

MFOC Lab (Room – 504) Year 18-19

1	Name OF Lab:	Microwave Frequency / Optical Communication Lab
2	Room No. :	504, Fifth Floor, Extc Dept.
3	Lab Area:	66 sq. mtrs.
4	Name of Lab Incharge:	Prof. Reena Sonkusare
5	Name of Technical Assistant:	Mrs. Rupali Loke
6	Total Cost of Equipment In the Lab	53,13,865/-
7	Total Cost of Software In the Lab:	19,17,850/-
8	Total Cost of Furniture In the Lab:	80,700/-
9	Total Cost of Lab:	73,12,415/-
10	Lab Facilities:	<p>This Lab is Equipped with various Microwave and Optical Fber Communication Kit and Desktop Computers with Internet facility.</p> <p>For OFC practicals various kits are provided to students. Student perform the connection and observe the characteristics for optical fiber.</p> <p>For microwave practicles students build a microwave test bench using klystron/ gunn source and measure various parameters at RF frequency.</p> <p>For DE practicals student are provided with breadboards to implement various digital electronics circuits and verify truth table.</p> <p>On Vector Network Analyzer students can measure s-parameters, draw various plot for different microstrip components.</p> <p>This Lab is open till 8' clock at evening for extra project work on requeat.</p> <p>This Lab is also issued to the students for their Special Organized workshop on request.</p>
11	List of Major Equipments.	<ol style="list-style-type: none"> 1. Klystron based Microwave Bench. 2. Gunn Osc. based Microwave Bench . 3. Transmission line trainer signet make. 4. Fiber Optic Communication Trainer kits. 5. 14GHz Microwave Vector Network Analyzer. 6. RF Signal Generator 9Khz to 3 GHz . 7. RF Trans & Courseware Kit. 8. Micro-strip Antenna Trainer Kit.
12	List of Major Softwares.	<ol style="list-style-type: none"> 1. IE3D Software - IE3D (Hiper lynx 3DEM) SSD bundle- 3D Geometry drawings/ editing onlimited core simulation engine) Perpetual license networ licience 2. IE3D Software- IE3DDGHz- 3D Electro magnetic bundle(hiper lynx G4z-3DEM) - BUNDLE WITH si lsimGHAzAPsoo Perpectual licence Nodo locked <p>Anslys Acadmic Research HF-1 Task, Ansoft Desingner (RF & SI), HFSS, Slwave, Q3D Extracror, Optimetrics, ECAD Translators (Ansoft Links), MCAD Translators (Perpetual License)</p>

Equipments and Software Purchased for year 2018-19

Sr. No.	Stock Entry	Description of Equipments	Date of Purchase	Qty	Cost Rs.
1	15	Printer HP1020 Laserjet	11/02/19	1	10,974/-
2	21	Casio XJVI LED projector,XGA 2700 LED lumens,HDMI warrenty-3YRS	01/03/19	1	45,760/-
3	22	UBLOX NEO-M8T			43,080/-
		1)TIME & RAW RECEIVER BOARD WITH SMA(RTK ready)		2	
		2)NEO-M8T Time & Raw Triple Band-LIS3MDL Tallysman TW2710 for RTK		2	
Total					99,814/-

Total Cost of equipments purchased till Year 2017– 18 =57,44,807/-
Total Cost of equipments purchased for Year 2018 -19 =99,814/-
Total Cost of Furniture purchased till Year 2018-19 = 80,700/-
Purchase of Software under MODROB Grant for Year 2013-14 = 14,87,850/-
Software purchased till Year 2018-19 = 4,30,000/-
Cost Of Equipments Permanently Transferred from Lab Till March 2018 = 5,30,756/-
Total Cost of Lab = 73,12,415/-