



MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

AUTONOMOUS INSTITUTION - UGC, GOVT. OF INDIA

NIRF – India Ranking – 2020, Accepted by MHRD, Govt. of India,
Accredited by NBA & NAAC with A grade – ISO 9001-2015 Certified,
Permanently Affiliated to JNTUH, Approved by AICTE.

DEPARTMENT OF HUMANITIES & SCIENCES

Major Equipment List

APPLIED PHYSICS LAB

S. No.	Name Of The Lab	Name Of The Equipment	Quantity	Total Cost
1	Applied Physics Lab-I	Torsion pendulum period- Rigidity modulus of the metal wire	3	6600
		Stewart and Gees Experiment- magnetic field along the axis of a coil	3	18960
		Melde's Experiment-To measure the frequency of the given tuning fork	3	9870
		Energy band gap of a semiconductor PN Junction	3	9120
		Newton's rings apparatus	3	29490
		Dispersive power of the Prism	3	34830
		Measurement of the wave length of the given light using diffraction grating	3	6600
		Measure of RC time constant	3	13800
		Measurement of the resonant frequency of LCR circuit serial & parallel	3	8550
		LED characteristics	3	9750
		LASER DIODE characteristics	1	4950
		Single slit diffraction by LASER	3	18570
		Measurement of numerical aperture & Bending loss an OFC	3	37500
SOLAR CELL Characteristics	3	14850		

		Hall experiment	2	101900
		Photo electric effect experiment	2	33000
2	Applied Physics Lab-II	Torsion pendulum period- Rigidity modulus of the metal wire	2	4400
		Stewart and Gees Experiment- magnetic field along the axis of a coil	2	12640
		Melde's Experiment-To measure the frequency of the given tuning fork	2	6580
		Energy band gap of a semiconductor PN Junction	2	6080
		Newton's rings apparatus	2	19660
		Dispersive power of the Prism	2	23220
		Measurement of the wave length of the given light using diffraction grating	2	4400
		Measure of RC time constant	2	9200
		Measurement of the resonant frequency of LCR circuit serial & parallel	2	5800
		LED characteristics	2	6500
		LASER diode characteristics	2	9900
		Single slit diffraction by LASER	2	12380
		Measurement of numerical aperture & Bending loss an optical fiber	2	25000
		SOLAR CELL Characteristics	2	9900
		HALL effect	2	101900
		Photo electric effect	2	33000



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ENGINEERING CHEMISTRY LAB

S. No.	Name Of The Lab	Name Of The Equipment	Specifications	Quantity	Total Cost
1	Engineering Chemistry Lab I	UV Chamber	LALCO	1	8250
		Shaker Bath	INDO SHAKTI	1	17500
		Conductivity meter	DCM-611&INFRA DIGI	7	97110
		Potentiometer	DP003& INFRA DIGI	4	33340
		Colorimeter	1919-EX2&digital EI312	3	195000
		Redwood Viscometer	RED VISCOMETE R-1	2	31900
		Water Distillation Unit	Sisco	1	5500
		12 Holed Water Bath	ASICO	2	8400
		Analytical balance	Precision	2	3400
		Digital Balance	Infra	2	11700
		Magnetic Stirrer		1	4250

		PH meters	Infra	6	41600
		Stalгамometer		30	2040
		Ostwald's Viscometer		13	988
		TLC Plates silica coated		1	5650
		TLC Chambers		3	480
		Iodine Blower		5	800
		Glass Electrode		2	2000
2	Engineering Chemistry Lab II	UV Chamber	LALCO	1	8250
		Shaker Bath	INDO SHAKTI	1	17500
		Conductivity meter	DCM- 611&INFRA DIGI	7	97110
		Potentiometer	DP003& INFRA DIGI	3	24640
		Colorimeter	1919- EX2&digital EI312	3	195000
		Redwood Viscometer	RED VISCOMETE R-1	1	8147
		Water Distillation Unit	Sisco	1	5500
		12 Holed Water Bath	ASICO	1	4200
		Analytical balance	Precision	2	3400
		Digital Balance	Infra	2	17900

		Magnetic Stirrer		1	4250
		PH meters	Infra	6	30748
		Stalgamometer		30	2040
		Ostwald's Viscometer		12	912
		TLC Plates silica coated		1	5650
		TLC Chambers		2	320
		Iodine Blower		5	800
		Glass Electrode		2	2000



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ENGLISH LANGUAGE COMMUNICATION SKILLS LAB

S. No.	Name Of The Lab	Name Of The Equipment	Specifications	Quantity
1	ELCS LAB I	Public Address System	Ahuja	2
		Projector	Dell DLP12105	4
		Digital Audio-Video System	InfraLab Touch Lectern	2
		Television	Samsung 32FH4003	2
		Round tables		10
		Movable chairs		62
2	ELCS LAB II	Master Console (Multimedia Computers)	DELL Vostro 3902	2
		Student Console (Multimedia Computers)	DELL Vostro 3653,3268	60
		Head phones	MT808 MM Infotech	60
		Platform Software	K-van V6.0	60
		Learning Software	K-van V6.0	60



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ENGINEERING WORKSHOP

S. No.	Name Of The Lab	Name Of The Equipment	Quantity
1	EWS LAB I	Carpentry Tool Kit	6
		Fitting Tool Kit	6
		Tin Smithy Tool Kit	7
		House Wiring Toll Kit	6
		Arc Welding Machine & Tools	1
		Foundry Stations & Toll Kit	1
		Gas Welding & Tool Kit	1
		Black Smithy Furnace & Tool Kit	1
		Power Tools Lathe Machine, Drilling Machine, Power Hacksaw, Air Plasma Cutting M/C, Wood Turning Lathe, Soldering Station, French Grinder, Plumbing Tool Kit	8
2	EWS LAB II	Carpentry Tool Kit	6
		Fitting Tool Kit	6
		Tin Smithy Tool Kit	7

		House Wiring Toll Kit	6
		Arc Welding Machine & Tools	1
		Foundry Stations & Toll Kit	1
		Gas Welding & Tool Kit	1
		Black Smithy Furnace & Tool Kit	1
		Power Tools Lathe Machine, Drilling Machine, Power Hacksaw, Air Plasma Cutting M/C, Wood Turning Lathe, Soldering Station, French Grinder, Plumbing Tool Kit	8