



**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY**  
*Sector-16 C, Dwarka, Delhi-110078*

**MANDATORY DISCLOSURE**

1. Name and Address of the Institution : **Northern India Engineering College**  
: **FC-26 Shastri Park,**  
**New Delhi – 110 053.**  
Telephone: **011-39905900-99,**  
**011-22854633**  
Website Address: **www.niecdelhi.ac.in**  
E-Mail: [admn.niec@gmail.com](mailto:admn.niec@gmail.com),  
[niecnd.dir@gmail.com](mailto:niecnd.dir@gmail.com)
  
2. Name and Address of the Society/Trust & Chairman of the Society/Trust : **Babu Banarasi Das Educational Society**  
**Dr. Akhilesh Das Gupta**  
**55, Babu Banarasi Das Nagar,**  
**Purana Qila, Lucknow**  
Registration No. of Society / Trust : **1592-2012-2013**  
Telephone: **0522-2613917,**  
**3911000, 3911001**  
Website Address: **www.bbdesgi.ac.in**  
E-Mail : [bbdnitm@sancharnet.in](mailto:bbdnitm@sancharnet.in)
  
3. Name and Address of the Director/Principal of the Institute : **Prof. (Dr.) G.P. Govil**  
**C-2/174 Janakpuri,**  
**New Delhi – 110 058.**  
Telephone: **9811148012**  
E-Mail : [niecnd.dir@gmail.com](mailto:niecnd.dir@gmail.com)
  
4. Affiliated with GGSIP University; Since : **2003**

5. Details of the existing programmes

Sr. No.	Name of the Programme	Sanctioned Intake	Actual number of Total Students for Academic Year 2015-16
<b>B.Tech- 1<sup>st</sup> Shift</b>			
1	<b>CSE</b>	120	116
	<b>ECE</b>	120	118
	<b>MAE</b>	120	117
	<b>EEE</b>	120	117
	<b>IT</b>	120	118
	<b>CVE</b>	120+1	121
	<b>ME</b>	60	59
2.	<b>MCA</b>	60	39
3.	<b>MBA</b>	120	116
<b>B.Tech- 2<sup>nd</sup> Shift</b>			
4.	<b>CSE</b>	60	60
	<b>ECE</b>	60	57
	<b>MAE</b>	60	58
	<b>EEE</b>	60	58
	<b>IT</b>	60	59

6. Status of Land

<b>A</b>	<b>Land</b>	
(i)	Area of Land	<b>8.08 Acres</b>
(ii)	Ownership of land (Whether rented/leased/freehold)	Leased
(iii)	Prescribed Land use (whether conforming / non-conforming to Master Plan)	Conforming – Institutional –
(iv)	Land use Certificate with Registration No., Date & Authority	Institutional As per DDA Land Use Certificate No.F-12(45)2000/1L dated July 21, 2003 –
<b>B</b>	<b>Building</b>	
(i)	Whether Permanent/Temporary	Permanent
(ii)	Total Built-up area (in Sq Meters)	<b>23,636.67 Sq.mtr.</b>
(iii)	FAR Achieved (Built up area available per student as against prescribed by the University/Govt. Statutory Body)	B.Tech. - 6 MBA - 5 MCA - 4
(iv)	Total Built up area required as per norms for all programmes	<b>22,240 Sq.mtr.</b>
(v)	Sanctioned Building Plan from DDA / MCD / Govt. body	DDA

<b>C</b>	<b>Specifications of Accommodation</b>	No. Mtrs.)	Size (in Sq
(i)	Number of class/tutorial rooms	55/17	66/33
(ii)	Drawing Halls & Conference Room	04	132
(iii)	Laboratories (give details)	80	5280
(iv)	Audio Visual Laboratories	02	80
(v)	Library	01	850
(vi)	Administrative Block	01	2720
(vii)	Workshop	08	1600
(viii)	Computer Centre	01	150
(ix)	Toilets	55	825
(x)	Common Rooms	02	200
(xi)	Sports facilities (Indoor & Outdoor)	YES	
(xii)	Playground	YES	
(xiii)	Students Canteen	01	150
(xiv)	Hostel (Total Area/rooms/Number of seats etc.)	No	
(xv)	Any other facilities	Internet, Central Library, Edusat Lab, IIT Lectures, Training & Placement Cell, NPTEL Facility, Auditorium, Generator Room, Reprographics, Stationary Shop	

