

Progress Report

For Requests and Inquiries please visit
<https://sbasse.lums.edu.pk/instrument-cell>
Email: instrument@lums.edu.pk

Instrument Cell Overview

REPAIR & DIAGNOSTICS OF SCIENTIFIC EQUIPMENT

■ **THE INSTRUMENT CELL** at the Syed Babar Ali School of Science and Engineering is now accepting requests from the Academia and the industry

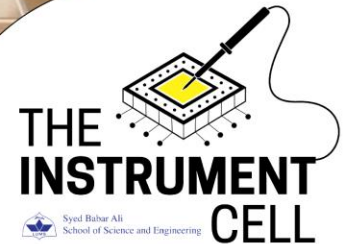
■ **THE INSTRUMENT CELL OFFERS:**

- Sophisticated Repairs
- Brisk Operations
- Empower Your Research
- Unlock Your Instrument En Route to Discovery

To get in touch with our team of experts, feel free to contact us at instrument@lums.edu.pk

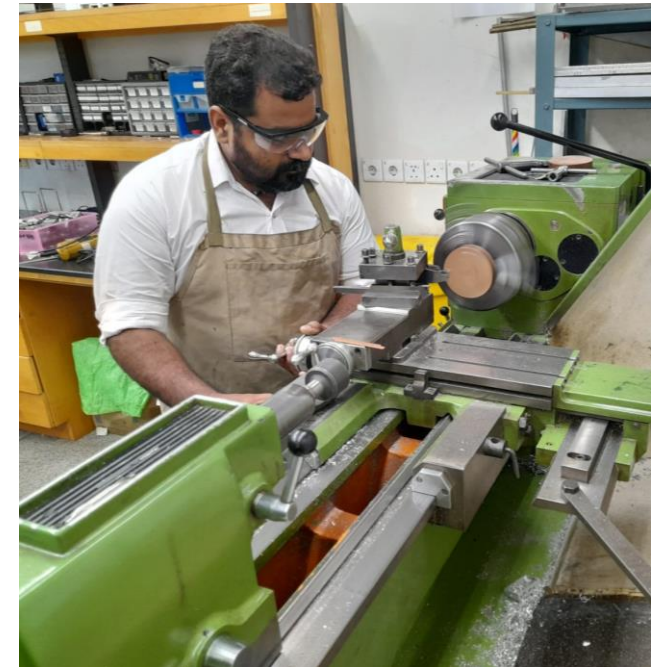
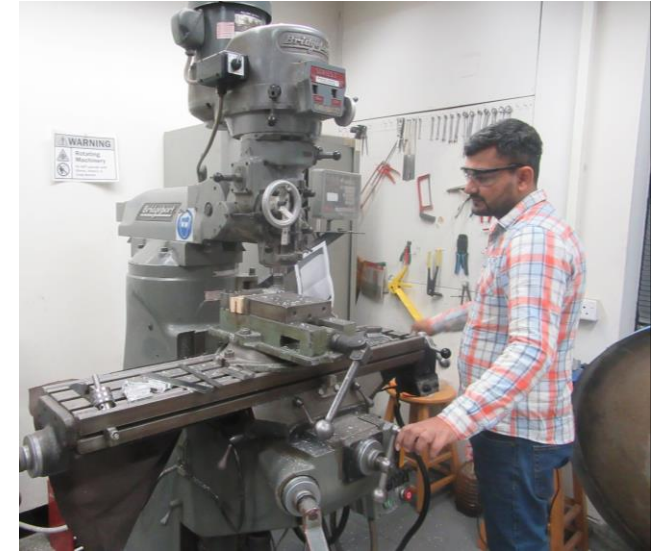
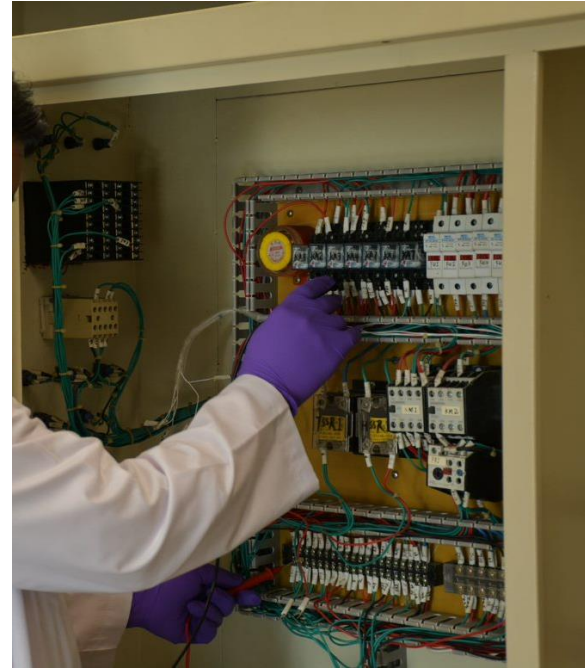
Contact: (042) 35608000 | Ext: 8360 | Ext: 3752

