



**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620 015, TAMIL NADU  
Office of the Dean( Planning& Development )**

**Laboratory Upgradation - November 2012 - November 2014**

The list includes equipment added to the Laboratories of different departments / centers during Nov'12 - Nov'14. These equipment can be utilized by faculty /students of NITT by contacting the respective faculty in-charge of the equipment. This list will be updated as and when there are additions.

<b>List of equipment costing above 2 Lakhs purchased through plan fund 2012-2013</b>					
<b>Architecture</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
1	Mid-Range Workstation	65	72.00	Prof.P.Gopalakrishnan gopal@nitt.edu Phone: 0431-2503564	CAD Lab & Computer Lab / Architecture Dept
		<b>Total</b>	<b>72.00</b>		
<b>CECASE</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
2	Coating Thickness Measurement Unit	1	2.55	Dr.S.Natarajan Dr.S.P. KumareshBabu sn@nitt.edu babu@nitt.edu Phone: 0431-2503456 Phone:0431-2503462	Temporarily installed in MME Annex building. Will be shifted to a permanent location later
3	Two and Three Body Abrasion Equipment	1	4.18		
4	High Temperature Oxidation Furnace	2	2.63		
5	High Temperature Hot Corrosion Furnace	2	3.67		
6	Reciprocating wear Testing kit	1	10.88		
		<b>Total</b>	<b>23.91</b>		
<b>CEESAT</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
7	High volume sampler	2	3.59	Dr.(Mrs).M.Premalatha latha@nitt.edu Phone : 0431 - 2503118	Environmental Lab / CEESAT Dept
8	Laminar AIR FLOW Chamber	2	2.00		Bio Energy Lab / CEESAT Dept
9	Fluorescent microscope	1	14.33		
10	Bomb calorimeter	1	14.50		
11	Concentric collectors	2	3.80		
12	Data Logger	2	6.00		

13	Calibration unit for Pressure and Temp	1	24.00	Dr.(Mrs).M.Premalatha latha@nitt.edu Phone : 0431 - 2503118	Solar Lab / CEESAT Dept
14	IC Engine test rig	1	4.90		Soil & Testing Lab / CEESAT Dept
15	Water purification system	1	5.08		
		<b>Total</b>	<b>78.20</b>		

### Chemical Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
16	Fuel cell test station	1	22.50	Mr.N. Samsudeen samsudeen@nitt.edu Phone: 0431-2503100	Research Lab / Chemical Dept
17	Multi parameter systems – DTO meter	4	2.80	Dr.P. Sivashanmugham psiva@nitt.edu Phone: 0431-2503106	Chemical & Bio-Chemical process Lab / Chemical Dept
18	Brookfield Viscometer with accessories	1	9.60		
19	Automated cell counter	1	3.73	Dr.M. Perumalsamy mpsamy@nitt.edu Phone: 0431 - 2503112	Bio- Separation Lab / Chemical Dept
20	Thermal conductivity analyzer	1	4.99	Dr.M. Arivazhagan ariva@nitt.edu Phone:0431-2503111	Technical Analysis Lab / Chemical Dept
21	Probe type Sonicator	2	2.94	Dr. M. Matheswaran matheswaran@nitt.edu Phone:0431-2503120	Environmental Lab / CEESAT Dept
22	gProms software	1	7.50	Dr.J. Sarat Chandra Babu sarat@nitt.edu Phone: 0431 - 2503107	Computer Lab / Chemical Dept
23	ICP	1	45.00		Project Lab / Chemical Dept
		<b>Total</b>	<b>99.06</b>		

### Chemistry

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
24	UV-visible-near infra-red spectrophotometer	1	8.50	Dr.V.M. Biju vmbiju@nitt.edu Phone: 0431-2503638	Bio & Electro Analytical Chemistry Lab / Science Block
25	Bipotentiostat with high current power booster	1	16.57	Dr.(Mrs)L. Cindrella cind@nitt.edu Phone: 0431-2503634	Physical Chemistry Lab / Admin Block
26	Rotary evaporator accessories (chiller and vacuum pump)	1	3.48		Mendeleev Lab / Admin Block
27	Bipotentiostat with Rde, Rrde, Adc- fast scan ultra-fast sampling module equipment	1	22.74	Dr.S. Anandan sanand@nitt.edu Phone: 0431-2503639	Instrumentation Room / Admin Block
28	Vacuum glove box	1	2.26		

29	Gas chromatograph with TCD detector	1	12.26	Dr.A.Sreekanth sreekanth@nitt.edu Phone: 0431-2503642	CEESAT Building
30	Gel documentation system	1	8.42		
31	Rotary evaporator	1	2.00	Dr.G. VenkatesaPrabhu venkates@nitt.edu Phone: 0431-2503665	Mendeleev Lab / Admin Block
32	Focussed microwave reactor	1	12.68	Dr.(Mrs).S.Velmathi velmathis@nitt.edu Phone: 0431-2503640	Microwave Lab / Admin Block
33	UV-visible spectrophotometer	1	7.34	Dr.R. Karvembu kar@nitt.edu Phone:0431-2503636	CEESAT Building
		<b>Total</b>	<b>96.25</b>		

#### Civil Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
34	Projection microscope with digital camera	1	2.65	Dr.R. Gandhimathi rgmathi@nitt.edu Phone: 0431 - 2503171	Environmental Lab / Civil Dept
35	Ultrapure water unit	1	2.87		
36	Site response characterization equipment	1	4.03	Dr.K. Muthukkumaran kmk@nitt.edu Phone: 0431 - 2503168	Geo Tech Lab / Civil Dept
37	Static cone penetrometer, 30kN capacity, hand operated	1	2.56		
38	Plan table and accessories	10	2.83	Dr. NishaRadhakrishnan nisha@nitt.edu Phone:0431-2503162	Survey Lab / Civil Dept
39	Total station	2	4.30		
40	Digital level with stave	2	2.52		
		<b>Total</b>	<b>21.76</b>		

#### Computer Application

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
41	Dual Intel Xeon E5645 processor (2.40 GHz), 12MB Cache, 5.86 GT/s QPI, Turbo, HT, 6C or higher	3	5.93	Dr.(Mrs).B.Janet Janet@nitt.edu Phone: 0431-2503741	Computer Lab / IT Center
		<b>Total</b>	<b>5.93</b>		