<b>D</b>	<b>Safety Measures</b>		
	<b>Parameters</b>	<b>Yes</b>	<b>No</b>
	Structural Safety Certificate of building of the Institute/College issued by Registered Architect	<b>Yes</b>	
	Whether Certificate indicating that the building is earthquake resistant has been obtained from local body (S. No. / Dated / Issuing Authority)	<b>Yes EE(B)SH-N/07/D-554 dated 3/4/2005 from MCD</b>	
	Availability of fire fighting devices at the institute and Fire Safety Certificate by Delhi Fire Service or concerned department of the state (NCR) where the Institute is located	<b>Yes F6/DFS/MS/2014/NDZ/632 dated 22.5.2014</b>	
	Use of basement for other than approved purpose, if any in the Institute		<b>No</b>

<b>Whether the NOC from the concerned department of Govt. of NCT, Delhi required (Yes / No)</b>	<b>Yes</b>
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**7. Status of Director / Faculty / Employee:**

Criteria	
Is the Director, as per norms of Statutory Body/UGC/University, is in position:	<b>Yes Statutory Body</b>
Name	<b>Prof. (Dr.) G.P. Govil</b>
Educational Qualifications	<b>B.E., M.Tech., Ph.D. (IITD)</b>
Experience	<b>44 Yrs. Out of which 30 Yrs. Teaching 08 Yrs. Research &amp; 06 Yrs. Industry</b>

**8. Status of Cadre Ratio & Teacher Student Ratio for all programmes:**

Programme / Course	Cadre Ratio	Teacher Student Ratio
B.Tech. – 1 <sup>st</sup> Shift	1:2	1:20
MBA	1:2	1:20
MCA	1:2	1:20
B.Tech. – 2 <sup>nd</sup> Shift	1:2	1:20

**9. Teaching Staff (programme wise as per list attached as Annexure ‘A’)**

Name	Designation	Qualification	Experience	Date of joining	Regular(R)/ Adhoc (A)/ Contract (C)/ Visiting (V)/ Guest (G)	Approved/ recognized by University (Yes/No)	Scale of pay, other allowances/ remuneration paid

**10. Details of Library:**

A	Details of Books	
		<b>Programmes wise</b>
(i)	No. of Titles	5996
(ii)	No. of Volumes	86454
(iii)	Total number of books	86454
(iv)	No. of Journals	96
B	Details of Digital Facilities	
(i)	Whether library operations computerized, internet facility, Reading room facilities, Photocopying facilities available, If yes, give details.	Yes
(ii)	Inter library linkage facilities	No
C	Reading Room and Reprographic facilities (photocopier and book binding)	Yes

**11. Status of Labs / Workshops (to be mentioned programme-wise):**

<b>Parameters</b>	
Availability of equipments / instruments, work table / work stations shall be as per the requirement	<b>Yes</b>
Minimum Technical Lab staff shall be: One Lab Assistant & One Lab Attendant for each labs & for Central/Mechanical workshop: One workshop Superintendent, One Sr. Mechanic & One Junior Mechanic.	<b>Yes</b>
Size of the lab as per norms of statutory body	<b>Yes</b>

**12. Conferencing / Instructional Facilities:**

<b>Parameters</b>	
Availability of: <ul style="list-style-type: none"> <li>• NKN Link :</li> <li>• Edusat:</li> <li>• Conferencing facility:</li> <li>• Video multimedia:</li> <li>• LCD:</li> <li>• Overhead Projector with screens:</li> <li>• Interactive boards :</li> <li>• Wi-Fi connectivity:</li> </ul>	No Yes Yes Yes Yes Yes Yes Yes

**13. Ancillary and Other Essential Facilities:**

<b>Parameters</b>	
Medical / First –Aid facility with Medical Room and availability of Doctors	<b>Yes</b>
Sports and games (indoor / outdoor)	<b>Yes</b>
Computer and Internet facility for the faculty members	<b>Yes</b>
Facilities for physically handicapped	<b>Yes</b>
Separate common rooms for boys and girls	<b>Yes</b>
Students canteen	<b>Yes</b>
Availability of generator	<b>Yes</b>
Potable water and water coolers for summer season	<b>Yes</b>
Faculty cubicles	<b>Yes</b>

**14. Details of other Facilities Available (Yes / No):**

(i)	Drinking Water	<b>Yes</b>
(ii)	Generator	<b>Yes</b>
(iii)	Bank facility	<b>Yes, Punjab National Bank ATM</b>
(iv)	Facilities provided for physically Handicapped	<b>Yes</b>
(v)	Transport facilities	<b>Under Process</b>
(vi)	Medical facilities	<b>Yes</b>

**15. Details of the Labs/Workshops/Work stations available:**

<b>Computer Labs – MBA Department</b>		
<b>Name of Laboratory</b>	<b>Major Equipment</b>	<b>List of equipment added during previous year</b>
Computer Lab	Computer system: 60 2/4GB RAM 160/500 GB HDD 6 KVA Online UPS: 02	Upgradation of computer has been done.

