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Green Audit Assessment Team thanks the Integral University for assigning this important work of Green Audit. We appreciate the cooperation extended to our team during the entire process. Our special thanks are due to:

- Dr MA Khalid, Dean of Students Welfare, Chairman

Team of colleagues For giving us necessary inputs to carry out this very vital exercise of Green Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements. The green audit conducted by the Integral University is an internal audit that aims towards looking after a healthy environment. Though nascent, the initiative is taken up to foster the concept of environmental sustainability.

Sincere thanks to all for providing us necessary amenities and co-operation during the audit that helped in making the audit, a success.

EXECUTIVE SUMMARY

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development. Integral University, Lucknow is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The methodology included: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit was to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The criteria, methods and recommendations used in the audit were based on the identified risks.

The baseline data prepared for the Integral University will be a useful tool for campus greening, resource management, planning of future projects, and a document for implementation of sustainable development of the college. Existing data will allow the college to compare its programmes and operations with those of peer institutions, identify areas in need of improvement, and prioritize the implementation of future projects. We expect that the management will be committed to implement the green audit recommendation

MEMBER OF GREEN AUDIT COMMITTEE

Dr. M.A .Khalid Dean of Students Welfare Chairman

Dr. Indrani Chakraborty
Dean, Faculty of Architecture and Planning
Convener

Er. Suffiyan Abbasi Director Procurement Member

Er . Mohd. Kashif Khan Civil Engineering Department Member

Ar.Tariq UI Islam
Associate Professor
Department of Architecture
Member

Dr.Deepti Shrivastava Assistant Professor IIAST

Ar. Safa Seraj Assistant Professor Department of Architecture Member MA 12020

And Aller

Carrio Dargenzaro

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1.INTRODUCTION

Green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council. Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Later on, it is implemented as a measure to enhance a healthy environment to almost all the organizations. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit.

The goal is to reduce CO2 emission, energy and water usage, while creating an environmentally literate campus where students can learn the idea of protection of environment and stay healthy. The "Green Campus" has been a very new concept adopted by this college. The college administration is still working on the several facets of "Green Campus" including Water Conservation, Tree Plantation, Waste Management, Paperless Work, carbon footprints and Alternative Energy.

2.OBJECTIVES

With the advice of the Internal Quality Assessment Cell (IQAC) has set up a Green audit Committee (GREEN CAMPUS) had been established that aimed at performing the green audit of the University campus. The main objectives of the audit are:

- To assess whether non-academic activities of the Institution support the collection, recovery, reuse and recycling of solid wastes that harm the environment.
- To identify gaps and suggest recommendations to improve the Green Campus status of the institution
- To create a green campus and to Enhance of university profile
- To enable waste management through reduction of waste generation, solid- waste and water recycling
- To recognize the cost saving methods through waste minimizing and managing
- To Impart environmental education through systematic environmental management approach and benchmarking for environmental protection

3. METHODOLOGY

In order to perform green audit, the methodology included different techniques such as physical inspection of the campuses, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following steps to summarize the present status of environment management in the campuses: .

- 1. Onsite Visit
- 2. Focus Group Discussion
- 3. Office/Building Survey
- 4. Recommendation

The scoring of the campus for greenness based on United Nations Environment Programme, 2014(UNEP), GREENING UNIVERSITIES TOOLKIT V2.0. the following The study has appraised on the basis of the following criteria:

- 1. Energy, Carbon, and Climate Change
- 2. Water
- 3. Waste
- 4. Biodiversity and Ecosystem Service
- 5. Planning, Design and Development
- 6. Procurement
- 7. Green Office
- 8. Green Lab
- 9. Green IT
- 10. Transport

GREEN AUDIT ASSESSMENT TEAM

The green Audit team Comprises of:

- 1. Dr MA Khalid, Dean of Students Welfare, Chairman
- 2. Dr Indrani Chakraborty, Dean, faculty of Architecture and Planning, Convener
- 3. Er Suffiyan Abbassi, Director Procurement, Member
- 4. Er Kashif Khan, Civil engineering Department, Member
- 5. Ar. Tariq Ul Islam, Assistant Professor, Department of Architecture, Member
- 6. Ar Safa Seraj, Assistant Professor, Department of Architecture, Member

4. UNIVERSITY CAMPUS

Integral University is a state private university in Lucknow, the capital of Uttar Pradesh, India, which originated as the Institute of Integral Technology, Lucknow. The Institute of Integral Technology, Lucknow was established in 1998. Integral University, the first enacted Minority University in the country, started functioning from 1 April 2004. Integral University was accorded recognition by U.G.C. under section 2(f) of U.G.C. Act, 1956. The University was founded in 2004.

At present the University has 14 faculties and 32 departments of Science, Pharmacy, Education, Management Studies, Health & Medical Sciences, Agricultural Science & Technology, Humanities & Social Sciences, Computer Applications, Medical Sciences & Allied Health Sciences, and Law, with 2 schools each of Nursing and Pharmacy and a university Polytechnic providing courses at the diploma, undergraduate, graduate, postgraduate and doctoral levels. Integral University also includes the Techno-Academic School in the West Campus of University Law Campus which provides the Secondary and Senior Secondary education.

The university is divided into blocks: Academic blocks A, B,C,D,E,F and N, Administrative Block - M,

Hospital Block - H, Boys Hostel Hall1,2,3,&4,Central Library -Block C,
Canteen , Department of Pharmacy
Block -CW , Generator Room , Girls
Hostel , Hospital Building , Playground ,
IIAST Block - BW , Laundry , Medical
Gas Plant , Medicine Shop , Mess Girls
Hostel , Nescafe , Nurses Hostel , Post
Mortem/Mortuary , Residential
Quarters Block -R, Rainbasera , Staff
Residence , Techno Academic Inter

Table: 1 Illustration of the campus area and the total population.			
	Attributes	Variables	
UNIVERSITY	Campus Area 121.047 Acre		
AREA	Built Up Area 40%		
	Open Spaces 60%		
POPULATION	Students 16054		
	Teachers 304		
	Non Teaching Staffs 400		

College -Block DW, University Polytechnic -AW and Workshop Beside this a Punjab National Bank branch has been operating in the university. (Map of the campus and plans of individual buildings alongwith total number of rooms are attached in the annexure)

Overall initiatives need to include:

- 1. Physical Appearance and Overall Ambience
- 2. Adequacy of Toilets (Student/Toilet Ratio)
- 3. Gender Balance of Toilets (Male: Women) self certifiable
- 4. Disabled-Friendly Toilets
- 5. Water Taps and Sanitation Plumbing, Adequacy and Efficiency
- 6. Water Efficient Toilets
- 7. Dedicated Staff for Hygiene Maintenance
- 8. Dedicated Staff for Hygiene Inspection
- 9. Kitchen Staff Apparel and Hygiene
- 10. Canteen Hygiene
- 11. Kitchen Hygiene
- 12. Cutlery, Crockery and Utensils Hygiene
- 13. Dining Hall Hygiene
- 14. Cleaning Equipment and Consumables

To ensure minimum water consumption or to save more than 40% of the potable water by incorporating the following strategy Reduce Reuse Recycle We have implemented the following 1. Effective rainwater management system 2. Water efficient plumbing fixtures 3. Landscaping with native species of trees and plants to ensure minimum water consumption as much as possible. 4. Efficient irrigation systems 5. 100% of the waste water generated on-site is treated using STP and the treated water has been reused within the site itself for landscaping, flushing and other custodial purposes 6. Continuous monitoring to enhance the performance of the building through water meters To reduce adverse health impacts for building occupants, the entire campus uses eco-friendly housekeeping chemicals. The campus adopts eco -friendly house keeping practices during maintenance / housekeeping activities by using bio-degradable chemicals, which address health, hygiene and well-

being of maintenance staff & building occupants. Eco-friendly house keeping chemicals are used for cleaning of floors, walls, glazing surfaces, restrooms etc.

4.1 ACADEMIC ACTIVITIES

4.1.1 FACULTIES OF STUDY

Table 2: List of Programme.

Undergraduate	Post Graduate	Integrated	
 Architecture (B.Arch.) Arts (English/Physical Edu.) Business Administration (BBA) Bachelor Of Optometry (B.Optom.) Bachelor Of Science In Forensic Science (BFS) Bachelor Of Science In Health & Information Technology Commerce (Honours) (BCom) Computer Application (BCA) Education (BEd) Engineering (BE) Law (BA/BBA/B.Com-LLB) Library & Information Science Medicine (MBBS) Medical Laboratory Technology (BMLT) Pharmacy (BPharm) Physiotherapy (BPth) Planning (BPlan) Radio Imaging Technology (BRIT) Science (BSc) Technology (BTech) Vocational (BVoc) 	 Architecture (M.Arch.) Arts (MA) Business Administration (MBA) Commerce (MCom) Computer Application (MCA) Education (MEd) Humanities & Social Sciences Library And Information Science Medicine (MD) Pharmacy (MPharm) Physiotherapy (MPth) Planning (M.Plan) Science (MSc) Technology (MTech) Valuation 	 M.B.A (Integrated) M.Com (Integrated) M.Sc. (Integrated) Dual Degree B.Tech. + M.Tech. Diploma Doctorate Certificate Courses Distance Education Pvt. Registration 	

4.2 BUILDING USE ANALYSIS

The detail analysis of the classroom and other spaces are documented and analyzed. (**Annexure 1**) The university campus is divided into two campus:

Campus 1 consist of:

- Academic blocks:
- Block A
- Block B
- ➤ Block D
- ➤ Block E
- Block F
- ➢ Block N
- Administrative Block M

Green Audit Report

- Hospital Block H
- Boys Hostel Hall :
- Boys Hostel Hall-1
- ➤ Boys Hostel Hall-2
- Boys Hostel Hall-3
- ➤ Boys Hostel Hall-4
- Central Library -Block C
- Canteen
- Generator Room
- Girls Hostel
- Hospital Building
- Playground
- Laundry
- Medical Gas Plant
- Medicine Shop
- Mess Girls Hostel
- Nescafe
- Nurses Hostel
- Post Mortem/Mortuary
- Residential Quarters Block -R
- Rainbasera
- Staff Residence
- Workshop

West Campus consist of:

- IIAST Block BW
- University Polytechnic -AW
- Techno Academic Inter College -Block DW
- Department of Pharmacy Block -CW

Total Plot Area is 180382 sq.mt. In which 34550 sq.mt(excluding residential activities) is the ground coverage i.e. 25% and remaining 60,000 sq.mt i.e.75% is the green scape.