Computer Support Group					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
42	Dell PowerEdge R910 4U High-End Rack Servers, 4 x Intel Xeon E7-8837 2.66GHz, 24M Cache, 6.4 GT/s QPI, 64GB Memory RDIMM 1600Mhz DDR3, Integrated Dual 1000 NIC Gigabit Chassis, PERC H710 RAID Controller, 1GB NV Cache, 6x600GB, 10000 rpm Hot Plug SAS, Redundant Power supply (4+4)	2	19.96	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	CSG Server Room for Central Facilities
43	Dell PowerEdge R420 1U Entry Level Rack Servers, 2 x Intel Xeon E5-2440 2.4GHz, 15M Cache, 7.2 GT/s, 16GB Memory RDIMM 1600Mhz DDR3, Integrated Dual 1000 NIC Gigabit Chassis, PERC H710 RAID Controller, 512MB NV Cache, 3x600GB, 15000 rpm Hot Plug SAS, Redundant Power supply	10	25.80	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	CSG Server Room for Central Facilities
44	Dell Precision Workstations T1650N Intel Xeon Quad core 3.60Ghz, 8GB (2 x 4GB), 2 x 500GB HDD 1 GB NIVIDIA Quadro 2000, Dell Professional P2412H with 5 years warranty	22	23.65		Laboratory V (CAD / CAM)
45	MSC Software University MD FEA + Motion bundle	150 user	7.89		Laboratory V (Graphics & CAD/CAM) & Academic Departmental Labs at NITT on request
	Matlab and Simulink R2013a	5	5.03		Laboratories III & V (Graphics & CAD/CAM) & Academic Departmental Labs at NITT on request
	Ansys 14.5 (upgrade from 14.x) for 1 year AMC valid up to December 31, 2013	55	2.74	All Laboratories in CSG & Academic Departmental (Civil, Mechanical, Production, MME Laboratories on request)	
	Microsoft Campus Agreement Renewal	150	10.19	Laboratories, Faculty, Staff and Servers in CSG	
		<b>Total</b>	<b>95.26</b>		

Electrical & Electronics Engineering					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
46	Four channel Digital storage oscilloscope. Model No: Agilent DSOX3034A	6	21.06	Dr.G.Saravanailango gsilango@nitt.edu Phone: 0431-2503259	Power Electronic Lab / 5 Group of Faculty / EEE Dept
47	Voltage probe (100:1)	7	2.01		4 Group of Faculty / EEE Dept
48	Current probe	14	4.74		9 Group of Faculty / EEE Dept
49	Power Quality / Clamp Meter	7	8.82		Power Electronic Lab / 6 Group of Faculty / EEE Dept
50	Texas DSP Processor TMS320 F28335 eZdsp starter kit	4	2.73	Dr. V. Sankaranarayanan sankariitb@gmail.com Phone : 0431-2503268	4 Group of Faculty / EEE Dept
51	Electronic work tables	10	3.36		Control & Instrumentation Lab / EEE Dept
52	DC Compound machine coupled with 3 phase synchronous machine - salient pole rotor type	2	2.67	M.VenkataKirthiga mvkirthiga@nitt.edu Phone: 0431-2503263	Machines Lab / EEE Dept
53	FPGA Board	9	3.75	Dr.S. Moorthi srimoorthi@nitt.edu Phone : 0431-2503267	5 Group of Faculty / EEE Dept
54	Digital Storage Oscilloscope -Low end	9	4.84		Power Electronic Lab / 3 Group of Faculty / EEE Dept
55	Function Generator with Power Supply	20	2.25	Dr.P. Raja praja@nitt.edu Phone:0431-2503264	Power Electronic Lab / 6 Group of Faculty / EEE Dept
		<b>Total</b>	<b>56.23</b>		
Electronics & Communication Engineering					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
56	1GHz Mixed Signal 4+16 channel Oscilloscope + accessories	1	88.53	Dr.P.Muthuchidambaranathan nathan@nitt.edu Phone: 0431-2503	Wireless & Optical Communication Lab / Silver Jubilee Building
57	Embedded Camera System with video processor and SDK	1	2.00	Dr.P. Palanisamy Palan@nitt.edu Phone: 0431-2503312	Research Lab / Silver Jubilee Building
58	DSP processor with SDK	6	8.00		
59	Palm vein scanner and reader	1	6.05		
		<b>Total</b>	<b>104.58</b>		

Instrumentation & Control Engineering					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
60	Function Generator	37	5.58	Dr.A.Ramakalyan Ramakalyan@nitt.edu Phone: 0431-2503357	Control Lab / ICE Dept.
61	D.S.O + probes and other Accessories	47	21.83		
62	Multimeters	55	5.43		
63	Data Acquisition System and NI DAQ cards	30	2.03	Dr.N.Sivakumaran nsk@nitt.edu Phone :0431-2503362	Instrumentation Virtual -Lab / ICE Dept.
64	NI ELVIS II + Circuit Bundle with accessories	4	5.93		
65	NI wireless sensor network platform	1	4.93		
66	Laser displacement sensor-100mm	1	4.45	Dr.K.Dhanalakshmi dhalak@nitt.edu Phone: 0431-2503350	Smart torcher Lab / ICE Dept.
67	Multifunction Codi tractor	1	2.45	Dr.B.Vasuki bvas@nitt.edu Phone:0431-2503350	Instrumentation Lab / ICE Dept.
		<b>Total</b>	<b>52.63</b>		
Mechanical Engineering					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
68	Data acquisition system for pressure, temperature, velocity, voltage and current with suitable sensors	1	7.50	Dr.S.Venkatachalapathy svc@nitt.edu Phone : 0431 -2503415	Heat & Mass Transfer Lab / Mechanical Dept
69	Universal testing machine	1	15.27	Dr.T. Ramesh Dr.N. Siva Shanmugam tramesh@nitt.edu nsiva@nitt.edu Phone: 0431-2503418 Phone: 0431-2503425	Strength of Material Lab / Science Block
70	Work station	2	3.96		CAD & Simulation Lab / Mechanical Dept
71	Coating thickness meter	1	2.49	Dr.S. Suresh ssuresh@nitt.edu Phone: 0431-2503422	Nano Lab / Mechanical Dept
		<b>Total</b>	<b>29.22</b>		

Metallurgical & Materials Engineering						
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With	
72	Lab VIEW software	1	10.76	Dr.S.P. KumareshBabu babu@nitt.edu Phone:0431-2503462	Foundry & Welding Engineering Lab / MME Dept	
73	Mineral Sieve Analyzer	1	4.11		Process Metallurgical Engineering Lab / MME Dept	
74	Jaw crusher	1	6.60		Corrosion Engineering Lab / MME Dept	
75	Salt spray chamber	1	9.02			
76	High Temperature furnace with MoSi2 heating element	1	11.15			
77	Corrosion Analyzer	1	12.45			
78	C- Ring Corrosion Tester	2	3.32			
79	C- Ring Corrosion Tester Control Panel	1	4.77			
80	Cu melting furnace & Thermocouples	1	4.47			Foundry Engineering Lab / MME Dept
81	Microscope and Image Capturing facility	1	6.50			
82	Disc Polishing Machine	6	4.11	Dr.N. Ramesh Babu nrb@nitt.edu Phone:0431-2503462	Metallography Lab / MME Dept	
83	Hot Mounting Press	2	1.80			
84	Metallurgical Microscope with image analyzer	6	12.88			
85	Automated Hydraulic press	1	4.51			
86	Surface roughness tester	1	2.57		Bio materials Lab / MME Dept	
87	Diffuse Reflectance Spectroscopy	1	10.65			
88	Fourier transform infra-red spectroscopy	1	9.72			
89	1700 Deg.C High Temperature Furnace	1	2.92		Ceramic Material Lab / MME Dept	
90	Planetary Ball Mill with Ceramic Vials	1	30.69			
91	Analytical balance with density kit	2	2.23		Dr.K. Siva Prasad ksp@nitt.edu Phone: 0431-2503466	AMP Lab / MME Dept
		<b>Total</b>	<b>155.23</b>			