Name of Laboratory	Major Equipment	List of equipment added during previous year
<b>First Yr. Labs. – Physics Department</b>		
<b>Applied Physics – I</b>	Bar Pendulum, Fly Wheel, Newton's Ring set-up, Wavelength by grating set up, Resolving power of grating setup, dispersive power of prism setup, Divergence of laser setup, Polarimeter, Melde's experiment, Wavelength of He-Ne laser	Planck's Constant, Inverse square law
<b>Applied Physics – II</b>	e/m Setup, Stefan's law, Charging & discharging set up, Lee's disc, Carey-Foster's bridge, CRO, Function generator, Ultrasonic set-up, He-Ne Laser, Fibre optics Kit, Potentiometer, Energy band gap setup, Zener Diode, Diode Characteristics	Nil
<b>First Yr. Labs. – Chemistry Department</b>		
<b>Applied Chemistry – I</b>	Burettes, Pipettes, Beakers, Conical Flask, Digital Balance, Distillation Unit, Measuring cylinder, Physical Balance, Oven, Melting Point apparatus, UV Spectro Photometer, Colorimeter, Water bath, Viscometer, Stalagmometer, Conductivity Meter, Chemicals	Nil
<b>Applied Chemistry – II</b>	Burettes, Pipettes, Beakers, Conical Flask, Digital Balance, Distillation Unit, P <sup>H</sup> Meter, Measuring cylinder, Physical Balance, Thermos Flask, TDS meter, Nephelometer, Oven, BOD Bottles, Dessicator, BOD Incubator, Chemicals	Nil

## EEE Department

Name of Laboratory	Major Equipments	List of Equipment added during previous year.
<b>Electrical Technology Lab</b>	<ol style="list-style-type: none"> <li>1. Thevenin's theorem kit</li> <li>2. Superposition theorem kit.</li> <li>3. Norton's theorem kit.</li> <li>4. Panel for power &amp; power factor measurement of RLC series/parallel circuit.</li> <li>5. Panel for power and power factor measurement in single phase AC circuit using three ammeters method.</li> <li>6. Panel for power &amp; power factor measurement in three phase AC circuit (resistive and inductive load) using two wattmeter methods.</li> <li>7. Panel for load test on single phase transformer.</li> <li>8. Panel for short circuit and open circuit tests on single phase transformer.</li> <li>9. Panel for starting, reversing and speed control of dc shunt motor.</li> <li>10. Panel for starting, reversing and speed control of 3<math>\phi</math> Induction</li> <li>11. Motor using direct on line starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Stair case wiring kit.</li> </ol>
<b>Electrical Machines- 1</b>	<ol style="list-style-type: none"> <li>1. Panel for load test of dc shunt motor.</li> <li>2. Panel for load characteristic dc compound generator.</li> <li>3. Panel for load characteristic dc series generator.</li> <li>4. Panel for load characteristic dc shunt generator.</li> <li>5. Panel for speed control of dc shunt motor.</li> <li>6. Panel for Swinburne's test on dc shunt motor.</li> <li>7. Panel for Sumpner's back to back test on 1-phase transformer.</li> <li>8. Panel for Scott connection for conversion of 3-phase to 2-phase supply.</li> </ol>	<ol style="list-style-type: none"> <li>1. 1-Phase transformer.</li> <li>2. 3-Point dc starter.</li> <li>3. Cut section of dc motor.</li> <li>4. Cut section of 1-phase transformer.</li> </ol>
	<ol style="list-style-type: none"> <li>1. Panel for abcd parameters of a transmission line,</li> </ol>	<ol style="list-style-type: none"> <li>1. Three phase variac.</li> <li>2. Kit for frequency</li> </ol>