INTEGRAL UNIVERSITY, LUCKNOW CAMPUS LAYOUT

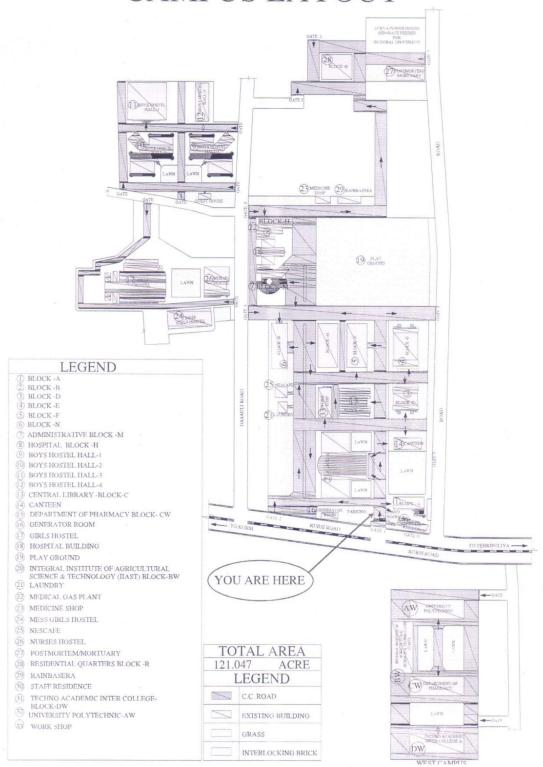


FIGURE 1: Layout Plan of the University

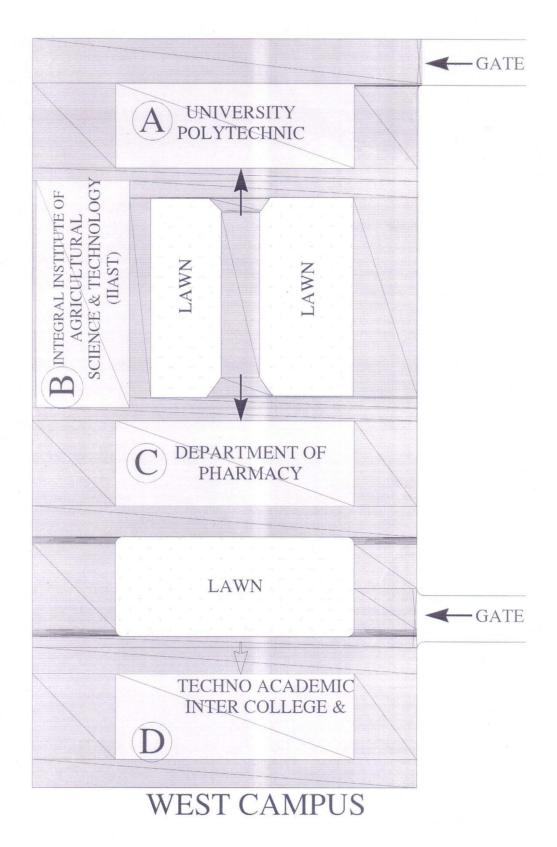


FIGURE 2: Layout Plan of the West Campus of the University

5. GREEN FACTORS IN THE CAMPUS

5.1 ENERGY, CARBON, AND CLIMATE CHANGE

5.1.1 ENERGY USE AND CONSERVATION

Conservation is the process of reducing demand on a limited supply and enabling that supply to begin to rebuild itself. Many times the best way of doing this is to replace the energy used with an alternate. Without energy conservation, the world will deplete its natural resources. While some people don't see that as an issue because it will take many decades to happen and they foresee that by the time the natural resource is gone there will be an alternative; the depletion also comes at the cost of creating an enormous destructive waste product that then impacts the rest of life. The goal with energy conservation techniques is reduce demand, protect and replenish supplies, develop and use alternative energy sources, and to clean up the damage from the prior energy processes.

Integral University being one of the most exemplary university of Lucknow consumes an average unit 441366.5 kW per year in average it is 29.8% only to maintain its volumetric activities throughout the year . The average solar unit consumed per year is 131419.8333 kW through the installed solar LED lights. The authority keep on replacing the old filament bulbs, CFL bulbs and tube lights by low energy consuming LED bulbs and LED tubes and bulky high power consuming fans by energy efficient fans in order to keep the electricity consumption of the University as low as possible.

5.1.2 SOLAR PANELS

Installation of solar panels on the terrace of the department is being done and is in use for the street lights inside the campus. Integral University has adopted SPV Technology to reduce its reliance on conventional power. For SPV grid interactive system, available roof area on the building is used for setting up solar PV plants. The electricity generated here is fed to transmission grid. Rooftop solar PV systems are easy to install & maintain, have long life and are modular in nature.

In tune with the international trend, Integral University has installed 1MWp Rooftop Grid Interactive Solar Power Plant as per Solar Energy Corporation of India (SECI) guidelines & specifications. Apart from 30%-40% revenue saving, the plant abates around 1400 tons of Carbon dioxide annually and reduces emissions from grid power and backup diesel generators.

Table 3: 1MWP SOLAR PHOTOVOLTAIC PLANT (Grid Interactive & Rooftop)

Location	Capacity (kWp)	Modules (320 Wp)	Inverters
Academic Block	200	720 Nos.	66kVA (3 Nos.)
New Girls Hostel	150	460 Nos.	50 kVA (3 Nos.)
Civil Block	110	417Nos.	66kVA (1No.) , 25kVA(1 No.)
			20kVA (1No.)
Medical Phase II	110	343Nos.	50kVA (2Nos.)
Medical Phase - I	100	400Nos.	25kVA (4 Nos.)
BNLT Block	90	340Nos.	66kVA (1 No.),25kVA (1 No.)
Residential Block	80	240Nos.	50 kVA (1 No.),30kVA (1No.)
Library	70	220Nos.	50 kVA (1 No.),20kVA (1No.)

Old Girls Hostel	60	180	66kVA (1No.)
NLT A Block	40	120	50kVA (1No.)





FIGURE 3 : Solar light installation with in the campus.





FIGURE 4 : Solar light installation on the terrace of Departments.

Other energy saving initiatives

Reuse Strategies Promote the use of reusable by giving away or selling them to members of the campus community and organizing discounts at local and campus stores. Work with the university stores to reduce waste:

- 1) Establish a bag/carton return program (in which there is a small refund for returning them)
- 2) Promote the use of cloth bags instead of disposable bags
- 3) Encourage the sale of goods with less packaging
- 4) Create a market for used books and other items

- 5. Strict rules need to be implemented to prevent littering on the campus.
- 6. Declare the entire campus as 'No Plastic Zone'.
- 7. Water dispensers need to be set in several locations on campus with durable and reusable cups (bottled water as well as sale point of soft drinks and water in pet bottles on campus need to be banned).
- 8. Reusable tableware and eco-friendly parceling need to be enforced in all food joints on campus.
- 9. A small part of the land on campus needs to be earmarked to set up four separate waste processing units: one for organic waste (biogas plant/ compost), one for secondary and tertiary segregation of dry wastes, yet another for shredding and incinerating, and a fourth one to store recyclable wastes, construction rubble and waste residue intended for municipal landfill and e-waste that need to leave the campus in a designated way.
- 10. E-waste is to be deposited with designated contractor duly authorized by the Pollution Control Board. Refurbished computers, monitors, scanner and printers may be donated.
- 11. Avoid paper pamphlets and flex banners. Instead, use reusable cloth banners and notice boards.
- 12. Wet waste can be treated at source itself for the benefit of other organisms. The wet waste from the kitchen and the canteen is to be collected at a place so that birds, cows, dogs, goats and small animals can feed on it. If unused food is in large quantity and not spoiled, it can be channeled to the needy through 'Food Bank' system on the campus.
- 13. When institutes and offices become paperless, a lot of trash can be reduced. Hence use emails, SMS, WhatsApp and Facebook and other social media platforms and online resources to a certain extent.

Plan for waste handling:

- 1. Compost structure
- 2. Biomedical wastes, if any, must be securely and properly sent to biomedical waste treatment and disposal facilities as per the procedures laid out by the Pollution Control Board.
- 3. Bio-methane plant for wet waste.
- 4. Set up an incinerator for hazardous dry / waste.

5.2 WATER

5.2.1 DRINKING WATER



FIGURE 5: Drinking tank around the campus with different capacity.

Water is a precious resource, and although it flows freely from the tap, it's not infinite. Green campus lawns, clean cafeteria plates, and even air conditioned dorms don't happen without using lots of water. College campuses are home to some of the most innovative ideas for water conservation, implementing water management technology, smart conservation policies and more.

The university campus consist of rain water harvesting that collects and store the rain water as well as the surface water into the tanks. Sprinklers have been installed into the garden areas and regular pipes are checked for unnecessary leakage .