Physics					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
92	Thermal evaporation unit	1	5.00	Dr.M.C.SanthoshKumar Santhoshmc@nitt.edu Phone: 0431-2503611	328- D Science Block
93	Steady state spectra fluorometer	1	17.98		
94	Thermal analyzer	1	4.90	Dr.J.Hemalatha hemalatha@nitt.edu Phone: 0431-2503608	Advanced Functional Materials Lab / Science Block
95	Probe sonicator	2	8.00		
96	Dielectric interface for existing AC impedance	1	14.00	Dr.A. Chandra Bose acbose@nitt.edu Phone : 0431 - 2503605	Nano Material Lab / Science Block
97	VASP software	1	3.00	Dr.N. Baskaran nbaski@nitt.edu Phone: 0431-2503606	Research Lab / Physics Annexe-117
		<b>Total</b>	<b>52.88</b>		
Production Engineering					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
98	HMT Lathes	1	42.01	Dr.C. Sathiya Narayanan csathiya@nitt.edu Phone: 0431-2503511	Workshop / Production Dept
99	Computer net working of Mechatronics Lab	1	2.60	Dr.S. PrasannaVenkatesan prasanna@nitt.edu Phone: 0431-2503514	Mechatronics Lab / Production Dept
		<b>Total</b>	<b>44.61</b>		



**List of equipment costing above 2 Lakhs purchased through plan fund 2013-2014**

**Architecture**

**UG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
100	Server	1	2	Prof.P.Gopalakrishnan gopal@nitt.edu Phone: 0431-2503564	Computer Lab / Architecture Dept
102	Portable Instrument for Measuring Environmental Data(with Data Loggers)	1	3.5	Prof.V.Ramprasad rampra@nitt.edu Phone: 0431-2503554	Science Lab / Architecture Dept
103	IES-Building Performance Analysis Software	1	4		Computer Lab / Architecture Dept
		<b>Total</b>	<b>9.5</b>		

**CECASE**

**RESEARCH**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
104	Multichannel Potentiostat	1	37.60	Dr.S.Natarajan Dr.M.Matheswaran sn@nitt.edu matheswaran@nitt.edu Phone: 0431-2503456 Phone: 0431-2503120	Temporarily installed in MME Annex building. Will be shifted to a permanent location later
105	Pulse Rectifier (0 - 40V)	1	15.62		
106	Vacuum & High Temp Tribometer	1	26.25	Dr.S.Natarajan Dr.M.Duraiselvam sn@nitt.edu durai@nitt.edu Phone: 0431-2503456 Phone: 0431-2503509	Yet to arrive / MME Annex building.
107	Metallography Kit	1	30.00	Dr.S.Natarajan Dr.S.P. KumareshBabu sn@nitt.edu babu@nitt.edu Phone: 0431-2503456 Phone:0431-2503462	
108	High Temp Impedance Analyzer	1	27.85		
		<b>Total</b>	<b>137.32</b>		

**CEESAT**

**PG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
109	Online water quality analyzer	1	7.98	Dr.(Mrs).M.Premalatha latha@nitt.edu Phone: 0431-2503108	Bio-Energy Lab / CEESAT Dept
110	UV trans illuminator	1	5.00		Thermal Lab / CEESAT Dept
111	Anaerobic chamber	1	13.25		
112	Refrigerated shaker	1	5.00		

113	Nox&Sox detector	1	3.00	Dr.(Mrs).M.Premalatha latha@nitt.edu Phone: 0431-2503108	Yet to be Installed / CEESAT Dept
114	Aluminum Solar Reflector Sheets	100	2.82		
		<b>Total</b>	<b>37.05</b>		
<b>RESEARCH</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
115	BOD incubator and analyzer	1	2.28	Dr.(Mrs).M.Premalatha latha@nitt.edu Phone: 0431 - 2503118	Environmental Lab / CEESAT Dept
116	Reverse transcriptase-polymerase chain	1	11.47		Thermal Lab / CEESAT Dept
117	Flash point, Fire point analyzer	1	5.24		
118	Viscosity Analyzer	7	6.21		
		<b>Total</b>	<b>25.20</b>		
<b>Chemical Engineering</b>					
<b>UG MODERNIZATION</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
119	Digital balance	2	2.00	Dr.M. Arivazhagan ariva@nitt.edu Phone: 0431-2503111	Technical Analysis Lab / Chemical Dept
120	Analysis of water-1 (TDS, TSS...)	5	9.98		
121	Analysis of oil and soap	2	7.26		
122	Analysis of cement, fertilizer	2	12.74		
123	Potentiometric Titrator	1	7.56		
124	Batch Adsorption unit	1	2.00	Dr. N. Anantharaman naraman@nitt.edu Phone: 0431-2503103	Mass & Heat Transfer Lab / Chemical Dept
125	Diffusion Analyzer	1	2.00		
126	Air Drying Unit	1	2.00		
		<b>Total</b>	<b>45.54</b>		
<b>PG MODERNIZATION</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
127	High end Workstation with Digital Colour Monitor	1.00	25.00	Dr. J. Sarat Chandra Babu sarat@nitt.edu Phone: 0431 - 2503107	Computer Lab / Chemical Dept
		<b>Total</b>	<b>25.00</b>		
<b>RESEARCH</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
128	COD analyzer	1	6.55	Dr. M. Matheswaran matheswaran@nitt.edu Phone: 0431-2503120	Environmental Lab / CEESAT Dept

129	Double beam UV Vis Spectrophotometer	2	13.98	Dr. A. Arunagiri aagiri@nitt.edu Phone: 0431- 2503114	Yet to be Installed / Chemical Dept
130	Light Microscope with Camera	1	4.96	Dr.M. Arivazhagan ariva@nitt.edu Phone: 0431-2503111	Technical Analysis Lab / Chemical Dept
131	BOD incubator	1	2.50	Dr. M. Matheswaran matheswaran@nitt.edu Phone: 0431-2503120	Environmental Lab / CEESAT Dept
132	Water purifier	1	5.00	Dr. M. Perumalsamy mpsamy@nitt.edu Phone: 0431 - 2503112	Bio- Separation Lab / Chemical Lab
133	Digital refractometer	1	4.00		
134	COD and BOD Analyzer kit	1	3.28		
135	Laminar flow hood chamber	3	3.03	Mr. N. Samsudeen samsudeen@nitt.edu Phone: 0431-2503119	Research Lab / Chemical Dept
136	Online multiparameter analyzer	1	3.59		
137	Solar Panel	15	3.30	Dr. J. Sarat Chandra Babu sarat@nitt.edu Phone: 0431 -2503107	Yet to be Installed / Chemical Dept
138	Analytical balance – 4 digits	4	2.16	Dr. (Mrs).K.M.MeeraSheriffa Begum meera@nitt.edu Phone: 0431- 2503109	Mass & Heat Transfer Lab / Chemical Dept
139	Freeze dryer	1	5.98		
140	Roto evaporator	1	2.99		
141	Autoclave	1	3.75	Dr. G. Arthanreeswaran arthareeg@nitt.edu Phone: 0431-2503118	Yet to be Installed / Chemical Dept
142	Ultra Centrifuge	1	8.30	Dr. P. Sivashanmugham psiva@nitt.edu Phone:0431-2503105	Chemical & Bio-Chemical Process Lab / Chemical Dept
		<b>Total</b>	<b>73.37</b>		