<p><b>Power System – 1 Lab</b></p>	<ol style="list-style-type: none"> <li>2. Kit for turns ratio of a single phase transformer and transformation ratio.</li> <li>3. Murray loop test kit.</li> <li>4. Panel for Improvement of power factor using condenser</li> <li>5. Panel for 1 phase power using instruments transformers.</li> <li>6. Panel for ferranti effect.</li> </ol>	<p>response RLC circuit.</p>
<p><b>Electrical Machines– II</b></p>	<ol style="list-style-type: none"> <li>1. Panel for Effect of capacitor on starting/running of 1 <math>\phi</math> induction motor.</li> <li>2. Panel for Load test on 1<math>\phi</math> induction motor.</li> <li>3. Working model of 3<math>\phi</math> auto transformer starter.</li> <li>4. Working model of 3<math>\phi</math> direct on line starter.</li> <li>5. Working model of 3 <math>\phi</math> star/delta starter.</li> <li>6. Panel for V curves of synchronous motor (electrical loading).</li> <li>7. Panel for Load test on 3 <math>\phi</math> slip ring induction motor.</li> <li>8. Panel for no load and block rotor test on 3 <math>\phi</math> induction motor.</li> <li>9. Panel for speed control of induction motor-varying voltage.</li> <li>10. Panel for speed control of induction motor-varying frequency.</li> <li>11. Panel for synchronizing panel for parallel operation of ac generators.</li> </ol>	<ol style="list-style-type: none"> <li>1. Panel for OC/SC test on 3-phase alternator.</li> <li>2. Cut section of squirrel Cage induction motor.</li> </ol>
<p><b>Control Engineering Lab</b></p>	<ol style="list-style-type: none"> <li>1. Kit of dc separately excited motor. Speed.</li> <li>2. Kit for torque characteristics of ac servo motor.</li> <li>3. Kit for compensating network.</li> <li>4. Kit for dc position control system.</li> <li>5. Kit for P,PI, PID temperature control for an oven.</li> <li>6. Kit for servo voltage stabilizer using load bank.</li> <li>7. Kit for PID controller.</li> </ol>	<ol style="list-style-type: none"> <li>1. Potentiometer as on error detector.</li> <li>2. Study of synchro transmitter-receiver.</li> <li>3. Magnetizing characteristics of saturable core reactor in magnetic amplifier circuit.</li> <li>4. DSO</li> </ol>

## ECE Department

Name of Laboratory	Major Equipments	List of Equipment added during previous year.
Analog Lab – I	<ol style="list-style-type: none"> <li>1.CRO</li> <li>2.Digital Multimeter</li> <li>3.Active Filter</li> <li>4.ColpittOscillator</li> <li>5.Darlington pair</li> <li>6.PN diode charac.</li> <li>7.Function generator</li> <li>8.MOSFET charac</li> <li>9.JFET charac</li> <li>10.Low pass filter kit</li> <li>11.Band pass filter</li> <li>12.High pass filter</li> <li>13.Hartley oscillator</li> <li>14.Op-amp</li> <li>15.Power supply</li> <li>16.Push pull amplifier</li> <li>17.RC coupled amplifier</li> <li>19.Rectifier kit</li> <li>18.Phase shift oscillator</li> <li>19.Single stage RC coupled</li> <li>20.Transistor charac.-</li> <li>21.Wein bridge oscillator</li> <li>22.Computers</li> </ol>	NIL
Analog Lab – 2	<ol style="list-style-type: none"> <li>1.CRO</li> <li>2.Digitalmultimeter</li> <li>3.Active filter</li> <li>4.Colpitt oscillator</li> <li>5.Darlington pair</li> <li>6.PN diode charac.kit</li> <li>7.Function generator</li> <li>8.FET charac</li> <li>9.Computer system</li> <li>10. Bread board</li> <li>11.Class A,B,C amplifiers</li> <li>12.Zener diode</li> <li>13.Op-amp</li> <li>14.Power supply</li> <li>15.Differential amplifier</li> <li>16.RC coupled amplifier</li> <li>17.Rectifier kit</li> </ol>	Bread Board Differential Amp.

	18.Phase shift oscillator 19.LCR meter 20. Transistor ccharac 21.Wein bridge oscillator 22.Hartley oscillator 23.Computers	
Communication Lab/Digital Communication Lab	1.AMTR 2.AM Rec 3.Carrier Mod & Data Formatting Kit 4.CarrierDemod.& data Reformatting Kit 5.Function Generator 6.Delta and adaptive delta mod Demod. 7.Freq. Division multiplexing Kit 8.PAM/PPM/PAM Kit 9.Sampling & Reconstruction Kit 10.TDM PCMRX 11.TDMPCM TX 12.QAM 13.CRO 14.DSC 15.CPU 16.TDM PAM 17. FM	ANALOG CRO DSO
Lab OFC	1.Digital Optical Fiber Trainer Kit 2.Advanced fiber optics trainer 3.Optical Fiber Trainer 4.Fibre optics communication trainer 5.Laser Optical Communication Trainer 6.Optical power meter 7.Laser Diode module APD module LD 8.modulator Coupler - 9. PCs	DSO- CRO- Fun. Generator
VLSI LAB /VHDL LAB	1.Computers 320 GB HDD, LCD, 4GBRAM, <b>Software :</b> 2.ORCAD 10.5-05 user 3. Mentor graphics tool-30 users, 4.Xilinx 8.1-Multiuser 5.Xilinx 14.3-Multiuser 6.Tanner Tools 11.2 -05 user 7.Sparton2 Trainer board 8.Sparton6 Trainer board 9.CPLD trainer board 10.UPS 5KVA & 2 .AC	Computers 500 GB HDD, 4GBRAM PC-core2duo,2GB HCL- 512MB,P4
DSP LAB	1.Computer (I <sup>3</sup> : 320 GBHDD, 4 GB RAM) 2. TMS Starter Kit 3.MATLAB 7.1-05 user 4.UPS 5KVA	NIL
MICROPROCESSOR	1.KITs – 8085	NIL