5.2.2 RAINWATER HARVESTING

Objectives:

- Meet the growing needs and demands of water.
- It decreases the run-off because it stops or blocks the drain.
- Shunning the flooding of roads.
- Increase the underground water level and decreases the ground water pollution.
- Decreases the corrosion of soil and complete the domestic needs of water.

The methodology adopted for Rain Water Harvesting is by building pits.

Recharge pits are small pits of any shape rectangular, square or circular, contracted with brick or stone masonry wall with weep hole at regular intervals. Top of pit can be covered with perforated covers. Bottom of pit should be filled with filter media.

The capacity of the pit can be designed on the basis of catchment area, rainfall intensity and recharge rate of soil. Usually the dimensions of the pit may be of 1 to 2 m width and 2 to 3 m deep depending on the depth of pervious strata.

Rainfall calculator

A 10-sq.ft. area receives 1 litre of water if the rainfall is 1 mm. The average rainfall per year is 1,200 mm in the district. Hence, the total volume of water received on the 1,00,000 sq.ft. area of the terrace $(1,200 \text{ mm} \times 1,00,000 \text{ sq.ft.}) = 12,00,00,000$ litres per year. If this is converted into metric tonnes, it is 1,20,000 metric tonnes.



FIGURE 6: Location of Rain Water Harvesting.

5.3 WASTE

5.3.1 WASTE MANAGEMENT

Waste management (or **waste disposal**) are the activities and actions required to manage waste from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process.

Waste can be solid, liquid, or gas and each type has different methods of disposal and management. Waste management deals with all types of waste, including industrial, biological and household. In some

cases, waste can pose a threat to human health. Waste is produced by human activity, for example, the extraction and processing of raw materials. Waste management is intended to reduce adverse effects of waste on human health, the environment or aesthetics.

5.3.2 WASTE GENERATION

The weight or volume of materials and products that enter the waste stream before recycling, composting, landfilling, or combustion takes place. Also can represent the amount of waste generated by a given source or category of sources.

Solid waste generation and composition analysis is a critical first step towards developing successful and effective planning of waste management service and strategies across university campus. This indicator addresses waste production and disposal of different wastes like paper , food, plastic, glass, dust etc.

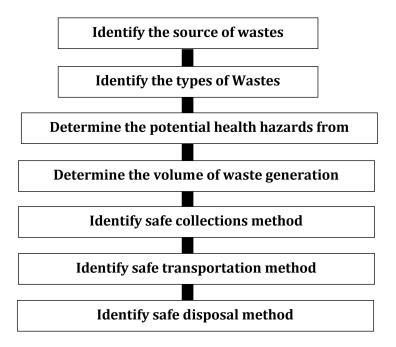


FIGURE 7: Process for Solid Waste Management

Solid wastes may contain:

- · Human pathogens diapers, handkerchiefs, contaminated food and surgical dressings
- · Animal pathogens waste from pets
- · Soil persons garden waste

By reusing or recycling we are: Contributing to the conservation of natural resources, saving energy, helping to protect the environment and reducing landfill. We will also reduce our impact on the

environment by minimizing the carbon emissions associated with both disposing of old products and obtaining new ones. The campus consist of numbers of dust bins along with the color coding such as - green for bio-degradable waste and blue for plastic and metal waste .

5.3.3 WASTE COLLECTION



FIGURE 8: Color Codes have been used; green-bio degradable waste and blue - plastic and metal waste

5.3.4 WASTE DISPOSAL AND TREATMENT



FIGURE 9: Photo of Bio-Waste Transferring.





FIGURE 10: Sewage Treatment Plant (under construction)

5.3.5 E-WASTE MANAGEMENT

E-waste comprises of wastes generated from used electronic devices and household appliances which are not fit for their original intended use and are destined for recovery, recycling or disposal. Such wastes encompasses wide range of electrical and electronic devices such as computers, hand held cellular phones, personal stereos, including large household appliances such as refrigerators, air conditioners etc. Electronic waste or e-waste or e-scrap or waste electrical and electronic equipment (WEEE) can be defined as the discarded waste computers, office electronic equipments entertainment device electronics, mobile phones, television sets and the refrigerators. The term E-waste is loosely applied to consumer and business electronic equipment that is near or at the end of it's useful life. It is a waste consisting of any broken or unwanted electrical or electronic appliance.

Waste generated from the following electronic equipments is generally referred to as the E-waste:

- IT and Telecom equipments like computers, laptops, tablets and the systems used in the BPO call centres.
- Medical devices like CT scan machine, X-Ray machine, etc.
- Monitoring and control devices
- Small household appliances like PC's, mobile phones, MP3 players,I-Pods, Tablets etc
- Consumer and lighting equipments like bulbs, CFL, fluorescent tube lights.







FIGURE 11: The E -Waste room stores all the damaged electronic gadgets and their parts.

5.4 BIODIVERSITY AND ECOSYSTEM SERVICE

5.4.1 GREEN AREAS

Green area means an area of grass, trees, or other vegetation set apart for recreational or aesthetic purposes in an otherwise urban environment. It plays a very vital role in boosting the mental health of the student. It seems obvious that a place where people are able to make connections, meet new friends and participate in recreational activities is also good for the locals' mental health. After all, physical health and strong relationships are important to maintaining mental well being.

Yet the mental health benefits of green space go beyond the obvious. Direct exposure to nature has its own benefits on mental health, reducing stress and increasing happiness and these effects take place almost immediately.

5.4.2 GREEN - SCAPES





Students' psychological health might benefit from a university environment that contains greenery. The campus consist of the total 60,000 sq.mt i.e.75% is the green scapes (excluding residential building).

5.4.3 INDOOR PLANTATION





FIGURE 13: Plantation inside the Department to provide soothing and healthy atmosphere.

5.4.4 TREE DIVERSITY

Table 4: List of trees present inside the university campus along with their botanical names

S.No.	Local & Common Name	Scientific Name of Trees	Classification
	of Trees		
1.	African Tulip Tree	Spathodeacampanulata Tree	
2.	Aggai	Bryophyllumpinnatum	Tree
3.	Akohar	Myrica Esculenta	Tree
4.	Akola	Alangiumsalviifolium	Tree
5.	Amaltas	Cassia Fistula	Tree
6.	Amrood	Psidium Guajava	Tree
7.	Anjir	Ficuscarica	Tree
8.	Apple Blossom Tree	Malus Domestica	Tree
9.	Arjun Tree	Terminalia Arjuna	Tree
10	Ashok	Saracaasoca	Tree
11.	Asna	Terminalia Elliptica	Tree
12.	Bada Nimboo	Citrus Limon (L.) Osbeck	Tree
13.	Badigumchi	Adenantherapavonina	Tree
14.	Bahera	Terminalia Bellirica (Gaertn.)	Tree
15.	Bailewa	Strychnos	Tree
16.	Ban Khajur	Urostigma Subgenus	Tree
17.	Ban Naranga	Suregada Multiflora	Tree
18.	Barhal	Artocarpuslacucha	Tree
19.	Barun	Crataevanurvala	Tree
20.	Basant Rani	Tabebuia Rosea	Tree
21.	Bat Vriksha	Neolamarckiacadamba	Tree
22.	Bead Tree	Adenantherapavonina	Tree
23.	Bel	Aegle Marmelos L.	Tree
25.	Bengal Fig	Ficuscarica	Tree
26.	Bhendi	Thespesia Populnea	Tree
27.	Bhilawa	Semecarpusanacardium	Tree
28.	Blackboard Tree	Alstoniascholaris	Tree
29.	Bottle Brush	Callistemon Comboynensischeel	Tree
30.	Bridal Couch Tree	Hymenodictyonorixense	Tree
31.	Cape Lilac	Melia Azedarach	Tree
32.	Cassia	Cassia Fistula	Tree
33.	Ceylon Oak	Schleicheraoleosa	Tree
34.	Champa	Hedychium Coronarium	Plant
35.	Cheura	Diploknemabutyracea	Tree
36.	Common Jujube	Ziziphusjujuba	Tree
37.	Conessi	Holarrhenamalaccensis Wight	Tree
38.	Coral Jasmine	Nyctanthesarbortristis	Shrub
39.	Crepe Myrtle	Lagerstroemia Indica	Tree/Shrub
40.	Crimson Temple Tree	Plumeria	Tree
41.	Curry Leaf	Murrayakoenigii	Tree

Green Audit Report

S.No.	Local & Common Name of Trees	Scientific Name of Trees	Classification
42.	Cutch Tree	Senegalia Catechu	Tree
43.	Dhaman	Tiliifolia Tree	
44.	Dhamin	Couroupitaguianensis Tree	
45.	Dhau	Anogeissuslatifolia	Tree
46.	Dinner Plate Tree	Pterospermumacerifolium	Tree
47.	Ear Leaf Acacia	Acacia Auriculiformis	Tree
48.	Ear Pod Wattle	Acacia Pycnantha	Tree
49.	Ebony	Diospyros Ebenum	Tree
50.	False Ashoka Tree	Polyalthialongifolia	Tree
51.	False Lime	Suregada Multiflora	Tree
52.	Flamegold	Koelreuteriabipinnata	Tree
53.	Fountain Tree	Spathodea. Spathodea	Tree
54.	Gainti	Indopiptadeniaoudensis	Tree
55.	Gamhar	Gmelina Arborea	Tree
56.	Gandhraj	Gardenia	Plant
57.	Gular	Ficusglomerata Roxb.	Tree
58.	Gulmohar	Delonix Regia	Tree
59.	Gutel	Trewianudiflora	Tree
60.	Har Singar	Nyctantches Arbor - Tristis	Tree
61.	Indian Mahogany	Swieteniamahagoni,	Tree
62.	Indian Tulip Tree	Thespesia Populnea	Tree
63.	Jamun	Syzygiumcumini	Tree
64.	Jangle Jalebi	Pithecellobium Dulce	Tree
65.	Jasmine	Jasminum Officinale	Plant
66.	Jivanputra	Putranjivaroxburghii	Tree
67.	Kadambh	Neolamarckiacadamba	Tree
68.	Kamala	Mallotusphilippensis	Tree
69.	Khaira	Senegalia Catechu	Tree
70.	Kusum	Schleichera	Tree
71.	Lebbek Tree	Albizialebbeck	Tree
72.	Lemon Guava	Psidium Cattleyanum	Tree
73.	Liptus	Eucalyptus Grandis	Tree
74.	Litchi	Sapindaceae	Tree
75.	Litora	Terminalia Arjuna	Tree
76.	Lucky-Bean Tree	Erythrina Lysistemon	Tree
77.	Madeira Mahogany	Swieteniamahagoni Tree	
78.	Mahuwa	Madhucalongifolia Tree	
79.	Money Plant	Crassula Ovata Plant	
80.	Neem	Azadirachtaindica Tree	
81.	Neeli Gulmohar	Jacaranda Mimosifolia	Tree
82.	Orange Jasmine	Murrayapaniculata	Plant
83.	Ram Babool	Acasia Arabica	Tree
84.	Safeda	Populus Ciliate	Tree
85	Sagwan	Tectonagrandis	Tree