### Chemistry

#### UG MODERNIZATION

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
142	Millipore Water Purification System	1	4.80	Dr. R. Karvembu kar@nitt.edu Phone: 0431-2503636	First floor / Science Block
143	Analytical Balance (4 Digit)	3	2.10		Chemistry Stores / Admin Block
144	Tafel Polarization Experimental Setup	10	2.00	Dr.(Mrs).L. Cindrella Cind@nitt.edu Phone: 0431-2503634	Chemistry Stores / Admin Block
		<b>Total</b>	<b>8.90</b>		

PG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
145	Double beam UV-visible spectrophotometer (200-1100nm)	1	2.62	Dr. A. Sreekanth sreekanth@nitt.edu Phone: 0431-2503642	PG Lab / Science Block
146	Digital Polarimeter	1	4.75		
		<b>Total</b>	<b>7.37</b>		
RESEARCH					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
147	TOC analyzer	1	14.37	Dr.(Mrs).S.Velmathi velmathis@nitt.edu Phone: 0431-2503640	1st floor / Science Block
148	Nitrogen, hydrogen, zero air gas generators	1	11.24		
149	High temperature furnace	1	4.10		
150	Cyclic Voltameter	1	8.13		
151	FAR IR Spectrometer	1	21.12	Dr. A. Sreekanth sreekanth@nitt.edu Phone: 0431-2503642	CEESAT Building
152	QUAVA mini reactor	1	11.50	Dr. S. Anandan sanand@nitt.edu Phone: 0431-2503639	Instrumentation Room / Admin Block
153	DC single channel power supply	1	2.75	Dr.(Mrs.)L.Cindrella cind@nitt.edu Phone: 0431-2503616	Yet to be Installed / Science Block
154	Rotating ring disc electrode	1	4.98		
155	Glove box	1	25.89	Dr. R. Karvembu kar@nitt.edu Phone: 0431-2503636	
		<b>Total</b>	<b>104.08</b>		
Civil Engineering					
UG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
156	Bench top DO meter	2	3.28	Dr. R. Gandhimathi rgmathi@nitt.edu Phone: 0431-2503171	Environmental Lab / Civil Dept
157	Bench top turbidity meter	2	2.42		

158	Digital Incubator temperature controller and digital timer	2	2.58	Dr. R. Gandhimathi rgmathi@nitt.edu Phone: 0431-2503171	Environmental Lab / Civil Dept
159	COD digester	3	2.68		
160	Overhead stirrer	2	2.26		
161	Automated Cell Counter	1	3.00		
162	Consolidation Equipment	1	5.00		
163	Shaking Water Bath	1	2.00		
164	UCC testing apparatus	2	6.00	Dr.K.Muthukumaran kmk@nitt.edu Phone: 0431-2503469	Geo Tech Lab / Civil Dept
165	Direct shear test apparatus	2	10.37		
166	Soil Resistivity Equipment	1	3.00		
167	Inclinometer	1	4.00		
168	Ball mill-20kg	1	2.00	Dr. J. KarthiKeyan jk@nitt.edu Phone: 0431-2503195	SM & Structure Lab / Civil Dept
169	Pan Mixer	1	5.25		
170	Francis Turbine(TT)	1	3.50	Mrs. R. Manjula manju@nitt.edu Phone: 0431-2503167	Fluid Mechanics Lab / Civil Dept
171	Pelton Turbine(TT)	1	3.00		
172	Theodolite	20	2.38	Dr. NishaRadhakrishnan nisha@nitt.edu Phone: 0431-2503162	Survey Laboratory / Civil Dept
173	Compaction testing apparatus	2	6.00	Dr.K.Muthukumaran kmk@nitt.edu Phone: 0431-2503469	Yet to be Installed / Civil Dept
174	CBR test apparatus	2	5.00		
175	Triaxial shear apparatus	1	16.84		
176	Large scale direct shear test	1	4.01		
177	Rebound hammer	2	2.30	Dr. J. KarthiKeyan jk@nitt.edu Phone: 0431-2503195	Yet to be Installed / Civil Dept
178	Pull off bond strength tester	1	3.31		
179	80l Concrete pan mixer	1	5.50		
		<b>Total</b>	<b>105.68</b>		

PG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
180	Ion chromatography	1	16.81	Dr. R. Gandhimathi rgmathi@nitt.edu Phone: 0431-2503172	Environmental Lab / Civil Dept
181	UV-VISBLE Spectrophotometer	1	8.68		
182	Cube (up gradation)	5	8.17	Dr.S. Moses Santha Kumar moses@nitt.edu Phone: 0431-2503156	Transportation Lab / Civil Dept
183	ArcGIS software(up gradation)	3	6.45		
184	Horizontal shake table with eccentric cam (Harmonic base motion)	1	4.00	Dr.C. Natrajan. natraj@nitt.edu Phone: 0431-2503 156	Dynamics Lab / Civil Dept
185	Horizontal shake table with cylindrical (non harmonic base motion)	1	4.50		
186	Vertical shake table	1	4.00		
187	Experimental models consisting of 12 models	1	4.00		
		<b>Total</b>	<b>56.61</b>		
RESEARCH					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
188	Gas Chromatography	1	13.18	Dr. R. Gandhimathi rgmathi@nitt.edu Phone: 0431-2503171	Environmental Lab / Civil Dept
189	TN Analysis Module For TOC Analyzer	1	6.41		
190	Solid analysis module of TOC Analyzer	1	8.00		
191	Atomic Absorption Spectrophotometer (Graphite furnace)	1	39.02		
192	Integrated Equipment system for Dynamic Characterization of Structural Elements	1	37.99	Dr. K. Baskar kbaskar@nitt.edu Phone: 0431-2503161	Yet to be installed / Civil Dept
193	Actuator for SSI study	1	27.85	Dr.K.Muthukumaran kmk@nitt.edu Phone: 0431-2503469	GeoTech Lab / Civil Dept
		<b>Total</b>	<b>152.29</b>		

<b>Computer Science Engineering</b>					
<b>UG MODERNIZATION</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
194	High end server	1	10.00	Dr.E. Siva Shankar sivashankar@nitt.edu Phone: 0431-2503213	B-Tech Lab / IT Center
		<b>Total</b>	<b>10.00</b>		
<b>Computer Application</b>					
<b>PG MODERNIZATION</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
195	Type-4 48 Port, Managed Layer 3 Gigabit Switch	3	4.64	Dr.A.Vadivel vadi@nitt.edu Phone: 0431-2503737	Computer Lab / IT Center
196	4 socket server with 4*Intel xenon e7-8837 2.66ghz, 24m cache,6.40 get/s qpi (8 core) processor or higher (technical specification as per page 14 &15)	2	19.96		CA Faculty Block ( 1st Floor ) Lyceum / CA Dept
197	Dell OptiPlex 990pc + 19" LCD monitor +512 MB Radeon graphics card + 4 GB additional memory	20	9.20	Ms. R. Eswari eswari@nitt.edu Phone: 0431-2503744	CA Research & Project Lab / CA Dept
		<b>Total</b>	<b>33.80</b>		
<b>Computer Support Group</b>					
<b>S.No</b>	<b>Name of the Equipment</b>	<b>Quantity</b>	<b>Cost of Equipment (In Lakhs)</b>	<b>Initiating Faculty / Phone / E-mail</b>	<b>Installed in Location / Available With</b>
198	Dell Optiplex 9020SFF <b>Personal Computers</b> 4th Generation Intel Core i7-4770 Processor (3.4GHz, 8M, 84W), 16GB 1600MHz DDR3 Non-ECC, 1TB 7200 rpm 3.5" HDD, 1GB DDR3 AMD Radeon Grapics Card Dell Ultrasharp 24" Monitor	54	32.67	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	Laboratory III (Graphics) – 28  Director - 2  Laboratory VI (R&D) - 24
199	Dell Power Edge R420 Entry Level 1U Rack Servers, 2 x Intel Xeon E5-2440 2.4GHz, 15M Cache, 7.2 GT/s, 32GB Memory RDIMM 1600Mhz DDR3, Integrated Dual 1000 NIC Gigabit Chassis, PERC H710 RAID Controller, 512MB NV Cache, 3x600GB, 15000 rpm Hot Plug SAS, Redundant Power supply	10	27.21		CSG Server Room for Central Facilities