LAB – 1, 2	2.KITs – 8086 3.Interfacing Cards 4.Computers	
Electronic Device Lab – 1	1.CRO 2.Diode Characteristics 3.Transistor Characteristics Kit 4.Rectifier & Filters Kit 5.Function Generator 6.Bread Board Kit 7.Multi meter	NIL
Microwave	1.Gun Oscillator based bench 2.Reflex Klystron based bench 3.Power Meter 4.Computer 5.Microstrip Trainer	NIL
Circuit System Lab	1.Broad board 2.Reciprocity theorem Kit 3.Max Power Theorem Kit 4.Two port network kit 5.Digital Multi meter 6.Power Supply	NIL
EDC Lab – 2	1.Multi meter 2.Function Generator 3.Rectifier Kit 4.Diode Kit 5.Transistor Kit	NIL
Digital CKT /digital electronics Lab.	1.Bread Board 2.Digital Trainer 3.Digital IC Tester 4.Computer	NIL
Mobile Computing Lab	1.Mobile Phone trainer 2.GSM trainer kit 3.GSM Evaluation	NIL
Project Lab	1.Computer- 28 2.UPS 5KVA -01 3.Arm Development Board 4.Nouton development Kit 5.Emulator Compiler 6.Microcontroler Kit	Nil

## MAE Department

Name of Laboratory	Major Equipment	List of Equipment Added during Previous Year
Engineering Graphics Lab	Drawing Boards	Nil
Workshop Practice Lab	Electric Arc Welding Machine, Oxygen & acetylene Welding Kit, Oil Furnaces. Tools available for all shops such as Carpentry, fitting, sheet metal works, foundry and welding.	Nil
Engineering Mechanics Lab1 and Lab2	Centre of Gravity Apparatus, Differential Wheel & Axle apparatus, Parallel Forces Apparatus, Jib Crane Apparatus, Roof Truss on wheels apparatus. Polygon force apparatus, Inclined plane apparatus, Screw Jack Apparatus, worm & worm wheel apparatus, apparatus, Bell Crank lever apparatus, Flywheel apparatus.	Nil
Theory of Machines lab	Balancing apparatus, Gear Box Model , Epicyclic Gear Box, Cam & followers, Clutch instrument, Motorized whirling of shaft apparatus, Models of Reciprocating Engine, Scotch Yoke Mechanism, Watt Mechanism, Whitworth Quick Return Mechanism, Oscillating Cylinder Model, Clutches: Centrifugal Clutch, Cone Multiple Clutch Model Single Plate Clutch Model Diff. Gear Model. Motorized Gyroscope, Motorized Balancing of revolving masses Machine.	Nil
Strength of Material Lab	Impact Testing Machine, Hardness Tester, Torsion Testing Machine , Universal Testing Machine, Spring testing Machine.	Nil
Machine Shop Lab	Lathes, drilling Machines, Grinders, Universal Milling Machine, Shaper Machine-with standard accessories, Power Saw, Working Tables, surface plate.	Nil
Programming II Lab	Softwares & 60 PC's	Nil
Machine Drawing-Lab	Knuckle & cotter joint, Gib and cotter point, tie rod joint, Sleeve & cotter joint, socket and spigot joint, coupling(single), Hook's coupling (Double), Flexible coupling split muff coupling, Oldham's coupling, spur gear coupling	Nil
Measurement & Control Lab	Displacement measurement tutor using LVDT, Water Level measurement tutor using water, temperature measurement	Nil