For online request submissions, log on to <https://sbasse.lums.edu.pk/instrument-cell>



Expertise

- **Mechanical**
 - Vacuum, pneumatics, and hydraulics
 - Design
 - Drawing using CAD software
 - Modelling using 3D CAD design software
 - Hands-on:
 - Manufacturing using machine tools such as lathe machines (manual and CNC), milling (manual and CNC), 3D printing, and power tools.
 - Measurement
 - IOT, sensing, signal conditioning
- **Electronics**
 - PCB designing
 - PCB manufacturing (routing)
 - Analog Circuit Design
- **Electrical**
 - Troubleshooting and repair
- **Computer**
 - SW development
- **Calibration and testing**



Internal Repair

- Time Duration
April 21st, 2021 – June 30th, 2023.

Description	Chemistry	Biology	The Central Lab	Electrical Engineering	Office of Research	GA & S Security	SBASSE Dean's Office	Total
Requests	95	114	28	2	1	1	4	245
Closed Requests	83	101	26	2	1	1	4	218
Serviced	77	93	26	2	1	1	4	204
Unserviceable	6	8	-	-	-	-	-	14
Open	9	12	1	-	-	-	-	22
Information incomplete	3	1	1	-	-	-	-	5
Discrete Articles	177	138	28	2	1	1	4	351

Internal- Key Performance Metrics

Total Requests = 245

Closed Requests = 218

Total Articles Received = 404

Total Revenue = Rs. 2,702,150

External Cleints (outside LUMS) Summary

- Time Duration

January 25th, 2022 – June 30th, 2023.

Total Requests	32
Discrete articles	57
Closed requests	15
Unserviceable requests	3
Open requests	17
Equipment shipment awaited	2
Total Revenue	Rs. 1,024,030

Some organizations engaged

Anwar Khawaja
Industries Pvt.
Ltd.

Bulleh Shah
Packaging
(Private) Limited.

Tti Testing
Laboratories.

Tri-Pack Films
Limited.

Fast National
University,
Peshawar,
Pakistan.

Candid
Pharmaceuticals.

COMSATS
University
Islamabad,
Lahore campus.

Fazl e Rasheed
and Co.

Pak National
Engineering.

GIK Institute of
Engineering
Sciences and
Technology.

UET, Lahore.

GCU Lahore.



Direct Reading Haze Meter



IAM (Image Analysis Module)