S.No.	Local & Common Name of Trees	Scientific Name of Trees	Classification
86.	Sandan	Pterocarpus Santalinus	Tree
87.	Shahtut	Morus Nigra	Tree
88.	Shisham	Dalbergia Sissoo	Tree
89.	Small Flowered Ixora	Ixora Coccinea	Shrub
90.	Toddy Palm	Borassusflabellifer	Tree
91.	Tuut	Morus	Tree
92.	Yellow Guava	Psidium Guajava	Tree
93.	Yellow Oleander	Cascabelathevetia	Plant

5.5 PLANNING, DESIGN AND DEVELOPMENT

Certain initiative had been taken by the authority for development of existing campus as green campus:

Table 5: The initiatives taken by the University for green campus.

Existing Initiatives		Propos	ed Initiatives
I.	Energy efficient measures including energy	I.	The energy audit and water audit of the
	efficient street lighting system with proper		entire campus should be carried out through
	control, low energy fixtures, energy efficient		registered certified professionals and the
	pumping system, energy efficient motors and		base line for the energy and water
	other equipment's, sensors for lighting, use of		consumption should be defined.
	energy star rating equipments, improvement	11.	Utilization of renewable energy system such
	of power factor, use of variable frequency		as solar water heater, solar air conditioning,
	drive and other energy efficient technologies		solar dryers, solar cookers, solar lantern, solar
	should be adopted and reflected in the		pumps, solar traffic signals, battery operated
l .,	proposed master plan.		vehicle, hybrid systems etc. should be
II.	The buildings in the campus have rooftop SPV		explored
l	systems preferably grid connected systems.	III.	Solar cooking systems must be utilized for
III.	The master plan should be site specific and		hostels/hospitals etc. All houses, hostels,
	should have minimum 5 numbers of		kitchen must have solar water heaters
	implementable a detailed project reports as	13.7	(including multi-storied buildings).
	per guidelines of MNRE and BEE under various	IV.	A master plan for the entire campus should
	schemes. An audit report should be prepared		be prepared keeping in view the overall
	and submitted alongwith the master plan.		reduction in fossil fuel based energy by 25%
IV.	An awareness/training workshop should be		within next 5 years by utilizing renewable
	organized in the campus regarding renewable		energy applications, and taking suitable
	energy applications, and taking suitable		measures for energy conservation and energy
	measures for energy conservation and energy	W	efficiency
V.	efficiency The possibility of redecigning of exterior	V.	Suitable architectural retrofit options for
V.	The possibility of redesigning of exterior		building envelop (floor, roof, walls etc.) and
	surfaces of the buildings with energy efficient		energy efficient glasses for windows should
	material may be explored.		be explored and included in the report.

5.6 PROCUREMENT

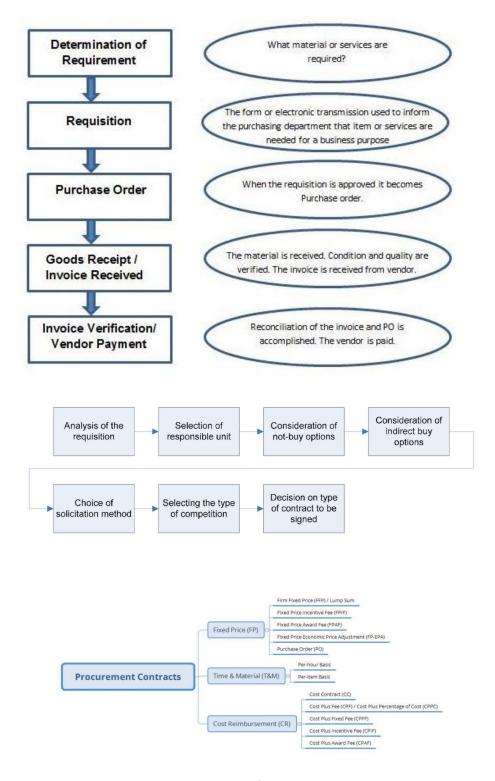


FIGURE 14: Process for Procurement.

5.7 GREEN OFFICE

5.7.1 LIBRARY

The Integral University Library System (IULS) comprises of a Central Library and Departmental Libraries that collectively support the teaching, research and extension programs of the University. The Central Library houses a rich collection of 108966 documents and continuously growing which consists text books, print journals, e-journals, PhD theses, master dissertations, CDs/DVDs and online databases in the fields of Engineering, Management, Computer Science, Medical and Paramedical Sciences, Biotechnology, Agriculture, Applied Sciences, Humanities, Education and Literature etc.

Objectives:

- I. To acquire various kinds of information resources to support the new and existing needs of academic programs in learning, teaching and research and innovation.
- II. To provide the information of the University community with a high quality, innovative and excellent information services that fulfill the information requirements of the University Community and to meet their high expectations.
- III. To provide information literacy programs/ library skill sessions in different modules in order to enable the users identify, search, locate, evaluate and use the information effectively.
- IV. To maintain quality access to the local as well as external resources using the state of- the- art technologies.



FIGURE 15: Multi - Storey Library With Proper Seating Arrangements And Advancement Of Technologies .

The Computerization & Automation of the Library System:

Considering the importance of computerization in the library house-keeping operations such as acquisition, OPAC, circulation, serials control, multimedia and web based inquiry; the library is fully automated by using internationally reputed integrated library system software named Koha. More than Ten (10) PCs are dedicated exclusively to the users for online public access catalogue (OPAC) with

facilities for various search options like by author, title, subject keyword, accession numbers and articles, along with search combination of Boolean operators.

The Central Library has a very good collection of print as well as online journals. IP based campus wide access to online journals and e-books are available through E-Shodh sindhu Digital Library Consortium as well as other leading international publishers. More than 15 PCs are exclusively reserved in the Digital Resource Center to access e-resources in the Central Library.

The library also has a very rich collection of digital resources i.e., CDs and DVDs and Pen drives on many subjects which are made available from Digital Resources Center.

All the books available in the library are Bar-coded for automated check in and check-out and helping to achieve maximum efficiency in providing accuracy, speed and reliability. It is very helpful in providing Circulation statistics of the books and also helping in answering different queries such as history of issue and return of books, most issued books, books in a great demand etc.

The library has taken visible measures in making use of ICT advancements. The library has:

- Wi-Fi connectivity
- LAPTOP zone
- Internet facility for accessing on-line databases
- New HP 3330Pro server was installed in January 2015, with 500 GB hard disk capacity, Data base server and backup server 500 GB with the storing capacity of 1TB.
- 15 PCs for providing internet access facility to students
- 15 PCs provided for professional staff in working areas
- 10 OPAC Terminals
- Barcode Technology for Circulation Counter
- 2 Scanners for the digitization
- Web OPAC and Integral University Library portal for remote access of library catalog
- CCTV Servillance

Central library is housed in two floors of a multi story building which is located in the heart of the university campus.

- Total area of the library 4000 Sq.Mts.
- Total seating capacity: 550
- Lounge for browsing and relaxed reading: 900 Sq.Mts.
- Digital resource centre for accessing e-resources:150 Sq.Mts.
- Three reading halls with 300 seating capacity, which is kept open all working days
- Reserved area for faculty, researchers and differently abled.

5.7.2 AUDITORIUM

The State Of The Art Auditorium Has Ultra Modern Acoustics & Frequently Hosts National & International Events.



FIGURE 16: Central Auditorium along with other numbers of auditorium in the unit.

5.7.3 BANK FACILITY

Punjab national bank provides all banking facilities including lockers & 24x7 atm in campus. The bank also extends education loan to students. For the students and staff residing in the campus, full branch of Punjab National Bank and ATM facility of is available.



Figure 17: Facility of Bank and ATM within the campus.

5.7.4 SHOPPING CENTER



FIGURE 18: the shopping complex consist of the stationary, clothing, fooding and printing shops.

The shopping centre has a number of stores catering to necessary commodities such as books, stationery, vegetables, milk snacks & other refreshment items.

5.7.5 POST OFFICE

The campus also consist of Post Office for the student and the faculty member that make the work easier .To make postal communication easy, university set up a post office in the campus.



FIGURE 19: Post Office beside the Punjab National Bank.

5.7.6 CAFETERIA

There are three canteens functioning in the University to serve the huge crowd of students. The total capacity of these three canteens are 450. Staff members and the students share the canteen with separate sitting areas. These three canteens are located at different locations in the University. One is located opposite to Academic Block -B, second one is located in the parking area and third is at University Medical College Premises.