	tutor, speed measurement tutor using electro magnetic sensor, Speed Measurement tutor, Strain Measurement and Torque Measurement tutor.	
MAT LAB	Softwares & 60 PC's	Nil
Machine Design Lab	Drawing Tables with boards, automotive transmission, Single shoe brake, disc brake, double shoe expanding brake, claw clutch, connecting rod, engine piston assembly.	Nil
Fluid Mechanics and Fluid System Lab	Bernoulli's theorem app, Venturi meter app, Notch app, pipe friction app, Metacentric height app, Orifice app, Impact of jet on vanes app, Free and forced vortex app. Centrifugal Pump test rig, Reciprocating Pump test rig, Gear oil pump test rig, Francis turbine test rig, Kaplan turbine, Pelton Wheel Turbine test rig, Hydraulic ram apparatus.	Nil
Metal Cutting & Tool Design Lab	Centre Lathe-6' along with all accessories, precision lathe-6' long with all accessories, pillar drilling Machine-25mm heavy duty with standard accessories, Universal Milling Machine with standard accessories, Shaper Machine-300mm (all geared ) with standard accessories, power saw-200mm with standard accessories, Bench Grinder-200mm, Pedestal Grinder-300mm.	Nil
Programming Lab (Pro-E)	Softwares & 60 PC's	Nil
CAM Lab	CNC Milling Machine	Nil
Refrigeration & Air-Conditioning Lab	Refrigerating Testing Rig- Compressor cooling capacity ½ Ton, Mechanical Heat Pump-Compressor cooling capacity-⅓ Ton, Water cooling Test Rig-Capacity 20 Liters/hr. Compressor cooling capacity-⅓ Ton, Compressor Cooling Capacity-1.5 Ton, Air Condition Test Rig (window type) Compressor cooling capacity 1.5 ton. Expansion devices used in refrigeration system (study unit), Components of Air-Conditioning system (Study unit), Window Air-Conditioner (Study unit)	Nil
Metrology Lab	Outside Micrometer: a: 25-50 mm b: 50-75 mm c: 75-100 mm Vernier Calipers with fine Adjustments Range: 250 mm Vernier Calipers with Dial Indicator Range:	Nil

	<p>0-200 mm  Vernier Depth Gauge : a: 250 mm  b: 300 mm</p> <p>Slip Gauge Sets  Sine Bar 150 mm with Fine Centres  Comparators (Mechanical)  Limit Gauge (plug Gauge: 30 mm)</p> <p>Spirit Levels  Surface plates: 24"×24"  Dial Indicator with Magnetic Base(0-25mm)  Screw thread Micrometer Universal Surface  Gauge Tools Makers Measuring Machine  Techometer Range: 0-25 mm  Feeler Gauge</p>	
Mechatronics Lab	PLC Trainer kit	Nil
Robotics Lab	Robotic Arm Kit	Nil

## IT Department – Computer Lab

Name of Laboratory	Major Equipment	List of Equipment Added during Previous Year
Computer Graphics & Multimedia Lab Object Oriented Software Engineering Lab Java Programming Lab Project Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Data Base Management System Lab Operating System Lab Network Security Lab Compiler Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Advanced Computer Network Lab Computer Network Data Warehousing & Data Mining Lab Requirement & Estimation Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Software Testing Data Structure Lab Software Engineering Algorithm Analysis & Design Software Testing	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Server Room 1	Server: 2 Linked with LAN	Upgradation of Computers has been done.



## **CVE Department**

<b>Name of Laboratory</b>	<b>Major Equipment</b>	<b>List of Equipment Added during Previous Year</b>
<b>GEOINFORMATICS</b>	1. Total station 2. Vernier Theodolite 3. Digital Theodolite 4. Automatic Level 5. Dumpy Level 6. GPS 7. Total station 8. Automatic Level 9. Dumpy Level 10. Plane Table 11. Prismatic compass	NIL
<b>FLUID MECHANICS</b>	1. Reynolds Apparatus 2. Metacentric height Apparatus 3. Impact of Jet apparatus 4. Pressure Measurement Apparatus 5. Free & Forced Vortices Apparatus 6. Notch Apparatus	NIL
<b>STRUCTURE ANALYSIS</b>	1. Elastic Properties of Deflected Beam Apparatus 2. Behaviour of Column & Struts Apparatus 3. Apparatus for Verification of Clerk's Maxwell Reciprocal Theorem 4. Three Hinged Arch Apparatus 5. Curved Member Apparatus 6. STAAD PRO Software	NIL