GRETAG D200-II DESIOMETER



L&W BENDTSEN TESTER



CAMERA MODULE



CRUSH TESTER

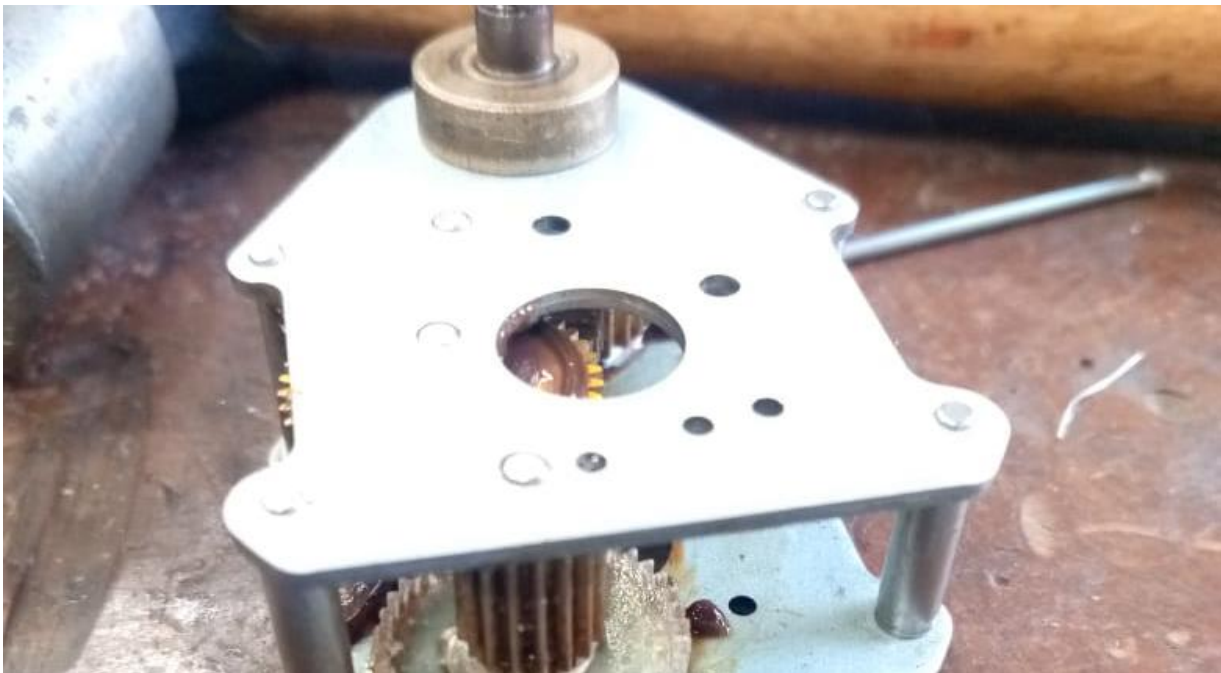


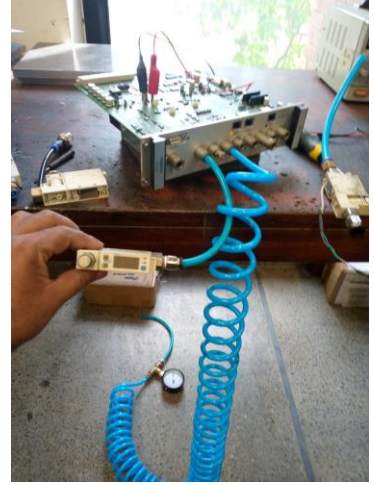
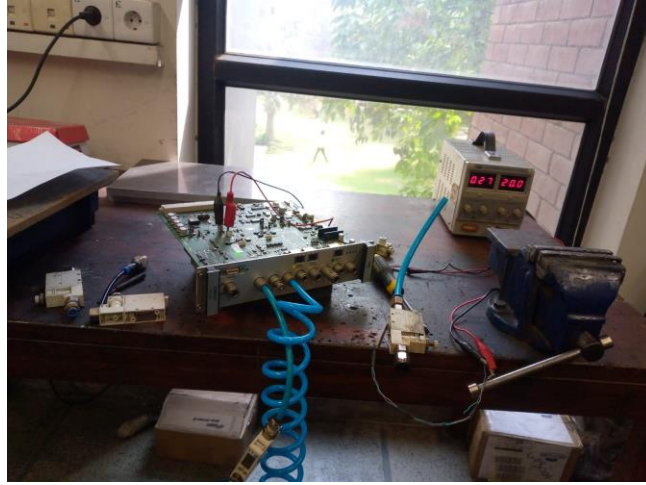
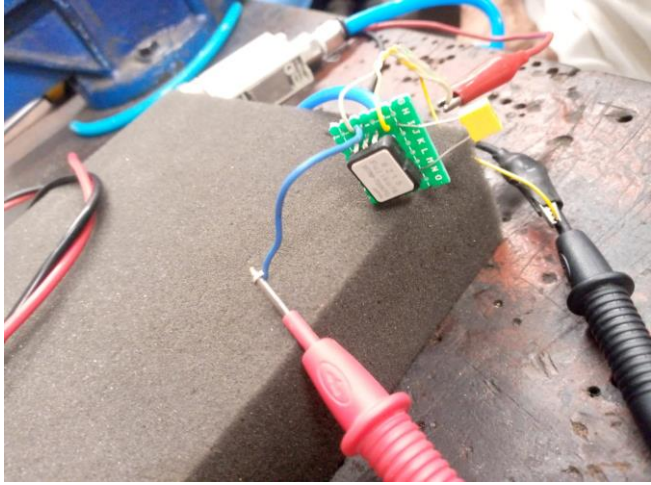
Water nozzles