FIGURE 20: Canteen are neat and clean to maintain hygiene.

Well maintained canteens in the campus provide students with a variety of indian, continental & asian cuisines.

5.7.7 PLAY GROUND

Integral University has its dedicated playground for playing Football, Cricket, Basketball, badminton, Hockey and Tennis etc. Apart from outdoor games university provides facility to play indoor games as well. During the annual Fest "Fiesta", University organized its well know Sports Meet every year.

5.7.8 HOSPITAL

Services available for indoor wards:

Medicine: 120
 Surgery: 120
 Pediatric: 60
 Orthopedic: 60

5. Obstetrics & Gynecology: 60

6. Ophthalmology: 30

7. ENT: 30

8. T.B. & Chest: 109. Psychiatry: 1010. Dermatology: 10

Other Services:

- Intensive Care Unit
- Emergency/ Casualty medical services
- Blood Bank
- Operation Theatre :
- There are total 9 (nine) operation theatres. The operation theatres are well equipped and are for surgical, Orthopedics, ENT/ OPH/ Obst cases. Besides, there a minor OT and Labour Room.
 - Support Services:
- Central Kitchen
- Central Laundry
- Central Sterilization Unit

<u>Diagnostic Services</u>:

The hospital has its own diagnostic services which consists of Pathology, Microbiology and Radiological facilities comprising of CT Scan Machine, 300mm X-ray, 500mm X-ray, 800mm X-Ray and Portable X-ray Machines besides four Ultrasound(USG) Machines.

Staff:

The Institute has got a team of dedicated specialists in various departments who are committed for patients care and improving medical education. This is supported by necessary nursing and other paramedical staff.



FIGURE 21: Provision of Hospital within the campus serve the students and the faculty free of Cost.

5.7.9 SECURITY

Integral university campus has 24x7 closed circuit tv network security & surveillance system managed by the security department equipped with wireless communication system. Awell equipped security fleet is assigned to patrol the campus to ensure 24x7 security.

5.7.10 TOILET

In every department a service core has been provided which is running from ground floor to top most floor and the service core have separate toilet for male and female as per standards.



FIGURE 22: Toilets are provided in the service core.

5.7.11 ANTI - RAGGING CAMPUS

As per the directives of Medical Council of India, the following steps have been undertaken for prevention of ragging in the IIMS&R campus and hostels for the academic year of 2018-19. Terms of reference of the functioning of Anti Ragging Committee:

1. To make all the inmates and employees of the institution and students in particular aware of the dehumanizing effect of ragging and strict policy of IIMS&R of the Integral University to manifest a ragging free campus.

- 2. To take undertaking from all the employee of the institution including hostel employee or employee running the canteen, hostel security, watchman &ward staff. An undertaking that any incident of ragging in any part of the campus will be reported to anti-ragging helpline number of the IIMS&R or any of the anti –ragging committee members and anti ragging squad. Those who report any incident of ragging will be appreciated.
- 3. The students at the time of admission will be briefed about the menace of ragging and necessity of reporting the incident. So that, it can be prevented in future. Accordingly, an undertaking will be taken from the new entrants and their parents to report such incident and not to indulge in such type of activities.
- 4. Banners/Poster and publicity material will be displayed with subject that ragging is cognizable offence and the punishment is severe, so student should not indulge in such activities and if observed in the campus to report the same to the Anti-Ragging Helpline.
- 5. An undertaking will also be taken from the senior student of the IIMS&R or University stating that they will not indulge in ragging activities. Along with the students, the parent of the student will be informed.
- 6. An Anti-Ragging Squad is also formed with total 19 members and their responsibility.

Squad Responsibility:

Terms of reference of the functioning of Anti Ragging Committee:-

- 1. All The members of the squad are to be vigilant regarding any untoward activities in the campus or hostel.
- 2. Members are requested to organize an efficient surveillance system which should include the watch & ward staff, hostel employee of all grades to inform any suspicious activities to the members.
- 3. The members should verify and take specific action with the information to Coordination, Dean/Director.
- 4. The member should also organize meeting to sensitize the inmates on the evil of ragging.
- 5. They are also to conduct regular & surprise inspection of the hostel etc.
- 6. A weekly report has to be submitted on surveillance of the campus related to any incidents.

The campus consist of numbers of "Anti - Ragging Signage" board all over the campus.



FIGURE 23: Awareness against ragging through poster.

5.8 GREEN LAB

Hazardous Chemical Waste

Educate the campus community to minimize the drain disposal of chemicals and the use of toxic substances in work shops, research labs and the classrooms. Reduce hazardous wastes and properly dispose materials for recycling waste oil, used batteries and solvents. Convert chemistry labs to microscale.

5.9 GREEN IT

5.9.1 COMPUTER LAB



FIGURE 24 : Students while using the computer lab



FIGURE 25: Number of labs inside the computer lab with the natural skylight to provide good ambiance .

5.9 TRANSPORT

5.10.1 PARKING





FIGURE 26: Parking for motar cycles , cars and ambulance are provided.

The campus have parking facility in pockets . Chunks of Parking can be seen outside of the departments and a separate parking is also seen inside the campus . The campus have separate parking for bi - cycles , motor cycles , cars , ambulance and buses.

5.10.2 BUS TRANSPORT FACILITY

Integral University offers transport facility to its students and faculty members on very nominal charges. University transport has very vast network in the city to pick and drop the students and faculty members from their places.



FIGURE 27: Parking for buses and cars.

5.10.3 CAR LESS CAMPUS



FIGURE 28: Initiating pedestrian walkways more with in the campus.

6. MOBILITY

6.1 UNIVERSAL DESIGN









FIGURE 29: Provision of Ramp with proper handrails at every entry/exit of the Department.



FIGURE 30: Toilets for physically disabled people.

6.2 BI CYCLE FRIENDINESS

The university is planning to upgrade a campus that supplies students with free bike repair resources, covered bike parking, discounted equipment, classes on bike safety and group rides.



Figure 31: Photo of Bi Cycle stand and its route.

Table: 2 The University remark as per the audit observation.

SI No	Criteria	Indicator	Sub Indicator	Score
	Energy, Carbon	Energy	Employment of Energy Manager	4
	and Climate Change	Conservation	Energy efficiency standards for new construction and refurbishments	3
			Energy efficiency purchasing standards	5
			Staff energy conservation training Improved space utilisation to avoid new construction or heating/cooling of underutilised space	3
			Thermal comfort policy (e.g. widening heating/cooling temperature settings)	2
			Financial strategies to assign energy cost incurred - and savings achieved - to the responsible cost centres	4
			Energy / climate change awareness programs	4
			Establishment of "energy champions" network across campus building	2
		Energy	Detailed energy audit to identify prority areas	2
		efficiency	Periodic recommissioning and building tuning to optimise energy efficiency	3
			Building retrofitting	1
			Lighting	4
			Heating, ventilation and air-conditioning (HVAC)	4
			Laboratory ventilation and fume hoods	3
			Installation of building management and control systems (BMCS) and sub-metering for major building energy uses, energy use displays.	1
		Renewable and	Purchase of certified "green power".	5
		alternative	Installation of photovoltaic, wind, biomass, etc. systems	4
		energy	Installation of cogeneration and trigeneration.	1
			Fuel switching	1
			University managed plantation program to offset greenhouse emissions.	5
	Water	Water conservation	Employment of Water Manager (can be combined Energy / Water Manager position).	5
			Water efficiency standards for new construction and refurbishments.	4
			Water efficiency purchasing standards	3
			Staff water conservation training (can combine with energy conservation training).	3
			Financial strategies to assign water costs incurred – and savings achieved – to the responsible cost centres.	4
			Water conservation awareness programs – posters, stickers, events and competitions, websites, awards and incentives.	3
			Extension of "energy champions" network to incorporate water conservation.	3
		Water efficiency	Detailed water audit and campus water balance to identify priority areas.	3
			Active maintenance program of early detection and repair of faulty plant, equipment and fixtures	5
			Retrofitting of water saving devices	3

		Underground pipework leak detection and repair.	4
		Use of pervious paving.	2
		Specification of low water use species for campus grounds.	3
		Laboratory water use	3
		Installation of building management and control systems (BMCS) and sub-metering for major building water uses, water use displays	1
	Water reuse and recycling	Capture and reuse of rainwater from roofs and other hard surfaces for non-potable uses (irrigation, laboratories, toilet flushing, cooling towers, construction works, swimming pools, etc.)	3
		Substitution of borewater for non-potable uses, when combined with managed aquifer recharge to ensure more water is returned to the aquifer than extracted.	2
		Installation of greywater recycling system for treatment of kitchen, laundry and shower water	1
		Composting toilets and urine recovery for fertiliser.	1
		Installation of blackwater recycling system to treat sewage for non-potable uses.	1
		Recovery and reuse of fire system test water, vehicle washdown water, etc.	1
Waste	Policy and	Employment of Waste Manager	5
	behaviour change	Sustainable procurement standards which address longevity, durability, repairability, recyclability and recycled content	5
		Financial strategies to assign waste costs incurred – and savings achieved – to the responsible cost centres	5
		Waste management awareness programs	4
		Programs targeting teaching and research to minimise generation of hazardous wastes.	4
	Waste management	Waste characterisation study to identify waste stream components and prioritise response.	3
		Individual staged and prioritised programs for waste minimisation which address each component of the university waste stream according to environmental impact.	3
		Performance-based waste management contracts to specify resource recovery targets. 1 In-house collection of recyclables (e.g. paper / cardboard) where practicable, to support local job creation.	4
		Provision of adequate storage spaces for waste and recyclables.	5
	Closing the loop	Campus based exchange and reuse programs	3
		On-site composting of food and garden organics for reuse on campus grounds.	1
		Campus based programs to process collected recyclables	4
Biodiversity and Ecosystem	Policy, design and	Survey and evaluation of campus biodiversity and ecosystem services	4
Service	development	Extension of campus green space (consolidation / intensification of campus buildings over time, installation of green roofs / walls)	5
		Increase density of campus vegetation, e.g. through additional tree planting	5
		Enhance diversity of campus vegetation. 3 Green infrastructure / ecological engineering projects (green roofs / walls, designed wetlands for wastewater treatment, phytoremediation of	5

