

## Details of instruments

**Department: Physics**

**HOD: Dr S.Konar**

SN	Name of the Instrument	Make/Model	Date of Purchase & Installation	Cost in Rs	Present Status (Working /Not Working)	Whether the instrument is under Warranty/ AMC (Yes/No)	Physical Location	Application of the Instrument	User Departments	Faculty- In-charge ( Contact No & Mail ID)	Technician ( Contact No & Mail ID)
1.	Anodic Vacuum Arc Deposition Unit	Hind High Vacuum Pvt Ltd. Bangalore	1996	500000.0	Working	No	Plasma -I	Thin Film Deposition	Physics	<b>Dr. Sanat Mukherjee</b> Contact :9431363464 email: sanat_aphy@yahoo.co.in	Mr Rajkishore Pramanik, 9955456306
2.	Cryogenic Set up	Oxford Instruments, UK	2003	1000000.0	Working	No	Plasma -I	Superconducting Thin Films	Physics	<b>Dr. S. Keshri</b> Contact: 9431105821 email:s_keshri@bitmesra.ac.in	Mr Rajkishore Pramanik 9955456306,
3.	RF Magnetron Sputtering Unit	Plasma Consult	2006	2800000.0	Working	No	Plasma - I	Thin Film Deposition	Physics	<b>Dr. S.K.Sinha</b> Contact :9430195009 email: sksinha@bitmesra.ac.in	Mr Rajkishore Pramanik 9955456306,
4.	RF/DC Co sputtering System	Vacuum Technique, Bangalore	2007		Working	No	Plasma-II	Thin Film Deposition	Physics	<b>Dr. S.K.Sinha</b> Contact :9430195009 email: sksinha@bitmesra.ac.in	Mr Rajkishore Pramanik, 9955456306
5.	RF PECVD System		2007		Working	No	Plasma-II	Thin Film Deposition	Physics	<b>Dr. S.K.Sinha</b> Contact :9430195009 email:sksinha@bitmesra.ac.in	Mr Rajkishore Pramanik, 9955456306
6.	Plasma Nitriding System( Plasmaon 300)	Milman, Pune	2007		Working	No	Plasma-II	Plasma ion Deposition	Physics	<b>Dr. S.K.Sinha</b> Contact :9430195009 email: sksinha@bitmesra.ac.in	Mr Rajkishore Pramanik, 9955456306
7.	Ferroelectric Loop Tracer	M/S Radiant Technologies Inc	2011	3700000.00	working	No	Raman Lab	Research in Mat. Sc.	Physics	<b>Head of the Department of Physics</b>	<b>Mr Ajay Khalko;</b> 9534196146
8.	Nanoindenter & Nano Tribometer	Center for Tribology, Inc, USA	2011	USD 155564.00	working	No	Raman Lab	Research in Mat. Sc.	Physics	<b>Head of the Department of Physics</b>	<b>Mr Ajay Khalko;</b> 9534196146
9.	Raman Spectrometer	Renishaw, UK	2012	GBP 82000.00	working	No	Raman Lab	Research in Mat. Sc.	Physics	<b>Head of the Department of Physics</b>	<b>Mr Ajay Khalko;</b> 9534196146
10.	Thermal CVD System	Technos Instruments, Jaipur	2012	1725000.00	working	No	Plasma-II	Research in Nanotechnology	Physics	<b>Dr. Sanat Mukherjee</b> Contact :9431363464 email: sanat_aphy@yahoo.co.in	<b>Mr Ajay Khalko;</b> 9534196146

