



**NIGDE OMER HALISDEMİR UNIVERSITY**  
**CENTRAL RESEARCH LABAROTARY**

Nigde Omer Halisdemir University central campus, on Bor road, 51240, Nigde-Turkey

Tel: +90 388 225 45 00 Faks: +90 388 225 45 77

e-posta: analizbirimi@ohu.edu.tr web: <http://www.ohu.edu.tr/merkezilaboratuvar>

**ANALYSIS FEES 2022**

<b>X-RAY DIFFRACTOMETER (XRD)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-XRD 1	Pattern Shooting Only	180 TL
N-XRD 2	Pattern Shooting and Mineral Analysis (Qualitative Evaluation)	220 TL
N-XRD 3	Quantitative Analysis with Rietveld	750 TL
N-XRD 4	Clay Fraction Pattern Shooting	540 TL
N-XRD 5	Clay Fraction Evaluation	600 TL
N-XRD 6	Thin Film Diffraction Pattern Shooting	300 TL
N-XRD 7	Thin Film Analysis and Evaluation	500 TL
N-XRD 8	Kidney Stone Analysis	50 TL
<b>SCANNING ELECTRON MICROSCOPE (SEM)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-SEM 1	SEM	300 TL/hour
N-SEM 2	EDX (until 6 points)	100 TL/per
N-SEM 3	EDX (mapping)	300 TL/hour
<b>SPECTROSCOPIC ELIPOMETER (SE)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-SE 1	Determination of Thickness and Optical Parameters of Thin Films	350 TL
<b>EXTRUDER</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-EXT 1	Double Auger Extruder	300 TL
N-EXT 2	Double Auger Extruder and Cast Film	400 TL



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<b>INDUCTIVE MATCHED PLASMA MASS SPECTROSCOPY (ICP-MS)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-ICP-MS 1 (until 10 elements)	Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb,Ti, Tl, V, Zn	200 TL For each additional element 40 TL
N-ICP-MS 2	Hg, Au, Gd, Re (fee includes only one element)	200 TL
N-ICP-MS 3	Ca, Mg, Na	200 TL
N-ICP-MS 4	Fe, Se, As, Sb	200 TL
N-ICP-MS 5	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, U, Y, Yb	300 TL For each additional element 40 TL
* An additional 250 TL will be requested for urgent samples and samples less than 5.		
<b>GAS CHROMATOGRAPHY MASS SPECTROSCOPY (GC-MS)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-GC-MS 1	GC/MS Qualitative	250 TL
N-GC-MS 2	GC/MS Qualitative	250 TL
N-GC-MS 3	GC/MS Per Quantitative Additional Component	80 TL
<b>X-RAY FLUORESCENCE SPECTROSCOPY (XRF)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-XRF 1	Element Analizi (Yarı Kantitatif)	250 TL
N-XRF 2	Kantitatif Temel Oksit Analiz	300 TL
N-XRF 3	Kantitatif Eser Element Analizi	300 TL
N-XRF 4	Eser Element + Temel Oksit	500 TL
<b>PARTICLE SIZE AND ZETA POTENTIAL (PZL)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-PZL 1	Nano Size Particle Measurement	150 TL



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N-PZL 2	Zeta Potential Measurement	180 TL
N-PZL 3	Isoelectric point	420 TL
N-PZL 4	Surface Zeta Potential Measurement	500 TL
<b>MECHANICAL PROFILOMETER (MP)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-MP 1	Surface Roughness and Thickness Determination (2D Measurement)	200 TL
N-MP 2	3D Mapping	300TL+1 hour addition 100 TL/hour
<b>TERMAL ANALİZ (TGA-DTA / DSC)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-TAL 1	0-1 hour	200 TL
N-TAL 2	1-3 hour	250 TL
N-TAL 3	3-7 hour	300 TL
N-TAL 4	Thermogram Review and Interpretation	250 TL
N-TAL 5	DSC	200 TL
<b>RAMAN</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-RMN 1	Raman Spectroscopy	250 TL/per
N-RMN 2	Mapping	400 TL/per
<b>AFM</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-AFM 1	Contact Mode	400 TL/hour
N-AFM 2	Tapping Mode	500 TL/hour
N-AFM 3	STM Mode	550 TL/hour
<b>BET</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-BET 1	Single Point BET	200 TL