	I		
		contaminated land, indoor landscapes for biofiltration / indoor	
		environmental quality). Development of productive landscape systems (permaculture,	
		aquaponics) to provide food / fibre / timber.	4
		Restorative and enabling landscapes for contemplation,	4
		recreation and wellbeing	7
		Campus grounds and green infrastructure used in teaching and	4
		research	•
	Management	Specify local native species	5
	and	Preserve significant vegetation during building works	4
	maintenance	Avoid monocultures	3
		Avoid environmental weeds	5
Planning,	Campus	Campus-specific sustainability objectives included in all campus	4
Design and	Planning	planning instruments	·
Development		Space planning at campus, precinct and building scale to	4
		optimise flexibility, adaptability, diversity and multifunctionality	
		of spaces.	
		Investigation of non-building solutions to accommodate university growth.	3
		Physical accessibility of the campus to the external community,	4
		different age groups and people with a disability	4
	Campus	Design to the appropriate green building rating system as the	3
	Building	minimum starting point.	3
	Design	Each new building / major refurbishment to incorporate at least	4
		one innovative sustainability feature beyond the requirements of	
	-	the green building rating system.	
	Campus	Construction contractors certified to ISO 14001	4
	Construction Management	Contractor staff inducted to the university's sustainability	3
	Wianagement	management system.	
		Management of campus construction/demolition to minimise on- and off-site impacts	4
Procurement	Developing	Evaluation of university contracts for procurement of goods and	3
	Specification	services on the basis of cost, complexity and actual/potential	5
	•	sustainability impacts to determine priorities.	
		Staged development of sustainable procurement standards /	2
		specifications based on identified priorities	
		Inclusion of sustainability criteria in tender specifications for	2
	Tender	procurement of goods and services. Inclusion of sustainability criteria in tender evaluation procedures	
	Evaluation	inclusion of sustamatinity effects in tender evaluation procedures	3
	Contract	Inclusion of sustainability objectives and targets in contract	3
	Management	management documentation, and regular monitoring of progress.	3
		Second party" audits of providers to drive continual improvement	3
		through the supply chain	
Green Office	Policy and	Employment of Green Office Manager.	3
	behaviour	Sustainable procurement standards for office equipment and	3
	change	consumables	
		Education, training and awareness programs	4
		Establishment of "Green Office champions" network across	4
		campus buildings as the vehicle for the energy and water	
	0.07	conservation network	
	Office Practices	Campus- wide audit of office practices disaggregated to	2
		department level	

		Establishment of department-specific targets to drive continual improvement	2
Green Lab	Policy and	Employment of a Green Lab manager.	3
	behaviour	Development of a "green chemistry" program.	3
	change	Sustainable procurement standards for lab equipment and consumables.	2
		Green Lab online and face-to-face training.	2
	Laboratory Practices	Campus wide audit of university laboratories – energy, water, input and output of chemicals, hazardous waste management.	3
		Establishment of lab-specific prioritised targets for improvement.	3
		Development of online tracking system for chemical management (inputs, processes and outputs).	2
		Establish lab equipment / consumables exchange program to minimise waste.	3
	Maintenance and capital	Development of green laboratory design standards, e.g. referencing Labs21.	2
	works	Laboratory ventilation and fume hoods	3
		Laboratory water use	3
		Secure storage spaces for hazardous wastes to minimise risk of spillage / leakage.	3
Green IT	IT Policy and behaviour	Adoption and implementation of IT purchasing standards (e.g. IEEE, EPEAT, etc.).	4
	change	"Switch off when not in use" awareness programs	3
		Standard operating environments (hardware and software)	3
	IT Management and Capital Works	Reduce frequency of computer replacement programs – substitute software upgrades for hardware upgrades where possible.	3
		Centralised / dedicated server space(s) to avoid dispersing server heat loads across multiple buildings	4
		Computer reuse program, e.g. donation to community groups / schools.	2
		E-waste program.	4
		Ensure energy saving features are enabled.	2
Transport	General	Employment of Transport Manager.	5
		Development of university transport policy	3
	Commuter	Student housing and services on or close to campus.	5
	Transport	Awareness and promotion of alternatives to private transport – posters, stickers, events and competitions, websites, awards and incentives.	2
		Regular liaison with public transport providers to optimise services to the campus.	2
		Incentives for staff committing to forego use of private commuter transport.	2
		Secure, undercover bike racks, and shower facilities, lockers and bike repair workshop for cyclists.	4
		Car pooling programs. Reduction of car parking spaces and provision of dedicated spaces for car pool vehicles and electric vehicles (and also charging points)	2
		Establishment of shuttle bus service where the university has multiple campuses.	3
		Acknowledgement that for reasons of social equity, disability, etc. some staff and students will still need to use private vehicles	2

			to access the campus.	
			Pedestrian-friendly campus to minimise internal motor vehicle	3
			trips	
		Travel on	Acquisition and promotion of video conferencing technology to	2
		University	staff and students.	
		Bussiness	University managed revegetation program to offset emissions for	2
			air travel, and/or commitment to "third party" carbon credit /	
			carbon offset program.	
			Purchase of fuel efficient vehicles for university fleet.	2
			Regular maintenance to optimise motor vehicle fleet fuel	4
			efficiency	
a Sco	a Score (1= Very Not Good; 2 = Not Good; 3 = Moderate; 4 = Good; 5 = Very Good)			
b To	tal Score (10 – 17	= Very Not Good	; $18 - 25 = \text{Not Good}$; $26 - 33 = \text{Moderate}$; $34 - 41 = \text{Good}$; $42 - 41 = \text{Good}$; $42 - 41 = \text{Good}$	- 50 = Very
Good	d)			

7. SUGGESTIONS AND RECOMMENDATIONS

- 1. More than 12 acres of land area is available to raise horticulture gardens, fruitbearing trees and shade-giving trees.
- 2. Compostable solid waste shall be collected and deposited in solid waste collection tanks. These wastes shall be profitably converted into compost and applied to gardens and trees to reduce the application of chemical-based fertilizers and pesticides.
- 3. Regular checking and maintenance of pipelines are done to control water wastage.
- 4. Energy-efficient measures such as replacement of all incandescent bulbs with LED lamps, old electrical regulators of fans with energy-efficient electronic regulators, air-conditioning units with all-star rated systems need to be undertaken.
- 5. Students from the different Department shall be trained as e-waste managers to manage e-waste. These e-managers shall be in constant touch with schools, orphanages and parish houses through social media and inform them of the outdated computer systems that shall be used by them. They also shall dispose of the less efficient, damaged and non-functioning e-wastes to the vendors.
- 6. Biogas plants shall be installed in the campus using solid waste and night soil generated from the Girls Hostel in the campus. The biogas shall be used by the Hostel Kitchen and College canteen.
- 7. Water quality testing laboratory will be installed in one part of the laboratory to test the potability of the drinking water to ensure the students are free from water-borne diseases. All the water taps shall be fitted with high-efficiency aerator taps to reduce wastage of water. All toilets shall be fitted with dual flush water closets, which will reduce water consumption by 40%.
- 8. Environment education shall be imparted to all college students through 1-hr life-skill classes once a week. This will create wide-level environment consciousness among the student community. They will be sensitized to encourage pillion riding with their peers or use public transport instead of two wheelers. Moreover, they will also motivate their parents to replace all the incandescent or fluorescent bulbs with energy-efficient LED bulbs.
- 9. Though water is used nominal in the University, but to ensure a further minimal rate, placards and warnings are set up in the University premise.
- 10. the University has put several posters and reminder notes in classrooms and other relevant places to turn off electric appliances when not in use. Encourage staff, students and conference

- guests to save energy through visible reminders, incentives and information to increase awareness. This particularly concerns turning off electrical appliances when not in use
- 11. The University tries to put the main switch off when there is no need of electricity. Monitor and understand the importance of different sources of University energy consumption
- E-waste generated in the campus is very less in quantity. Administration conducts the awareness programs regarding E-waste Management with the help of various departments. The E-waste and defective item from computer laboratory is being stored properly. The institution has decided to contact approved E-waste management and disposal facility in order to dispose E-waste in scientific manner. Recycle or safely dispose of white goods, computers and electrical appliances.
- Use reusable resources and containers and avoid unnecessary packaging where possible.
 Always purchase recycled resources where these are both suitable and available
- Campus is located in the vicinity of many trees (species) to maintain the bio-diversity. Various tree plantation programs are being organized at University campus and surrounding villages through NSS (National Service Scheme) unit.
- This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various type of indigenous species of ornamental and medicinal wild plant species.
- Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
- Create awareness of environmental sustainability and take actions to ensure environmental sustainability.
- Establish a University Environmental Committee that will hold responsibility for the enactment, enforcement and review of the Environmental Policy. The Environmental Committee shall be the source of advice and guidance to staff and students on how to implement this Policy.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
- Celebrate every year 5th June as 'Environment Day' and plant trees on this day to make the campus more Green.
- Indoor plantation to inculcate interest in students, Bonsai can planted in corridor to bond a relation with nature.
- Green library should be established.