<b>GEOTECHNICAL</b>	<ol style="list-style-type: none"> <li>1. Relative Density Apparatus</li> <li>2. Direct Shear Apparatus</li> <li>3. Permeability Test Apparatus</li> <li>4. SPT Apparatus</li> <li>5. Penetrometer</li> <li>6. Weighing Balance (30kg)</li> <li>7. Tri- axial Apparatus</li> <li>8. CompactionFactor Apparatus</li> <li>9. Sieve Shaker- Motorised</li> <li>10. Hot Air Oven</li> <li>11. Consolidation Apparatus</li> <li>12. Rapid Moisture Meter</li> <li>13. Constant Volume Mould</li> <li>14. High Speed Stirrer</li> <li>15. Sand Pouring Cylinder</li> <li>16. Hydrometer</li> </ol>	<ol style="list-style-type: none"> <li>1. Vane shear apparatus</li> <li>2. Sample extruder</li> </ol>
<b>GEOLOGY LAB</b>	<ol style="list-style-type: none"> <li>1. Hardness Scale Box</li> <li>2. Geological Hammer-Steel Carborised</li> <li>3. Geological Hammer- Estwing Edge</li> <li>4. Brunton Compass</li> <li>5. Petrological Microscope</li> </ol>	NIL
<b>MATERIAL TESTING</b>	<ol style="list-style-type: none"> <li>1. Concrete Mixer</li> <li>2. Slump Test Apparatus</li> <li>3. Aggregate Crushing Value Apparatus</li> <li>4. Accelerated Curing Tank</li> <li>5. Vicat Apparatus</li> <li>6. Le- Chatelier Mould</li> <li>7. Flow table</li> </ol>	<ol style="list-style-type: none"> <li>1. Compression Testing machine</li> <li>2. Concrete test hammer (Rebound)</li> <li>3. Flexure testing machine</li> <li>4. Blaine's apparatus</li> </ol>

<p><b>TRANSPORTATION</b></p>	<ol style="list-style-type: none"> <li>1. CBR Apparatus</li> <li>2. Aggregate Impact Test Apparatus</li> <li>3. Ring and Ball Apparatus</li> <li>4. Thickness Gauge</li> <li>5. Length Gauge</li> <li>6. Ductility Testing Machine</li> </ol>	<ol style="list-style-type: none"> <li>1. Marsh cone apparatus</li> <li>2. Los Angeles Abrasion testing machine</li> <li>3. Tar viscometer</li> <li>4. Flash point apparatus</li> <li>5. Marshall apparatus</li> <li>6. Laboratory mixer</li> <li>7. Centrifuge extractor</li> <li>8. Hot plate</li> </ol>
<p><b>ENVIRONMENTAL LAB</b></p>	<ol style="list-style-type: none"> <li>1. BOD Incubator</li> <li>2. Oven</li> <li>3. Jar Test Apparatus</li> <li>4. Muffle Furnance</li> <li>5. Portable Water Analysis Kit</li> <li>6. Digital Colony Counter</li> <li>7. Digital TDS Meter</li> <li>8. Digital PH Meter</li> <li>9. Digital Conductivity Meter</li> </ol>	<ol style="list-style-type: none"> <li>1. Respirable Dust Sampler</li> <li>2. PM 2.5 Sampler</li> <li>3. Sound level meter</li> <li>4. Autoclave</li> </ol>

## CSE Computer Labs

Name of Laboratory	Major Equipment	List of Equipment Added during Previous Year
22Project Lab Linux Lab Artificial Intelligence Lab Software Testing Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Computer Graphics Database Management System Lab Data Warehousing & Data Mining Lab Multimedia Technologies Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Java Programming Data Structure Lab Algorithm Analysis and Design Lab	Computer system: 30 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 02 Printer: 03	Upgradation of computer has been done.
Advance Computer Network Lab Requirement Estimation & Testing Lab Software Engineering Lab Object Oriented Software Engineering Lab	Computer system: 30 1/4GB RAM 160/320 GB HDD 5 KVA Online UPS 02 Printer: 03	Upgradation of computer has been done.
Fundamental of Computer Lab Programming Lab	Computer system: 60 2/4GB RAM 160/320 GB HDD 5 KVA Online UPS: 04 Dot Matrix Printer: 06	Upgradation of computer has been done.
Server Room 2	Server: 2 Linked with LAN	Upgradation of Computers has been done.

## Computer Labs – MCA Department

Name of Laboratory	Major Equipment	List of Equipment Added during Previous Year
Project Lab Algorithm analysis and Design Lab DBMS Lab Java Programming Lab Web Technologies Lab Software Testing lab	Computer system: 30 2/4GB RAM 160/500 GB HDD 5 KVA Online UPS: 02 Laser Printer: 03	UP gradation of computer has been done.
Fundamentals of IT Lab Programming in C Lab Data and File Structures Lab Object Oriented Programming in C++ Lab Software Engineering Lab. Computer Graphics Lab	Computer system: 30 2/4GB RAM 160/500 GB HDD 5 KVA Online UPS: 02 Laser Printer: 03	UP gradation of computer has been done.
Data and File Structures Lab. Data Warehousing and Data Mining Lab. Linux Programming lab. Multimedia Technologies lab. C# Programming Lab. Advanced Computer Networks Lab	Computer system: 30 2/4GB RAM 160/500 GB HDD 5 KVA Online UPS: 02 Dot Matrix Printer: 03 Laser Printer: 03	UP gradation of computer has been done.

