

Department of Biomedical Engineering
BM-413 Final Year Design Project
Project List



F/SOP/FYDP 02/03/00

Batch 2020 _____

Semester Fall 2023 _____

S.No.	Project Title	Student Name	Supervisor/Co-Supervisor	Industry
01	Design and Development of Cost-effective CPM Machine with Real-time EMG and ROM Feedback	1. Laila Yousuf Judge 2. Hafiza Urooba 3. Khadija Samad Khan 4. Sidra Razi	Dr. Syed Wasim Raza	Engr. Abdullah Haider Ali (Haptics Lab, NEDUET)
02	Adhesive and Anti-corrosive Composite Coating and Characterization of AZ31 Mg Alloy Substrate for Biomedical Implant Applications	1. Abeer Azhar 2. Bisma Faheem 3. Javeria Sajeer 4. Summaiya Khalid Khan	Dr. Syed Faraz Jawed Dr. Eraj Humayun Mirza Dr. Madeeha Sadia Dr. Muhammad Rizwan	NA
03	Neural Mechanism of Language Network in Healthy Ageing	1. Warisha Athar 2. Haniah Iqbal Naseem 3. Tayyaba Wasi	Engr. Tajwar Sultana	NA
04	Enhancing Mobility and Independence with a Robotic Trunk Assistive Device	1. Bisma Mushtaq 2. Muhammad Zawyar Siddiqui 3. Ghayoor Ahmed Khan Ghauri 4. Rabeea Adeen	Dr. Ahmad Zahid Rao Dr. Muhammad Abul Hasan	Dr. Salman Farooq (NICVD)
05	Plasma Electrolytic Oxidation Coating on Magnesium Metal for Biologically Active Hard Tissue	1. Aisha Arif 2. Shamrez Shahid 3. Syeda Javeriyah Saba 4. Izma Khan	Dr. Eraj Humayun Mirza Dr. Muhammad Rizwan Dr. Syed Faraz Jawed Dr. Madeeha Sadia	NA
06	Design and Development of Uniaxial Bioreactor for Tissue Engineering	1. Muhammad Shujaat Abbas 2. Abdullah Ahmad Farooqi 3. Muhammad Waiz 4. Wajhi Ahmed	Engr. Amna Amin Sethi Dr. Eraj Humayun Mirza	NA
07	Designing Innovative Assistive Devices for Physically Disabled Patient: Reducing Inequality and Creating Partnership	1. Muhammad Faraz 2. Usama 3. Arham Aziz 4. Muhammad Farhan	Dr. Ahmad Zahid Rao Dr. Muhammad Abul Hasan Dr. Saima Kashif	Mr. Adnan Sarwar (Muscular Dystrophy Association Pakistan)

FYDP Coordinator _____

FYDP Review Committee Head _____

Chairperson _____

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08	Polymer (PVA/PCL)-Herb Composite Coatings for Advanced Anti-corrosion in Mg alloy for Medical Implants	1. Muhammad Bilal Saeed 2. Hoor Hanif 3. Zaima Waqar 4. Hamna Noor	Dr. Madeeha Sadia Dr. Eraj Humayun Mirza Dr. Syed Faraz Jawed Dr. Muhammad Rizwan	NA
09	Enhancement of Working Memory in Alzheimer's Patients: Implementation of Imaginary Coherence and Microstates Analysis	1. Nayab Mubashir 2. Mehak Fatima 3. Eman Shah Imran 4. Nisha Nasir	Dr. Muhammad Danish Mujib Dr. Muhammad Abul Hasan	Engr. Maryam Ather (Neurocomputation Lab, NEDUET)
10	Design and Development of Affordable Laboratory Incubator with Data Logging	1. Javeria Fatima 2. Nimra Jawed 3. Mehnaz 4. Syeda Mahjabeen Mazhar	Dr. Muhammad Danish Mujib Dr. Ahmad Zahid Rao	Engr. Muhammad Ali (DUHS, Ojha Campus)
11	Design and Implementation of a 4-Channel EEG Biosignal Amplification with Mobile App Visualization Interface	1. Abdul Wadood 2. Muhammad Farooq Usmani 3. Fazila Farooq 4. Laiba Farooq	Dr. Muhammad Danish Mujib Dr. Muhammad Abul Hasan	Engr. Sijil Zehra (SMART Lab, NEDUET)
12	Design and Development of Smart Electrotherapy Unit	1. Adeena Zafar 2. Wafa Hassan Khan 3. Muhammad Ebaad Khan 4. Hafsa Muhammad Arif	Dr. Muhammad Danish Mujib Dr. Muhammad Abul Hasan Engr. Fizza Zia	Engr. Osama Ejaz (Neurocomputation Lab, NEDUET)
13	Creating a Polymeric Film that Emulates the Characteristics of Human Skin	1. Noor Us Sabah Anis Motiwala 2. Maryam Shahab 3. Hiba Amer 4. Atika Gohar	Dr. Eraj Humayun Mirza Engr. Amna Amin Sethi Dr. Saima Kashif	NA
14	Artificial Intelligence Powered Brain Computer Interfaces for Paralysis Rehabilitation	1. Muhammad Maaz Hashmi 2. Muhammad Haziq Rashid 3. Hammad Ur Rehman 4. Abdul Haseeb Khan	Dr. Muhammad Abul Hasan Dr. Ahmad Zahid Rao	Dr. Bilal Zafar (Liaquat National Hospital)
15	Non-invasive Glucometer Based on Photometry Principle	1. Muhammad Hammad 2. Muhammad Khubaib 3. Muhammad Anas Khaliq	Dr. Muhammad Abul Hasan Dr. Muhammad Danish Mujib Ms. Rehana Kousar	NA