8. REFERENCE

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APPENDIX-1

DEPARTMENT OF ARCHITECTURE AND PLANNING

List of Departmental Non-Consumable Assets: 2018 - 2019

Sl.No.	Name of item	Qty.	SI.No.	Name of item	Qty.
A	FURNITURE & FIXTURE		В	COMPUTER & ACCESSORIES	
1	Almirah glass door	55	34	Computer desktop	82
2	Almirah Plane	31	35	Internet hub	08
3	Book Shelf	07	36	Plotter	01
4	Fan (Ceiling)	204	37	Printer	11
5	Computer Chair	94	38	Scanner	05
6	Computer Table	55	39 🛪	UPS(Online & Offline) 3+13	16
7	Drawing Board (with 164 student's Lockers)	265			
8	Drawing Board(BFA)	40	С	OFFICE EQUIPMENTS	
9	Chair(Executive)	08	40	Photocopier	01
10	Chair(Visitor)	21	41	Telephone set	04
11	Chair(Wooden)	17	42	Water cooler	01
12	Chair(PVC)	110	43	First aid box	01
13	Opaque box with computer	01			TO THE PARTY OF TH
14	Partition Panel (Board)	07	D	ELECTRIC EQUIPMENT	
15	Pigeon Hole Board	03	44	Projector(Working)	03
16	Pinup Board	04	45	LCD (T.V.)	01
17	Table Plane 2.5x4(0 Drawer)	0,9	46	DVD Player	01
18	Table 2.5x4(With Drawer)	25	47	Mike(Cord Less)	01
19	Rack (6 Shelves)	31	48	Sound machine	01
20	Stool Steel	220	49	Speaker	04
21	Donkey Chairs (BFA)	40	50	CC Camera	04
22	Table 4'x8'	13			
23	Green Board	09	E	ELECTRICAL EQUIPMENT	
24	White Board	02	51	Tube light with fitting	176
25	Magazine/News paper stand	03	52	Vacuum cleaner	01
26	Stool Wooden	45	53	Air blower small	01
27	Podium	01		*	
28	Sofa (Steel,3 setter)	02	F	FIRE SAFETY EQUIPMENT	
29	Soft Board	74	54	Fire extinguishers	07
30	Centre Table(Glass top)	02			
31	Table Executive (Set)	07	G	AIR CONDITIONERS	
32	Sofa Set Complete with	01	-55	AC (Split) with stabilizer	06
33	glass top (Library) Cushion Chars (Fibre - Lib.)	70	56	AC(Window) with stabilizer	01

3/3/19 /22/05/19

22/5/19 22/05 28/05

A - SURVEYING LAB (List of Equipments, Instrument, Accessories)

SI. No.	Name of item	Nos.	Remarks
1	Arrow 4mm dia (48cm long)	48	
2	Alidade (Telescopic)	1	
3	Binocular	1	
4	Box Sextant	1	
5	Clinometer (Indian pattern type)	1	
6	Cross staff with steel pole	4	
7	Dumpy level with stand	11	I.O.P & TILTING TYPE
8	Leveling Staff (3m,4m)	6	Folding & telescopic type
9	Measuring chain (30m)	2	G.I.
10	Measuring tape (30m+5m)	3	
11	Pantograph	1	
12	Plane table (with accessories)	4	
13	Planimeter	1	
14	Prismatic Compass(100mm dia,with stand)	2	
15	Ranging rods (3m, 2m)	18	M.S.
16	Theodolite (175mm, with stand)	1	

B - MATERIAL TESTING (Field Equipments)

Sl. No.	Name of item	Nos.	Remarks
1	Cube Mould (150x150x150mm)	4 /	C.I.
2	Le-chatalier's mould	1/	Brass
3	Mallet	4	Wooden
4	Sieve Set-I.S.0460 (Course agg.)	1	Set
5	Sieve Set-I.S.0460 (Fine agg.)	1	Set
6	Slump test apparatus (Abraham)	1	Set
7	Vi-cat's apparatus	1 -	Set
8	Material Testing Machine (UTM)	I NIL-	Co-ordinate with material testing lab of Civil Engg. dept.

C - ENVIRONMENTAL LAB

SI. No.	Name of item	Nos.	Remarks
1	Digital Thermometer	2	
2	Dry & Wet Thermometer	14	
3	Hygro Meters	6	,
4	Lux Meter	1	
5	Measuring Flask	3	Glass & Fiber
6	Rain Gauge	4	Fiber & Metel
7	Stop Watch	1	
8	Thermometer (Max & Mini)	6	
9	Anemometer	1 /	Three Cup Counter
	the same and the s		

D - PHOTOGRAPHY LAB

S.No.	Name of items	No.	Remarks
1	Plotter (HP Designjet - 130)	1	Installed at CADD Lab
2	LCD (Samsung, 66cm)	1	Installed at Photography room
3	D.V.D. Player (Samsung, 5.1ch.)	1	
4	Pro - Lights	2	

E - MODEL MAKING LAB

S.No.	Name of items	No.	Remarks
1	Gen. Model making tools		
2	Thermocoal cutter	1	4
3	Work bench with bench-wise	02	
4	Hot Glue gun/ cutting shaping tools		

F- MATERIAL MUSEUM

General construction material displayed in 11nos. Open racks

Rack No.	Rack Tittle	Material Description	
1	Timber Products	Ply boards, battens boards, mica & laminates etc.	
2	Wood/Timber	Different samples of hard & soft woods.	
3	Stone/ Aggregates	All kind samples of stones for flooring and other constructive works, sample for fine & aggregates.	
4	Glass & Glass products	General samples of glasses for paneling, partition and other specific purpose.	
5	Terra - Cota/ Tiles	Tera - cota samples of different pattern and style for roofing, wall cladding and other decorative purpose. Glazed and verified tiles for roofing and other specific work.	
6	Plumbing	Gen. Plumbing fittings like tee, sockets, elbow, union ar reducers of G.I.etc.	
7	Reinforcing material	Different types of bars, internal & external ties showing reinforcing details for column and stairs etc.	
8	P.O.P/ Gyp. Boards	Different kind of POP and Gypsum board samples are available for ceiling and partition purpose.	
9	Falls Ceiling Accessories	Aluminum fixers and fasteners, channels, hooks along sample sections.	
10	P.V.C. Doors	Sections for doors and windows along paneling system etc	
11	Sanitary Fittings	Gen. Sanitary items viz. Socket, elbows and pipe samples.	
12	Electrical Items	Gen electrical items viz. Switches, wires, boards and holders.	
13	Masonry Tools	Masonry tools like trowels, floats, set square and mason's hammer etc.	
14	Carpentry Tools	Gen. Carpentry tools for model making purpose.	
15	Wooden Doors & windows	Wooden doors and windows scale models are available within material museum.	

Er. U. P. Pandey Asst. Professor (Incharge)

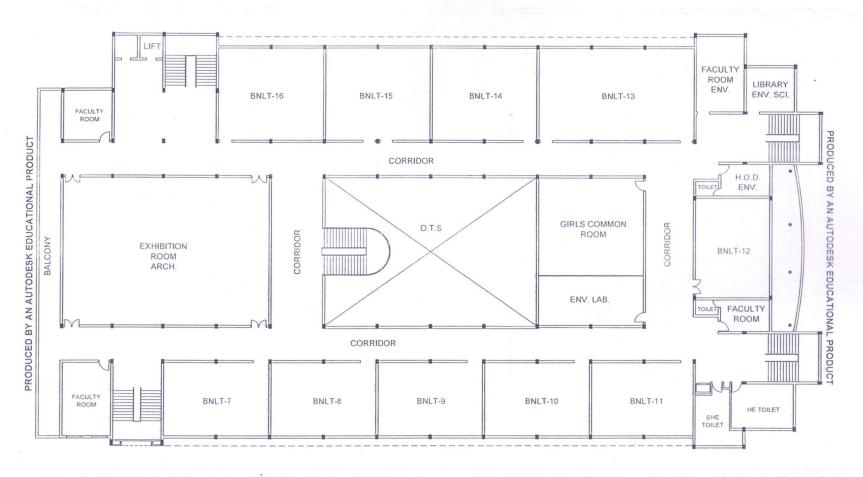
Bilal Ahmad Lab Asst.