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N-BET 2	Multipoint BET	280 TL
N-BET 3	Multipoint BET + Pore Size	300 TL
N-BET 4	Multipoint BET + Micropore Size	350 TL
<b>SES EMPEDANS CİHAZI</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-SES 1	Sound Transmission Loss Measurement	300 TL
N-SES 2	Sound Absorption Coefficient (Short Frequency)	180 TL
N-SES 3	Sound Absorption Coefficient (Long Frequency)	200 TL
<b>MASTERSIZER</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-MS 1	Age Analysis	200 TL
N-MS 2	Dry Analysis	220 TL
<b>REOMETER</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-REO 1	Temperature Scan	500 TL
N-REO 2	Strain Scan	350 TL
N-REO 3	Frequency Scan	350 TL
N-REO 4	Viscosity Measurement	400 TL
N-REO 5	Tiksotropi Measurement	400 TL
<b>HELIUM PICNOMETER</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-PKN 1	Density Analysis	150 TL
<b>FT-IR</b>		
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N-FTR 1	Spectrum	150 TL
N-FTR 2	Spektrum (With Microscope)	250 TL
N-FTR 3	Spektrum (Pelet)	200 TL
<b>RENK TAYİNİ (HUNTER LAB)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-RNK 1	Spectrophotometer (Color Determination)	100 TL
<b>THERMAL CONDUCTIVITY</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-TC 1	Thermal Conductivity Measurement	350 TL /Per
<b>FOUR POINT RESISTANCE</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-DND 1	Four Point Resistance Measurement	300 TL /Per
<b>MASKESİZ LİTOGRAFI (ML)</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-ML 1	Surface Cleaning	120 TL
N-ML 2	Photoresist Coating, Softbake, Exposure and Develop Process (Including consumables)	320 TL / 1hour
		310 TL / 1-3 hour
		300 TL /3 hours and more
N-ML 2	Photoresist Coating, Softbake, Exposure and Develop Process (Excluding consumables)	300TL / 1 hour
		280 TL / 1-3 hour
		270 TL /3 hours and more
N-ML 3	Hardbake and Etching Process	50 TL / Per
N-ML 4	Pattern Determination with Optical Microscopy	25 TL / Per
<b>SAMPLE PREPARATION</b>		
<b>Analysis Code</b>	<b>Analysis Description</b>	<b>Analysis Fees</b>
N-NH 1	Grinding Jaw Crusher	50 TL/Per



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N-NH 2	Filtration	50 TL/Per
N-NH 3	Extraction	15 TL/Per
N-NH 4	Drying	100 TL/ Hour
N-NH 5	Ultrasonic Bath	50 TL/Hour
N-NH 6	Ash Furnace (> 1100 °C)	150 TL/Hour
N-NH 7	Ash Furnace (> 1100 °C)	200 TL/ Hour
N-NH 8	Ball Mill (Tungsten)	50 TL/per
N-NH 9	pH Analysis	50 TL/per
N-NH 10	Clay Fraction Preparation	250 TL
N-NH 11	Sample preparation (Au-Pd coating - up to 10 samples)	100 TL
N- NH 12	Sample Preparation (Au-Pd coating - for each sample after 10 pieces)	50 TL
N- NH 13	Sample preparation (C coating)	100 TL
N- NH 14	Sample Preparation (microwave digestion, up to 12 samples)	200 TL
N- NH 15	Sample Preparation with HF	250 TL
N- NH 16	Sample Preparation	100 TL
N- NH 17	Sample Preparation (Press)	50 TL
N- NH 18	Sample Preparation (Melting)	100 TL
N-NH 19	Determination of Acid Insoluble Substance Amount	100TL
N-NH 20	Mass Loss at 105 °C	100TL
N-NH 21	Refrigerated Centrifuge	150 TL/ Hour
N-NH 22	Homojenizator	100 TL/ Hour

\* There is no discount for sample preparation fees.

**NOTE:**

1. Prices do not include VAT.

2. Discounted tariffs are not applied, except for students over the age of 65, victims of terrorism, and relatives of martyrs.



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3. A special fee is charged for analysis, measurements and reports that do not require special analysis or equipment.

**SPECIAL NOTE:**

1. N-ML 1 coded surface cleaning is done in an ultrasonic bath with 4 different solvents unless otherwise specified. Subsequently, surfaces are exposed to UV Ozone / Oxygen Plasma. The service period of the processes included in the N-ML 2 coded service is equivalent to the exposure time of the pattern desired to be created on the surface, determined by the device.
2. The total price is determined at the end of the service. The organization requesting the service is obliged to provide one extra surface for once in order to calibrate the device to the surface. The surface provided for calibration processes must have the same chemical and physical properties as the surface to be patterned.
3. Although the photolithography device to be patterned is calibrated, our institution is not responsible for deformations that may occur on the pattern and / or the surface due to the chemical and physical properties of the surface.
4. Despite the calibration of the photolithography device on which the patterning will be made, on the pattern and/or surface due to the chemical and physical properties of the surface. Our institution is not responsible for deformations that may occur.