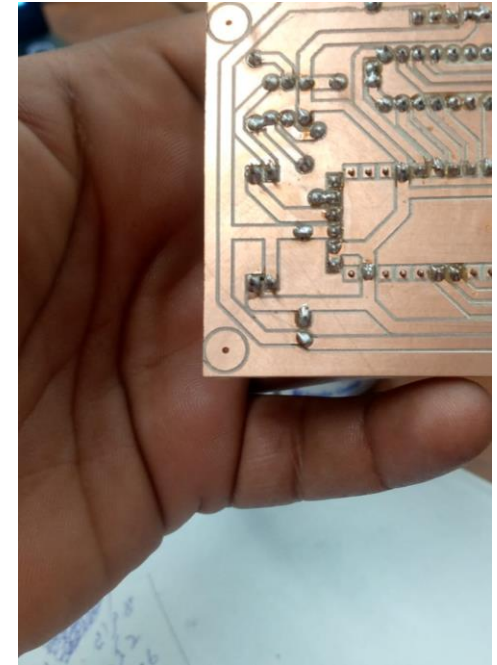
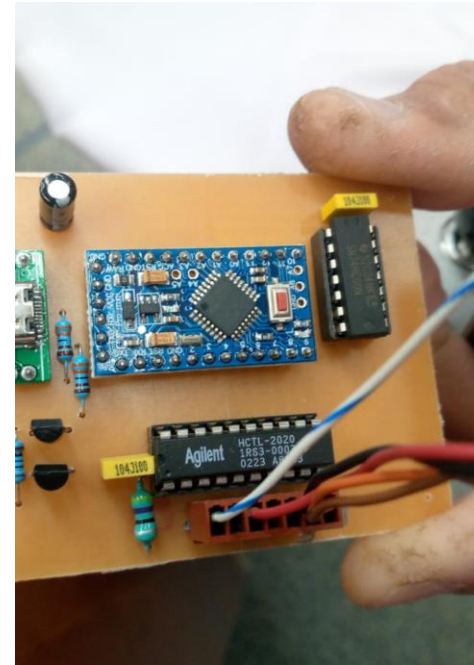
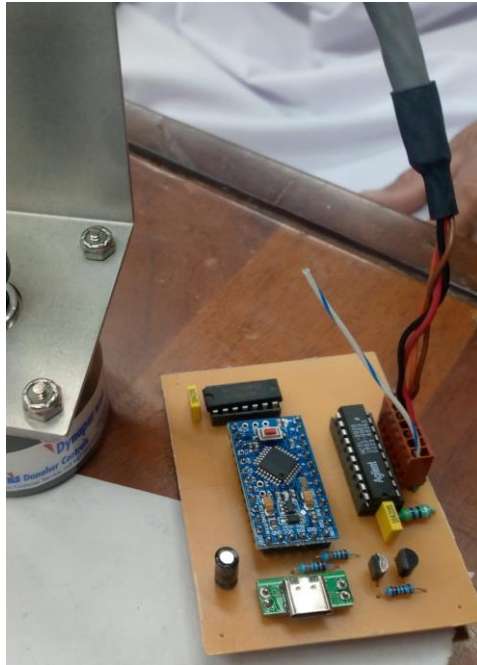
X rite Densiometer







Analog Circuit Design



Technical Training

CALL FOR STUDENT INTERNSHIP

THE INSTRUMENT CELL

HONE YOUR INTERESTS AND PASSION IN:

- Hi-tech instrumentation
- Practical Electronics
- Measurement and Control
- Reviving old machines

SEND IN YOUR CV'S AND REASONS TO JOIN, TO INSTRUMENT@LUMS.EDU.PK BEFORE 30TH JUNE 2023

POSITIONS: 2
PERIOD: JULY 2023
HONORARIUM: RS. 15,000
COMMITMENT: FULL TIME

   Syed Babar Ali
School of Science and Engineering

- Ayesha Khurram



- Syed Asad Asif

