

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

List of Students Undertaking Independent Study Projects

S.No.	Student Name	ISP Topic
1	Sibgha Naseem Malik	To objectively access the pain in individuals using EEG along valence and arousal dimensions
2	Syeda Batleha Batool	To objectively access the emotions recognition by the vocal stimulus.
3	Ayesha Sethi	A time varying epidemiological model for COVID-19 modelling and forecasting.
4	Sana Rehan	A Study of Strain Elastography Images for the Diagnosis of Breast Tumor
5	Abeer Sheikh	Fabrication and Mechanical Characterization of PVA(Poly- Vinyl Alcohol) bio ceramicbased hydrogels for bone tissue engineering
6	Wardah Rehman	Predicting the long-term TB dynamics within a GIS mapped high-prevalence community structure
7	Hafiza Syeda Alina Arif	DEVELOPMENT OF A PREDICTOR FOR EARLY DIAGNOSIS OF COLORECTAL CANCER AND ITS PROGNOSIS
8	Tooba Khan	Fabrication of Bio Glass / PVA composite for wound healing applications
9	Syeda Kainat Abbas Naqvi	Neurological Assessment of attention enhancement using custom-made Neurofeedback software.
10	Fizza Ahmed	Behavioural and Psychological Validation of Attention Enhancement Neurofeedback Protocol
11	Muhammad Khawar Abbas	-
12	Sakeena Abbas	Plantar Pressure Variation during Standing Posture and Gait
13	Syed Muhammad Faizan Raza Shah Zaidi	Design Control Prototyping and testing of Syringe Pump
14	Haniya Manzoor	Ultrasound image Texture Analysis of Human Tendons
15	Rubab Fatima Naqvi	Role of International Case Importations in the COVID-19 Burden of Sindh
16	Salar Muhammad Khan	Repurposing Drugs for the Treatment of Respiratory Infections
17	Muhammad Daniyal Maqsood Alvi	Development of Medical Device in aspects of Mechatronics system it could be class 2 class 3
18	Areeba Shakeel Ahmed	Neural Therapeutic Analysis for detection of Mental Health Issues on COVID-19 Patients
19	Khaleeqe Ahmed	Prevalence of depression in the post-spinal tuberculosis
20	Bisma Ahmed	Biomechanical Assessment of Pre and Post Knee Arthroplasty Patients
21	Umer Huda	Assessment of foot posture and anthropometry of adult population in karachi.
22	Batool Zehra	Impact of lost to followup TB cases in High Endemic Regions
23	Tooba Arshad	Development of an Autonomous Robotic Systems for Rehabilitation of Children with Autism Spectrum Disorder
24	Anum Shaikh	-
25	Anum Owais	Landscaping of Pathogenic surveillance in Karachi
26	Rabika Kamal	EEG source localization analysis for effective connectivity of resting state data using LORTA software
27	Sumbul Fatima	Investigation the causes of Birth defects

28	Syeda Wajiha Naqvi	Understanding Pathogenicity of Mycobacterium Tuberculosis for Enhancing Efficacy of BCG
29	Anila	Fractal Dimensionality of EEG Data using Higuchi method.
30	Hafiza Syeda Yusra Tirmizi	Assessment of critical congenital heart defects screening and neonatal sepsis using pulse oximetry in the neonatal intensive care unit
31	Maria Sohail	To determine the spatial prevalence and associated risk factors of Hepatitis B Virus (HBV) in Sindh, Pakistan
32	Asima Usman Ali Khan	Predicting the Chance of Occurrence of Liver Cancer in Hepatitis B and C Patients
33	Rimsha Siddiqui	Elastography strain ratios in correlation with multiple loading concentrations on varied BMI Achilles tendon
34	Amina Amin Sethi	Study of liver cancer development in hepatitis B and C patients of hepatitis viruses.
35	Asma Abrar	Analysis of effective connectivity in patients with Spinal cord injury (SCI)
36	Fatima Sughra Zaidi	Network Modeling and centrality Measures for Epidemics
37	Madeeha Haleem	Herbal Remedies for the Treatment of Diabetes Mellitus
38	Qurat ul Ain	Role of CTCF in Genetic regulation
39	Ramsha Nasir	Assessing the driver mutations that are causing the lung cancer
40	Rida ul Fatima	To study the evolutionary patterns in the species of genus Homo
41	Syeda Tooba Burney	To study the evolutionary patterns in Influenza and its transmission
42	Uzma	Exploring influenza Dynamics in connected populations
43	Shalani Nathaniel	Bioactive Material for Bone Tissue Engineering
44	Muhammad Ali Pir Zada	Effect of Iterative reconstruction on patient radiation dose and image quality for computed tomography Part 1. Comparison of Iterative reconstruction techniques Part 2. Maintain or improve image quality
45	Yusra Khan	Fabrication and Characterization of Nano particles based adhesive bone substitute
46	Marwan Ahmed Ahmed Hamid	Fabrication and Characterization of Nano particles based adhesive bone substitute Dynamic Analysis and Mapping of Brain Tumor Using optimal Methods of processing and Segmentation on MRI images in Karachi city
47	Syed Saqib Ali	Disruption in Default Mode Network of Patients with spinal injury
48	Fizza Zia	Identification of Transcription Factor Binding Sites (TFBS) using In-Silico Methods
49	Warda Ali	Identification of drugs for the treatment of epilepsy
50	Mohammed Gamil Mohammed Saif	Classification of EEG data using artificial neuron networks
51	Fatima Saima Ahmed	Brain signal analysis of patients with spinal cord damage
52	Sumera Siddiqui	Factors Affecting Disease Persistence Stochastic Settings
53	Syeda Wajiha Zaidi	The ERP Analysis and impact of task-related EEG neurofeedback system among patients with Spinal Cord Injury and neuropathic pain
54	Ayesha Ahmed Siddiqui	Classification of EEG Signals