200	Dell PowerEdge R520 Mid-Range 2U Rack Servers, 2 x Intel Xeon E5-2440 2.4GHz, 15M Cache, 7.2 GT/s, 64GBMemory RDIMM 1600Mhz DDR3, Integrated Dual 1000 NIC Gigabit Chassis, PERC H710 RAID Controller, 1GB NV Cache, 8x600GB 10000 rpm Hot Plug SAS, Redundant Power supply	5	17.97	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	CSG Server Room for Central Facilities
201	Dell PowerEdge R910 High-end 4U Rack Server, 4 x Intel Xeon 4 Socket Xeon, 7.2 GT/s, 64GB Memory RDIMM 1600Mhz DDR3, Integrated Dual 1000 NIC Gigabit Chassis, PERC H700 RAID Controller, 7x600GB 10000 rpm Hot Plug SAS, SAS HBA 6Gbps External Controller Card Redundant Power supply	1	10.11		
202	ACER Veriton M200 Personal Computers Intel Core i3 Entry level 3220 3.30GH,z 6GB DDR3 1600MHZ, 1x500GB 7200rpm SATA HDD 1GB HD7470 Graphics Card with ACER 19" Square LED Monitor	42	15.78		Laboratory IV (User) - 42
203.	Wireless Access Controller consists of HPRO0035 J4859C Procurve HPRO0034 J8713A Procurve1500W HPRO0062 J9370A MSM765ZI HPRO0019 J9371A MSM 760/765 40AP HPPRO0207 J9637A HP 12P GIG T PoE, HPPRO0169 J9642A HP E5406 ZL Switch	3	12.28	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	CSG-Server Room – [Wi-Fi Connectivity for the entire Hostels]



204	Wireless Indoor Access Points HPPRO0327 HP MSM466 Dual Radio + HPPRO0328 HP Indoor Omni 2.5/6dbi Antenna HPPRO0237 HP MSM460 Dual Radio	MSM 460 - 414  MSM 466 - 125	58.62	<p>Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806</p>	Hostel Name	MSM 460	MS M 466	MS M46 6R																																						
	Opal A	18	0		0																																									
Opal B	12	0	0																																											
Opal C	12	0	0																																											
Opal D	16	0	0																																											
Opal E	16	34	5																																											
Agate	18	0	1																																											
Coral	13	1	1																																											
Diamond	14	0	1																																											
Emerald	18	0	1																																											
Garnet ABC	36	18	3																																											
Amber AB	32	16	2																																											
Aquamarine	32	16	2																																											
Jasper	16	8	1																																											
Jade	12	0	1																																											
Lapis	18	0	1																																											
Sapphire	18	0	1																																											
Ruby	18	0	1																																											
Topaz	18	0	1																																											
Pearl	18	0	1																																											
Zircon ABC	36	18	3																																											
205	Wireless Outdoor Access Points HPPRO0329 HP E- MSM 466-R Dual + HPPRO0362 HP Outdoor Omni 6dBI Antenna + HPPRO0363 HP Outdoor Omni 8dbi Antenna	28	8.98	<p>CSG-Server Room</p> <table border="1"> <thead> <tr> <th>Hostel Name</th> <th>qty</th> </tr> </thead> <tbody> <tr><td>Opal A</td><td>1</td></tr> <tr><td>Opal B</td><td>1</td></tr> <tr><td>Opal C</td><td>1</td></tr> <tr><td>Opal D</td><td>1</td></tr> <tr><td>Opal E</td><td>1</td></tr> <tr><td>Agate</td><td>1</td></tr> <tr><td>Coral</td><td>1</td></tr> <tr><td>Diamond</td><td>1</td></tr> <tr><td>Emerald</td><td>1</td></tr> <tr><td>Garnet ABC</td><td>3</td></tr> <tr><td>Amber AB</td><td>2</td></tr> <tr><td>Aquamarine</td><td>2</td></tr> <tr><td>Jasper</td><td>1</td></tr> <tr><td>Jade</td><td>1</td></tr> <tr><td>Lapis</td><td>1</td></tr> <tr><td>Sapphire</td><td>1</td></tr> <tr><td>Ruby</td><td>1</td></tr> <tr><td>Topaz</td><td>1</td></tr> <tr><td>Pearl</td><td>1</td></tr> <tr><td>Zircon ABC</td><td>3</td></tr> </tbody> </table>	Hostel Name	qty	Opal A	1	Opal B	1	Opal C	1	Opal D	1	Opal E	1	Agate	1	Coral	1	Diamond	1	Emerald	1	Garnet ABC	3	Amber AB	2	Aquamarine	2	Jasper	1	Jade	1	Lapis	1	Sapphire	1	Ruby	1	Topaz	1	Pearl	1	Zircon ABC	3
Hostel Name	qty																																													
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Sapphire	1																																													
Ruby	1																																													
Topaz	1																																													
Pearl	1																																													
Zircon ABC	3																																													
206	HP-IMC – NMS Software for the HP Controller and Wi-Fi Access Points	1	3.80																																											
207	24 Port 1G Managed Layer 2 Switch [PoE] - Extreme	30	10.67																																											
208	24 Port 1G Backbone Managed Switch – Extreme	5	15.79																																											
	48 Port 1G Backbone Managed Switch – Extreme	6	3.10																																											
	48 Port 10G Back bone Managed Switch – Extreme	1	0.87																																											
	24 Port 1G Managed Layer2 Switch – Extreme [24 port]	10	2.51																																											
		10	20.04																																											
				For providing networking for Hostel Wi-Fi																																										