11.	Optical Spectrum Analyser	THORLAB	30.4.15	USD 26425.25	working	No	Optics	Research & Measurements	Physics	<b>Dr. K Bose</b> Contact No: 9470522811 email: kingshuk6@gmail.com	<b>NA</b>
12.	DC Magnetron Sputtering	Vacuum Tech & Excel International			Not working	<b>No</b>	Plasma-II	Thin Film deposition Research	Physics	<b>Dr. Rishi Sharma</b> Contact No: 9431585496 email: rsharma@bitmesra.ac.in	Mr Rajkishore Pramanik, 9955456306
13.	Lock In Amplifier	Stanford Re / SR 124	28.03.17	USD 7985.00	Working	<b>Yes</b>	Optics	Research	Physics	<b>Dr. K Bose</b> Contact No: 9470522811 email: kingshuk6@gmail.com	<b>NA</b>
14.	Semiconductor Characterization Unit	Keithley	13-4-2017	US\$ 38089.0	Working	<b>Yes</b>	Plasma-II	Research on semiconductor	Physics	<b>Dr. Sanat Mukherjee</b> Contact :9431363464 email: sanat_aphy@yahoo.co.in	<b>Mr Ajay Khalko;</b> 9534196146

### Instruments under Different R&D Projects

SN	Name of the Instrument	Make/Model	Date of Purchase & Installation	Cost in Rs	Present Status (Working /Not Working)	Whether the instrument is under Warranty/ AMC (Yes/No)	Physical Location	Application of the Instrument	User Departments	Faculty- In-charge ( Contact No & Mail ID	Technician ( Contact No & Mail ID
1.	Microwave PECVD System	Vacuum Tech Pvt Ltd., Bangalore	2007		Working	No	Plasma-II	Thin Film Deposition	Physics	<b>Dr. Rishi Sharma</b> ( PI of the project) Contact No: 9431585496 email: rsharma@bitmesra.ac.in	Mr Rajkishore Pramanik,  9955456306
2.	Solar Simulator	Newport	2010	8.0 lacs	Working	NO	Raman Lab	Solar cell /thin film characterizati-on	Physics	<b>Dr. Rishi Sharma</b> ( PI of the project) Contact No: 9431585496 email: rsharma@bitmesra.ac.in	
3.	Atmospheric Pressure Plasma Jet	Techno Instruments	2013	993954.00	working	No	Plasma-II	Research in Plasma Technology	Physics	<b>Dr. Rishi Sharma</b> ( PI of the project) Contact No: 9431585496 email: rsharma@bitmesra.ac.in	<b>Mr Ajay Khalko;</b>  9534196146
4.	UV Visible Spectrometer	Perkin Elmer, USA	2014	800000.00	Not working	No	Raman Lab	Research & Measurements	Physics	<b>Dr. Ela Sinha</b> ( PI of the project) Contact No: 8986800150; elasinha@gmail.com	NA
5.	PL Fluorescence Spectrometer	Perkin Elmer, USA	2014	1400000.0	working	No	Raman Lab	Research & Measurements	Physics	<b>Dr. S. K. Rout</b> ( PI of the project) Contact No: 9471555277 email:skrout@bitmesra.ac.in	NA
6.	2 -Target R.F. Magnetron Sputtering Unit	Advance Process Tech., Pune	2014	1597500.00	working	No	Plasma-I	Thin Film Deposition	Physics	<b>Dr. S. Keshri</b> ( PI of the project) Contact: 9431105821 email:s_keshri@bitmesra.ac.in	NA
7.	Optical Emission Spectroscope (OES)	Andor	5.8.14	950000.00	working	No	Plasma-II	Research & Measurements	Physics	<b>Dr. Rishi Sharma</b> Contact No: 9431585496 email: rsharma@bitmesra.ac.in	NA
8.	Ball Milling	Fritz	2009	1600000.0	Working	Yes	Furnace Lab	Research on materials	Physics	<b>Dr. S. K. Rout</b> ( PI of the project) Contact No: 9471555277 email:skrout@bitmesra.ac.in	NA

9.	Impedance Analyzer	Solartrans	2017	1500000.0	Working	Yes	Plasma Lab-I	Characterization of materials	Physics	<b>Dr. S. K. Rout</b> <b>( PI of the project)</b> <b>Contact No: 9471555277</b> <b>email:skrout@bitmesra.ac.in</b>	NA
----	--------------------	------------	------	-----------	---------	-----	--------------	-------------------------------	---------	---	----

**Signature of HOD/Incharge**