	Dr. D. Adak	B.Tech	Integrating Machine Learning with Life Cycle Assessment for Sustainable Concrete Mix Design Optimization
		M.Tech	AI-Driven Life Cycle Assessment Framework for Carbon-Neutral Concrete Materials
3	Dr Susmita Sharma	B.Tech	Assessing the physical characteristics and heavy metal distribution in soil
		M.Tech	Prediction and identification of contamination sources in water systems
4	Dr. Smrutirekha Sahoo	B.Tech	Experimental investigation on reinforced soil
		M.Tech	Numerical analyses on reinforced soil slopes
5	Pradeep Kr Gautam	Btech/Mtech ( Mtech in Transportation Engg., Construction Technology (and allied material related Strems))	Sustainable Pavement Design using alternate material
			Self-Healing Pavement

LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - ECE DEPARTMENT			
Sl. No.	Name of Faculty	Project (BTech/MTech)	Project Title
1	Dr. Pradeep Kumar Rathore	B.Tech	Simulation of Semiconductor Devices & Sensors
		M.Tech	Simulation of Semiconductor Devices & Sensors
2	Dr. Prabir Saha	B.Tech	5.85 GHz Transceiver Antenna Design for 6G Communication
		M.Tech	5.85 GHz Transceiver Antenna Design for 6G Communication
3	Dr. Shubhankar Majumdar	B.Tech	Development of the Amplifier Design
		M.Tech	Development of the Power Amplifier design
4	Dr. Abhishek Sarkhel	B.Tech	Development of Intelligent Reflecting Surface for 6G Communication
		M.Tech	Development of Metasurface Assisted 6G Antenna Systems
5	Dr. Bibhas Manna	B.Tech/M.Tech	AI/ML Assisted Design of Nanoscaled Semiconductor Devices
			Simulation of Memory Devices and Solar Cells
6	Dr. Jagritee Talukdar	B.Tech/M.Tech	Design and Simulation of FET-Based Devices for Advanced Electronic Applications
			Performance prediction of FET-Based Devices using Machine Learning

**LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - EE DEPARTMENT**

Sl. No.	Faculty Name	Project (BTech/MTech)	Project Topic(s)
1	Dr. Piyush Pratap Singh	B.Tech	Control Systems
		M.Tech	Advanced Control of Nonlinear Systems
2	Dr. Suraj Gupta	B.Tech	Power Electronics and Drives
		M.Tech	Integration of Renewable Energy Sources with Advanced Electric Drive Systems
3	Dr. Ksh Milan singh	B.Tech/M.Tech	Hybrid System Wireless Power Transfer for EV system
		B.Tech/M.Tech	Dynamic Inductive Wireless Power Transfer for EV system
4	Dr. Pemendra Kumar Pardhi	B.Tech	Converts for Chargers and Lighting Application
		M.Tech	Converts and their control for Power Quality Improvent

**LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - ME DEPARTMENT**

Sl. No.	Faculty Name	Project (BTech/MTech)	Project Topic(s)
1	Dr. Bikash Kumar Sarkar	B.Tech	Fish Robot Control
		M.Tech	Control of Indoor air quality
2	Dr. Biplab K. Debnath	B.Tech	Solar Desalination / IC Engine
		M.Tech	Solar Drying
3	Dr. Rajat Subhra Das	B.Tech	Thermal Energy Storage Systems
		M.Tech	Sorption based dehumudification system
4	Dr. Kishore Debnath	B.Tech	Innovative Product Design through 3D Printing
		M.Tech	Thermal Phenomena in 3D Printing Processes
5	Dr. Sambit Majumder	B.Tech	3D Printing of Underwater Propellers
		M.Tech	Acoustofluidic Simulation for Microfluidic Devices
7	Dr. Maneswar Rahang	B.Tech	1) Material Deposition by Modern Manufacturing Process. 2) Parametric Analysis of Electro Discharge Machining Process using Loose Particles.
8	Dr. Bhabagrahi Natha Sharma	B.Tech	Guided Wave Based Stiffner Debonding Detection of Aircraft Structures
		M.Tech	Lap Joint Debonding Detection using Lamb Waves
9	Dr. Md Nur Alom	B.Tech	Development of a Helical bladed Hydrokinetic Turbine
		M.Tech	Design and Development of a Savonius Hydrokineic Turbine
10	Dr. Moumita Tewary	BTech & MTech	Design and simulation of soft robotic gripper

**LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - CS DEPARTMENT**

Sl. No.	Name of Faculty	Project (BTech/MTech)	Project Title
1	Dr. Ningthoujam Johny Singh	B.Tech	Real-Time Image Defogging Using Deep Learning-Based Computer Vision Techniques
		M.Tech	Hybrid CNN–Transformer Architecture for UAV-Based Disaster Detection and Classification.
2	Dr. Ngangbam Herojit Singh	B.Tech	Underwater Navigation System
		M.Tech	IoMT Framework with Tumor Detection and Monitoring
3	Dr. Diangarti Bhalang Tariang	B.Tech	Assessing the physical characteristics and heavy metal distribution in soil
		M.Tech	AI-Generated Tactile Graphics
		M.Tech	Medical Image Synthesis

**LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - MA DEPARTMENT**

Sl. No.	Name of Faculty	Project (B.Sc/M.Sc)	Project Title
1	Dr. Adarsha Kumar Jena	BSc-Mathematics/ Statistics	A Study on Estimators Based on Moments
		MSc-Mathematics/Statistics	Baysian Estimation
2	Manideepa Saha	B.Sc/ M.Sc in Mathematics	Mathematics of Rubik's Cube
3	Dr. Bidyasagar Kumbhakar	B.Sc/ M.Sc in Mathematics	Computational study of nanofluid/hybrid nanofluid flows

**LIST OF PROJECT TOPICS FOR 2026 SUMMER INTERNSHIP PROJECT - CBS DEPARTMENT**

Sl. No.	Faculty Name	Project (B.Sc./M.Sc.)	Project Topic(s)
1	Atanu Singha Roy	B.Sc.-Chemistry	Protein-Ligand interaction studies using spectroscopic approaches
		M.Sc.-Chemistry	Nanomaterials for drug delivery studies
2	Rwivoo Baruah	B.Sc -Life Science/Biotechnology	Isolation and chracterization of lactic acid bacteria from indigenous fruits
		M.Sc -Life Science/Biotechnology	Probiotic assesment of Weissella cibaria by genome analysis
3	Kaushik Talukdar	B.Sc. Chemistry	Anion recognition through noncovalent interactions
		M.Sc.-Chemistry	DFT study of molecular spectroscopic properties
4	Harshit Joshi	M.Sc.-Chemistry	Development of stereoselective carbocyclization reactions