	48 Ports 1000 BaseLine card for the Extreme Make Core Switch - Extreme	1	5.04	Dr.S.R. Balasundaram blsundar@nitt.edu Phone : 0431 - 2503806	CSG Server room – Core Switch
209	Passive Components – Fiber Optic Cable, patch cords, LIU, Ethernet Cable (CAT6), I/Os, Patch cords	LS	20.70		Fiber Optic Cable & Accessories – Connectivity to Hostels Ethernet – Academic Departments
210	Network Racks (6U,9U,12U,15U,22U, 42U)	LS	5.00		Hostels & Academic Departments
211	Ansys 15.x (upgrade from 14.5) for with 1 year AMC valid up to December 31, 2014	55	2.74		All Laboratories in CSG & Academic Departmental (Civil, Mechanical, Production, MME Laboratories)
	Matlab and Simulink R2014a with 1 year AMC	10	4.77		CSG Laboratories (Lab1, Lab2, Graphics & CAD/CAM) and Academic Departmental Labs on request
	Catia v6 R2013x Catia V6 PLM (UDK) (upgrade from v5 6R2012) with 1 year AMC	15	3.70		Laboratories III & V (Graphics & CAD/CAM) & Academic Departmental Labs on request
	Delmia v6 R2013xDelmia Manufacturing Master (UMD) (upgrade from v5 6R2012) with 1 year AMC	5	2.70		
	Microsoft Campus Agreement Renewal for 2014 (Windows, Office, Server OS)	250	10.02		Laboratories, Faculty, Staff and Servers in CSG
	<b>Total</b>		<b>295.07</b>		

**Electrical & Electronics Engineering**

**UG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
212	Special Machine Set-ups	4	2.00	Dr.S.Senthil Kumar skumar@nitt.edu Phone: 431-2503261	Power Electronic Lab / EEE Dept
213	VSI Inverter	7	4.07		4 Group of Faculty / EEE Dept
214	5KW Mono-Crystalline PV Modules	20	2.50	Dr.G.Saravanailango gsilango@nitt.edu Phone: 0431-2503259	Solar Renewable Energy Lab / EEE Dept
215	Hybrid Inverter	2	5.00		Hybrid Energy Systems Lab / EEE Dept
216	FPGA	4	3.75		4 Group of Faculty / EEE Dept
	<b>Total</b>		<b>17.32</b>		

RESEARCH					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
217	Synthetic/Electronic Loads (110V, 5KW)	1	4.30	Dr.G.Saravanailango gsilango@nitt.edu Phone: 0431-2503259	Solar Lab / EEE Dept
218	Ultra Capacitors	1	2.37		Research Lab / EEE Dept
219	Fluke -434-Series Power Analyzer	2	9.00		2 Group of Faculty / EEE Dept
220	Digital Multimeter	24	3.60	Dr.S. Moorthi srimoorthi@nitt.edu Phone: 0431-2503267	6 Group of Faculty / EEE Dept
221	FPGA Board with accessories	19	9.04		5 Group of Faculty / EEE Dept
222	Three phase Power Quality Analyzer	4	16.08		4 Group of Faculty / EEE Dept
223	DC Power Supply Units (Rectifier) with variable output	1	8.81	Dr.M.P. Selvan selvanmp@nitt.edu Phone:431-2503262	Research Lab / EEE Dept
224	ETAP	1	14.20		Computer Lab / EEE Dept
225	PSCAD	1	3.96		
226	DSO 4 channel with accessories	1	4.02	Dr. K. Sundareswaran Sundareswaran@nitt.edu Phone:0431-2503255	2 Group of Faculty / EEE Dept
227	IGBT Module	54	3.78		
228	Dspace	2	11.18	Dr. S. Arul Daniel Daniel@nitt.edu Phone:0431-2503256	2 Group of Faculty / EEE Dept
229	DSO 4 Channel (100 MHz)	3	2.57	Dr.P. Raja praja@nitt.edu Phone:0431-2503264	
230	Fluke power quality and Energy analyzer with voltage and current probes	1	4.20	Dr. P.Srinivasa Rao Nayak Psnayak@nitt.edu Phone:0431-2503269	Stores / EEE Dept
231	High end workstations with I/O interfaces	3	4.50	Dr. S.Sudha sudha@nitt.edu Phone: 0431-2503267	Research Lab / EEE Dept
232	NI DAC card,16 ADC,DAC,GPS receiver( Compact RIO data Acquit ion Card System ADC(V &l), DAC & GPS receiver	1	14.50	Dr.M. JayaBarahthi Reddy jbreddy@nitt.edu Phone:0431-2503270	Research Lab / EEE Dept
233	Three phase Matrix Converter	1	3.50	Dr.S.Senthil Kumar skumar@nitt.edu Phone: 0431-2503261	Research Lab / EEE Dept
234	Power Quality Analyzer	1	2.14	Dr. S.P.Simon sishajpsimon@nitt.edu Phone:0431-2503265	Research Lab / EEE Dept

235	Regulated Power Supply	38	3.15	Dr.P. Raja praja@nitt.edu Phone: 0431-2503264	6 Group of Faculty / EEE Dept
236	Three-Phase Voltage Source Converter Module	8	4.80	S.Mageshwari mageshwari@nitt.edu Phone: 0431-2503260	5 Group of Faculty / EEE Dept
237	Current Probe	10	3.55		
238	Real Time Controller Board	1	14.77	Dr.S.Senthil Kumar skumar@nitt.edu Phone: 0431-2503261	Yet to be Installed / EEE Dept
239	Solar Array Simulator	1	7.49		
240	NI Data Acquisition module (Chasis & measurement unit)	1	3.00	Dr. V. Sankaranarayanan sankariitb@gmail.com Phone: 0431-2503268	
		<b>Total</b>	<b>158.51</b>		

**Electronics & Communication Engineering**

**UG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
241	WRAP v3 kits & accessories	2	9.00	Dr. P.Muthuchidambaranathan nathan@nitt.edu Phone: 0431-2503309	Wireless & Optical Communication Lab / Silver Jubilee Building
242	S-band MIC trainer KIT	10	19.64	Dr. S.Raghavan raghavan@nitt.edu Phone: 0431-2503305	Yet to be Installed
243	CST Microwave Studio	1	4.99		Motorola Lab / IT Center
244	NI ELVIS BOARD and LAB VIEW software ( 30 Licenses)	30	99.00	Mrs. R.K.Kavitha rkavitha@nitt.edu Phone: 0431 - 2503322	Electronics & Device Lab / Silver Jubilee Building
245	Software: Mathematics	1	2.62	Dr. P. Palanisamy Palan@nitt.edu Phone: 0431-2503312	Research Lab / Silver Jubilee Building
		<b>Total</b>	<b>184.25</b>		

**PG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
246	OPTIWAVE software	1	5.75	Dr.D. Sirramkumar srk@nitt.edu Phone: 0431-2503311	Research Lab / Silver Jubilee Building
		<b>Total</b>	<b>5.75</b>		