## Details of Computer Centre

Name of Laboratory	No. of Computers with configuration	Other Equipment (LAN/Servers/Printers/Fire wall etc.	Legal Software (System & Application)
Computer Center	<b>No. of PC</b> – 60 <b>Configuration</b> – Intel Core i3 and i5 Intel Motherboard 2/4 GB DDR-2 RAM 320 GB SATA Hard Disk, Sound, Onboard,18.5” LCD Digital Color Monitor, Imported Cabinet with 400 SMPS Multimedia Kit,Scroll Mouse with Pad, Multimedia Keyboard.	All systems are networked with server with latest antivirus through LAN Printer :- Laser Jet 03 Firewall:- Smart Guard Internet:- 10 mbps from Bharti Airtel	Windows 7 Open office Turbo C++

## 16. Any new initiatives/achievements:

### Students Achievements

#### Academics

- Final year Civil and MAE students won Gold Medals in the University.
- MAE students participated in “**Efficycle-2014**” event held at UIET, Chandigarh Punjab and won best acceleration award and cash prize of Rs. 25,000/- and 9<sup>th</sup> Rank All Over India.
- Robogyan Robotics Society participated in ROBOCON 2015 – National Level Robotic Competition at Pune from 5<sup>th</sup> – 7<sup>th</sup> March, 2015.  
The theme this year was ROBOMINTON i.e badminton playing robots. The two robots, servicing and shooting, both had the capability to move in all direction with variable speed. Both the robots were designed so as to hit the shuttle accurately at its target with maximum efficiency. The ROBOMINTON was exhibited in ‘YONEX-SUNRISE INDIA OPEN 2015’ which is INDIA’s biggest badminton event.
- Unmanned Aerial Vehicle (UAV) designed by the Zeppelin Society of College participated in AUVSI students unmanned Air Systems (SUAS) held in Maryland, USA and won Cash prize of 400 \$ Dollars.
- 9 Teams of students participated in Delhi Technological University for “**IEEE Xtreme 9.0, Global Coding Challenge**” and one of our team bagged a Rank in top 500 and University Rank 1.

### Extension Activities

S.No.	Events	Dates
1.	Tree Plantation Drive	04.12.2014
2.	Self Defense Workshop for Girl Students organized by IEEE	20.03.2015 – 21.03.2015
3.	ZEST – Model United Nation for B.Tech. students organized by CSE Department	04.04.2015 – 05.04.2015
4	Operation – Nirbhik – Awareness Proramme on Sexual Harrasment by Mr. Veenu Bansal – DCP North East	02.09.2015
5	You We Can - Cancer Awareness Program	03.09.2015

## Sports

Our students brought laurel to the College by securing 20 Medals (9 Gold + 8 Silver & 3 Bronze) in GGSIP University Sports Meet-2015.

### Details of Medals

1.	Basket ball	<b>Gold</b>	<b>09</b>
2.	Volleyball		
3.	Shot-put		
4.	Discuss		
5.	4 x 400 Relay		
6.	100 Mt. Race		
7.	Power Lifting		
8.	Badminton Doubles (Girls)		
9.	Long Jump (Girls)		
10.	200 Mt. Race	<b>Silver</b>	<b>08</b>
11.	Best Physique		
12.	5000 Mt. Race		
13.	10,000 Mt. Race		
14.	Cross Country Race		
15.	Badminton Doubles (Boys)		
16.	Discuss Throw Boys		
17.	Table Tennis Doubles (Girls)		
18.	1500 Mt. Race	<b>Bronze</b>	<b>03</b>
19.	Badminton Single (Boys)		
20.	Shot-put		



**Events:**

- NAAC Accredited.
- 08 Guest Lectures, 05 Workshops & 1 Seminar were organized and attended by NIEC faculty & students.
- Organized 13 Faculty Development Programmes in collaboration with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh in 2015.
- Eight industrial visits were organized
- Annual Techno-Cultural fest Innoviz - 2015 and Sports Meet were organized in March, 2015
- ECE department got a project funded by Department of Science & Technology for an amount of Rs. 39,24,000/-
- Two volumes of the Institute research journal 'NIEC Anveshan Patrika' is published in June & December 2015. The ISSN no. is "ISSN 2393-8706"
- Alumni association of the College has been registered under the name 'Alumni Association Northern India Engineering College.
- Two innovative projects have been started in the ECE Department and seed money of Rs. 1 Lac. Each has been sanctioned for the same.
- Civil Department got consultancy from CPWD for an amount of Rs. 60,000/-.

**New initiatives:**

- Planning to go for NBA Accreditation.
- E Cell has been constituted to strengthen the Industry Institution Interaction.