Humanities					
UG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
247	Language lab software	1	8.60	Dr.V. Vinod Balakrishnan vinod@nitt.edu Phone: 0431-2503694	Computer Lab / CSG Annexe (Octagon)
		<b>Total</b>	<b>8.60</b>		
Instrumentation & Control Engineering					
UG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
248	NI ELVIS BOARD and LAB VIEW software ( 15 Licenses)	15	49.30	Ms.V.Sridevi sridevi@nitt.edu Phone: 0431-2503350	Bio-Medical Lab / ICE Dept
		<b>Total</b>	<b>49.30</b>		
RESEARCH					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
249	Biomedical Kit	1	5.00	Dr.N.Sivakumaran nsk@nitt.edu Phone :0431-2503362	Bio-Medical Lab / ICE Dept
		<b>Total</b>	<b>5.00</b>		
Mechanical Engineering					
UG MODERNIZATION					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
250	Single cylinder diesel engine	1	3.95	Dr. Anand Dr. V. Arul MozhiSelvan anandachu@nitt.edu, arulmozhi@nitt.edu. Phone: 0431-2503423 Phone: 0431-2503417	M-6 Thermal Lab / Mechanical Dept
251	Multi cylinder diesel engine	1	8.83		
252	Multi cylinder petrol engine	1	6.72		
253	Junkers Gas calorimeter	1	2.00		
254	Bomb calorimeter	1	11.96		
255	Smoke opacity meter	1	18.15		
256	Five gas analyzer	1	19.94		
257	Thermoelectric Refrigeration/ Heat Pump Test Rig	1	7.82	Dr.V.Mariappan vmari@nitt.edu Phone: 0431-2503420	RG & AC Lab / Mechanical Dept
258	Mini Ice plant Test rig about 20kg per day Capacity	1	2.50		
259	Automobile(Car) Conditioning Test Rig	1	2.00		
260	Sectional Cut models for Compressors	1	2.00		

261	Laser scan micrometer	1	5.96	Dr. K.R. Balasubramanian krbala@nitt.edu Phone: 0431-25034019	Metrology Lab / Mechanical Dept
262	Microscope with image analysis system	1	3.35		
263	Floating Carriage Micrometer	1	3.00		
264	Demonstration of Francis turbine	1	4.46	Dr.S.Suresh ssuresh@nitt.edu Phone: 0431-2503422	Yet to be Installed / Mechanical Dept
		<b>Total</b>	<b>102.64</b>		

**RESEARCH**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
265	Micro Wire Cut EDM	1	20.90	Dr.T. Ramesh Dr. N. Siva Shanmugam tramesh@nitt.edu nsiva@nitt.edu Phone: 0431-2503418 Phone: 0431-2503425	SM Lab / Science Block
266	Cold Metal Transfer	1	23.98		Automobiles Lab / Mechanical Dept
267	Adhesion Tester	1	2.13	Dr.S.Suresh ssuresh@nitt.edu Phone: 0431-2503422	Nano Lab / Mechanical Dept
268	Surface Roughness Gauge	1	4.86		
269	Abrasive cutting machine	2	4.72		
270	Disc Polishing Machine	1	2.05		
271	PID controller	1	3.76		
272	Low energy Ball mill	1	4.20		
273	Accessories for vibration analyzer	1	3.00	Dr. K.R. Balasubramanian krbala@nitt.edu Phone: 0431-25034019	Metrology Lab / Mechanical Dept
		<b>Total</b>	<b>69.60</b>		

**Metallurgical & Materials Engineering**

**UG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With	
274	Accelerated corrosion chamber	1	22.48	Dr.S.P. KumareshBabu babu@nitt.edu Phone: 0431-2503462	Corrosion Engineering Lab / MME Dept	
275	Four digit accuracy micro weighing balance	4	9.93			
276	Disc polishing machine	2	4.00			
277	3 dimensional diamond sample cutter	1	11.79		Foundry Engineering lab / MME Dept	
278	Fork lift (one, two, three to five ton capacity)	3	9.34			
279	Tool grinder	2	3.58			Mechanical Testing Lab / MME Dept
280	Multitask welding power source	1	24.57			Welding Engineering Lab / MME Dept

281	Gas Cylinders for welding	10	21.22	Dr.S.P. KumaresHBabu babu@nitt.edu Phone: 0431-2503462	Welding Engineering Lab / MME Dept	
282	Software for quantitative metallography	1	9.10			
283	Automated Microstructure sample polisher	1	35.89			
284	Simultaneous/Continuous thermal analyzer system	1	44.37		Dr.S.P. KumaresHBabu babu@nitt.edu Phone: 0431-2503462	Process Metallurgy Lab / MME Dept
285	Bomb calorimeter	1	7.00			
286	Air Compressor unit	1	6.50			
287	Rotaryvacuum casting unit	1	8.29			
288	Moisture & oil free air delivery system	1	4.00	Dr.S.P. KumaresHBabu babu@nitt.edu Phone: 0431-2503462	Yet to be Installed / MME Dept	
289	Ferritoscope	1	6.28			
290	Deminerlizer unit	1	8.69			
291	Electrolytic etching & polishing unit	1	16.08			
292	Scratch tester	1	7.53			
293	BHN/ VHN tester	1	2.13	Dr.B.RaviSankar brs@nitt.edu Phone:0431-2503460	Mechanical testing Lab / MME Dept	
294	Formability tester	1	20.03		Yet to be Installed / MME Dept	
295	Modulus measurement unit	1	2.28			
296	Shaper machine	1	15.00	Dr.S.Muthukumaran smuthu@nitt.edu Phone: 0431-2503469	Mechanic Shop / MME Dept	
297	Muffle Furnaces	1	19.95	Dr.S. Kumaran kumar@nitt.edu Phone: 0431-2503482	Heat Treatment Lab / MME Dept	
298	Glove Box	1	3.00		Powder Metallurgy Lab / MME Dept	
		<b>Total</b>	<b>355.32</b>			

**Physics**

**UG MODERNIZATION**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
299	Half shade Polari meter	20	2.00	Dr.M. Ashok ashokm@nitt.edu Phone: 0431-2503610	Nano Materials Lab Ground Floor / Science Block
300	Spectrometer	20	2.00		
301	Optical fiber characterization set up	20	8.72		
302	Solar simulator source	1	7.31		
303	Programmable Ultrasonic generator	1	2.41		
304	Digital multimeter	30	3.00		

305	Gm.Counter	4	3.59	Dr.R.Nagalakshmi nagalakshmi@nitt.edu Phone:0431-2503615	PG Lab / Science Block
		<b>Total</b>	<b>29.03</b>		
<b>PG MODERNIZATION</b>					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
306	Extractor enclosure with bisphenol 'A' lining	14	22.40	Dr. S. Manivannan ksmani@nitt.edu Phone: 0431-2503616	Yet to be Installed / Science Block
307	Source measurement unit	1	7.78		
308	High resolution multimeter	1	5.18		
309	Laser source for heating	1	8.82		
310	CRO with AFO	4	3.40	Dr.R.Nagalakshmi nagalakshmi@nitt.edu Phone: 0431-2503615	Yet to be Installed / Science Block
311	Boroscope	1	5.00	Dr.R.JustinJoseyphus rjustinj@nitt.edu Phone: 0431-2503614	NDT Lab / Science Block
		<b>Total</b>	<b>52.58</b>		
<b>RESEARCH</b>					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
312	Fiber optics absorption spectrometer	1	4.93	Dr.D. Sastikumar sasti@nitt.edu Phone: 0431-2503604	Ground Floor / Science Block
313	Vibration free table	1	4.45		
314	Optical power meter	1	2.21		
315	Laser Raman Spectrometer (Portable)	1	11.92	Dr.M. Ashok ashokm@nitt.edu Phone: 0431-2503610	
316	Spray dryer unit	1	5.93		
317	Table Top High Resolution Film thick measuring instrument	1	5.00	Dr. M.C. SanthoshKumar Santhoshmc@nitt.edu Phone: 0431-2503611	SIF- Lab L3 / Science Block
318	SILAR Coating Unit	1	2.75		328-D / Science Block
319	Cyclic Voltammetry	1	7.37	Dr.A. Chandra Bose acbose@nitt.edu Phone: 0431 - 2503605	Nanomaterial Lab / Science Block
320	Lock in amplifier	1	3.68	Dr.B. Karthikeyan bkarthik@nitt.edu Phone: 0431-2503612	Nanophotonics Lab / Science Block
321	Medea VASP	1	8.75	Dr.N. Baskaran nbaski@nitt.edu Phone: 0431-2503606	Research Lab / Physics Dept Annexe-117
322	High temperature furnace	1	4.48	Dr.R. Nagalakshmi nagalakshmi@nitt.edu Phone: 0431-2503615	Yet to be Installed / Science Block



323	Electro spinning unit	1	5.61	Dr.J. Hemalatha hemalatha@nitt.edu Phone: 0431-2503608	Yet to be Installed / Science Block
324	High energy Ball Mill	1	12.83	Dr.N.V. Giridhran giri@nitt.edu Phone: 0431-2503613	
325	Ultra centrifuge with refrigeration unit	1	3.15	Dr.S. Manivannan ksmani@nitt.edu Phone: 0431-2503616	
326	Automated four point probe	1	3.00		
327	Spin Coating unit	2	3.43		
328	Weighing Balance	2	2.24		
		<b>Total</b>	<b>91.73</b>		

**Production Engineering**

**RESEARCH**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	Initiating Faculty / Phone / E-mail	Installed in Location / Available With
329	Roller and Roller wear tester	1	26.73	Dr.Ing. M. Duraiselvam durai@nitt.edu Phone: 0431-2503509	Surface Engineering & Tribology Lab / Production Dept
330	Corrosion Wear Monitor	1	20.00		
331	Lubricated Wear Tester	1	12.92		
332	Laser Micromachining WorkStation	1	68.71		
333	Twin Screw Extruder	1	19.95	Dr.K. Panneerselvam kps@nitt.edu Phone: 0431-2503500	Composite Machines Lab / Production Dept
334	Computerized Tensometer	1	5.80		Yet to be Installed / Production Dept
335	Hydraulic Compression Modelling	1	4.93		
336	High-Speed Spindle for Multiprocess Micromachining	1	24.30	Dr.J. Jerald jerald@nitt.edu Phone: 0431-2503518	
		<b>Total</b>	<b>183.34</b>		

# Sophisticated Instrument Facility (SIF)

## PLAN 2012 - 2013

### CECASE

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
1	Hot Air Jet Erosion Equipment	1	10.42	3	Dr.S.Natarajan Dr.S.P. KumareshBabu sn@nitt.edu babu@nitt.edu Phone: 0431-2503456 Phone:0431-2503462
		<b>Total</b>	<b>10.42</b>		

### Chemical Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
2	Thermo gravimetric Analyzer (TGA)	1	17.63	2	Dr.K.N. Sheeba sheeba@nitt.edu Phone : 0431 - 2503113
3	Differential Scanning Calorimeter ( DSC)	1	19.57	3	
		<b>Total</b>	<b>37.20</b>		

### Chemistry

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
4	Luminescence spectrophotometer	1	54.04	5	Dr.V.M. Biju vmbiju@nitt.edu Phone: 0431-2503638
		<b>Total</b>	<b>54.04</b>		

### Mechanical Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
5	Plasma enhanced Hot filament Chemical vapour deposition machine	1	39.11	38	Dr.S. Suresh ssuresh@nitt.edu Phone: 0431-2503422
		<b>Total</b>	<b>39.11</b>		

### Metallurgical & Materials Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
6	VacuumMelting furnace	1	48.15	21	Dr.S.P. KumareshBabu babu@nitt.edu Phone:0431-2503462
7	Optical Profilometer	1	51.69	50	Dr.N. Ramesh Babu nrb@nitt.edu Phone:0431-2503462
8	Scratch Testing Unit	1	64.05	53	
9	X-ray Diffractometer	1	95.97	54	

10	Friction Stir Welding	1	75.57	48	Dr.K. Muthukumaran smuthu@nitt.edu Phone: 0431-2503469
11	Vacuum Arc Melting	1	11.19	64	Dr.K. Siva Prasad ksp@nitt.edu Phone: 0431-2503466
		<b>Total</b>	<b>346.62</b>		
<b>Physics</b>					
S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
12	RF Magnetron/ Thermal evaporation	1	20.62	12	Dr.M.C.SanthoshKumar Santhoshmc@nitt.edu Phone: 0431-2503611
13	UV visible- NIR	1	20.18	15	
14	Immersion C-scan UT setup	1	36.70	23	Dr.M. Ashok ashokm@nitt.edu Phone:0431-2503610
15	Liquid Nitrogen Plant	1	60.00	5	Dr.R.JustinJoseyphus rjustinj@nitt.edu Phone: 0431-2503614
16	Precision Multiferroic tester	1	71.79	17	Dr. N.V. Giridharan giri@nitt.edu Phone:0431-2503613
17	Nd: YAG laser/chamber	1	51.73	45	Dr.D. Sastikumar sasti@nitt.edu Phone :0431-2503604
		<b>Total</b>	<b>261.02</b>		

## Sophisticated Instrument Facility (SIF)

### PLAN 2013 - 2014

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
1	Laser Material Processing Workstation	1	300.00		Dr.-Ing. M. Duraiselvam Dr.S.Natarajan durai@nitt.edu cecace@nitt.edu Phone: 0431-2503509 Phone: 0431-2503456
		<b>Total</b>	<b>300.00</b>		

### Chemical Engineering

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
2	Hyphethenated TGA- GC-MS-TG-GCMS for Evolved gas analysis	1	131.52		Dr.J. Sarat Chandra Babu sarat@nitt.edu Phone: 0431-2503107
		<b>Total</b>	<b>131.52</b>		

**Chemistry**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
3	NMR Spectrometer	1	280.00		Dr.Mrs.S. Velmathi velmathis@nitt.edu Phone: 0431-2503640
4	Gas Chromatograph - Mass Spectrometer	1	44.63		Dr.R. Karvembu kar@nitt.edu Phone: 0431-2503636
		<b>Total</b>	<b>324.63</b>		

**Civil Engineering**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
5	Inductively Coupled Plasma Mass Spectrometry(ICP-MS)	1	84.90		Dr.S.T. Ramesh stramesh@Nitt.edu Phone: 0431-2503166
		<b>Total</b>	<b>84.90</b>		

**Physics**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
6	Atomic Force Microscope	1	99.86		Dr.J.Hemalatha hemalatha@nitt.edu Phone: 0431-2503608
7	Thermography Camera	1	74.42		Dr.D.Sastikumar sasti@nitt.edu Phone: 0431-2503604
8	Micro Raman Spectrometer	1	93.00		Dr. B. Karthikeyan bkarthik@nitt.edu Phone: 0431 - 2503612
9	Time resolved florescence spectrometer	1	87.19		
		<b>Total</b>	<b>354.47</b>		

**Production Engineering**

S.No	Name of the Equipment	Quantity	Cost of Equipment (In Lakhs)	File Ref No	Initiating Faculty / Phone / E-mail
10	Universal tribometer	1	127.00		Dr.-Ing. M. Duraiselvam durai@nitt.edu Phone: 0431-2503509
		<b>Total</b>	<b>127.00</b>		