INTEGRAL UNIVERSITY, LUCKOW FLOOR PLAN

-					The state of the s	Rooms Details	
No	Sno	Floor	Room No	Old Room No	Room Type	Name of Office/Lab/Room	Department
7	1	GF	F-001		Faculty Room		Civil Engg
2	2	GF	F-002		Faculty Room		Civil Engg
33	3	GF	F-003		Lab	Electronics Circuit and Simulation lab	Elec & Comm
4	4	GF	F-004		Library	Departmental Library	Civil Engg
35	5	GF	F-005	GLT-2	Class Room		Civil Engg
6	6	GF	F-006	GLT-1	Class Room		Civil Engg
77	7	GF	F-007		Lab	Survey Lab	Civil Engg
-8	8	GF	F-008		Lab	Environment Lab	Civil Engg
9	9	GF	F-009		Lab	Environment Lab - 1	Civil Engg
0	10	GF	F-010		Lab	Advance Material Testing Lab	Civil Engg
11	11	GF	F-011		Lab	Geotech / Geology lab	Civil Engg
12	12	GF	F-012		Faculty Room		Civil Engg
13	13	GF	F-013		Faculty Room		Civil Engg
14	14	GF	F-014		Lab	Concrete / Material testing lab	Civil Engg
15	15	GF	F-015		Lab	Transportation lab	Civil Engg
16	16	GF	F-016		Lab	Hydraulic lab	Civil Engg
7	17	GF	F-017		Faculty Room		Civil Engg
18	18	GF	F-018		Office	Head of Department	Civil Engg
9	1	FF	F-101		Faculty Room		Elec & Comm
20	2	FF	F-102		Faculty Room		Elec & Comm
21	3	FF	F-103A		Common Room	Girls Common Room	Elec & Comm
22	4	FF	F-103B		Faculty Room	Female Faculty Room	Elec & Comm
23	5	FF	F-104		Faculty Room	Tomale Faculty Feeting	Elec & Comm
24	6	FF	F-105	FLT-2	Class Room		Elec & Comm
25	7	FF	F-106	FLT-1	Class Room	CE/EC	Elec & Comm/ Civil
26	8	FF	F-107	1 21-1	Lab	IC Lab	Elec & Comm
27	9	FF	F-108		Lab	Energy Lab	Elec & Comm
28	10	FF	F-109		Lab	EDC Lab	Elec & Comm
29	11	FF	F-110A		Lab	Microwave Lab	Elec & Comm
30	12	FF	F-110B		Lab	CO Lab	Elec & Comm
-31	13	FF	F-111	,	Lab	Communation / MI Lab	Elec & Comm
32	14	FF	F-112		Faculty Room	Communation / IVII Lab	Elec & Comm
33	15	FF	F-113		And the second s		Elec & Comm
33	16	FF	F-113		Faculty Room	Machine Lab	
100	-				Lab	Wachine Lab	Electrical Engg.
35	17	FF	F-115				
	18	FF	F-116		Lab	Electronics Westshap	Elea & Comm
37	19	FF	F-117		Lab	Electronics Workshop	Elec & Comm
38	20	FF	F-118		Lab	Control Lab	Electrical Engg.
29	21	FF	F-119				
40	22	FF	F-120		0.55	List of Department	[] = 0 O = ====
311	23	FF	F-121	-	Office	Head of Department	Elec & Comm
42	24	FF	F-122A		Faculty Room	0.00	Civil Engg
343	25	FF	F-122B		Lab	CAD Lab CE	Civil Engg
44	1	SF	F-201	-	Faculty Room		Civil Engg
45	2	SF	F 202		Faculty Room		Elec & Comm
46	3	SF	F-203A	SL-2	Class Room		Civil Engg
47	4	SF	F-203B		Faculty Room		Civil Engg
348	5	SF	F-203C		Faculty Room		Civil Engg
49	6	SF	F-204	STR-2	Class Room		Civil Engg
50	7	SF	F-205	SLT-2	Class Room		Civil Engg
-51	8	SF	F-206	SLT-1	Class Room		Civil Engg

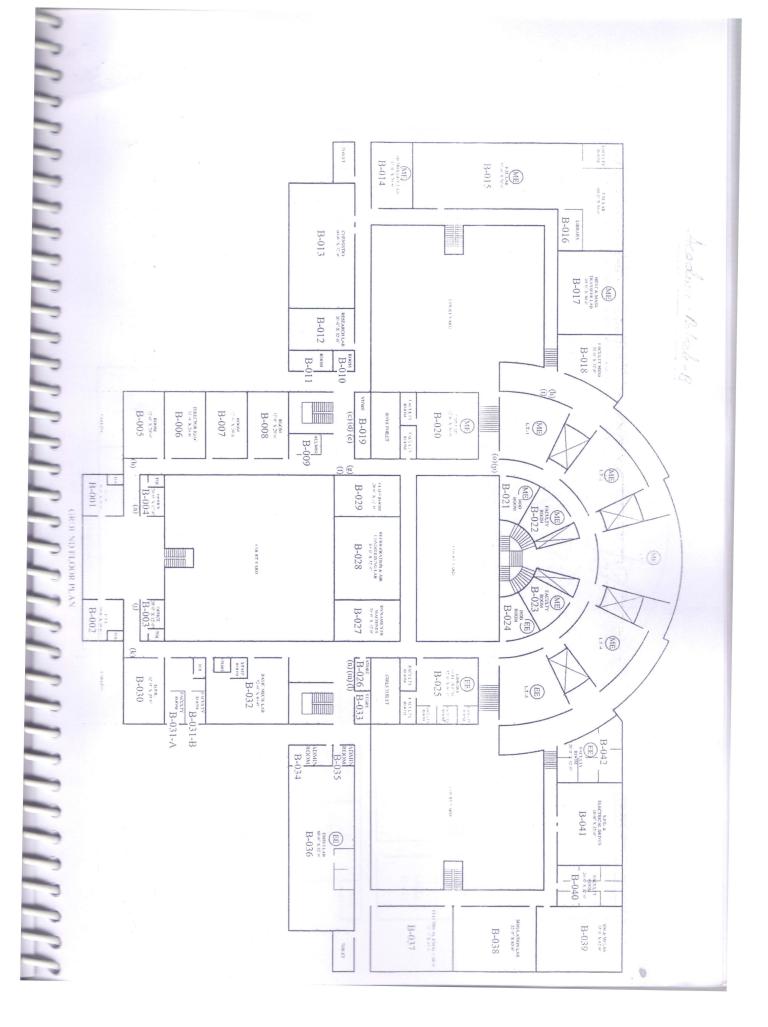
INTEGRAL UNIVERSITY, LUCKOW FLOOR PLAN

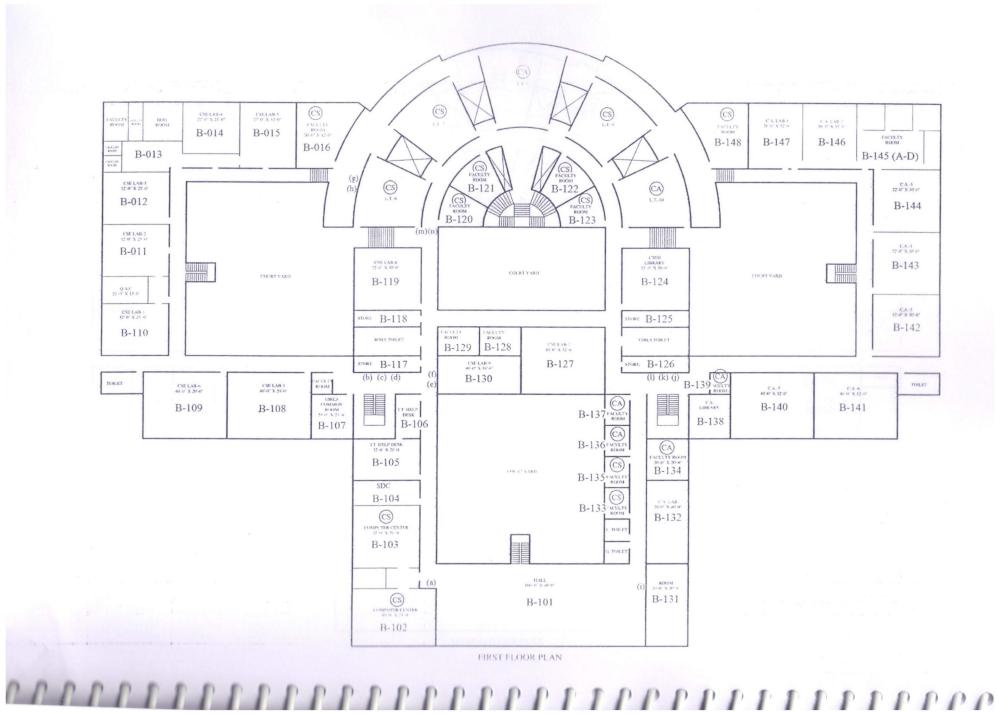
B-Block Rooms Details								
7	S No	Sno	Floor	Room No	Old Room No	Room Type	Name of Office/Lab/Room	Department
	1	1	GF	B-001		Office	Dean Academic	
Į	2	2	GF	B-002		Office	Proctor	
1	3	3	GF	B-003		Office	PA to PVC	
į	4	4	GF	B-004		Office		
į	5	5	GF	B-005		Office	VC (Acting)	
	6	6	GF	B-006		Office	Director (IQAC)	
	7	7	GF	B-007		Room		
	8	8	GF	B-008		Room		
	9	9	GF	B-009		Room		
	10	10	GF	B-010		Office		
	11	11	GF	B-011		Office		
	12	12	GF	B-012		Lab	Research Lab	
ı	13	13	GF	B-013		Lab	Chemistry Lab	
	14	14	GF	B-014		Lab	Metrology Lab	Mechanical Engg.
	15	15	GF	B-015		Lab	FM Lab	Mechanical Engg.
	16	16	GF	B-016		Library	Departmental Library	Mechanical Engg.
	17	17	GF	B-017		Lab	Heat & Mess Transfer Lab	Mechanical Engg.
Ī	18	18	GF	B-018		Mess	Faculty Mess	Mechanical Engg.
ľ	19	19	GF	B-019		Store		
ľ	20	20	GF	B-020	:	Lab	CAD Lab	Mechanical Engg.
ľ	21	21	GF	B-021		Office	Head of Department	Mechanical Engg.
ľ	22	22	GF	B-022		Room	Faculty Room	Mechanical Engg.
	23	23	GF	B-023		Room	Faculty Room	Mechanical Engg.
	24	24	GF	B-024		Office	Head of Department	Electrical Engg.
	25	25	GF	B-025		Library	Departmental Library	Electrical Engg.
	26	26	GF	B-026		Store		
	27	27	GF	B-027		Lab	Dynamics of Machines Lab	Mechanical Engg.
	28	28	GF	B-028	-	Lab	Refrigeration & Air Conditioning Lab	Mechanical Engg.
ĺ	29	29	GF	B-029		Room	Staff Room	
	30	30	GF	B-030		Office	Directorate of Planning & Research	
	31	31	GF	B-031-A		Office	Media	
	32	32	GF	B-031-B		Office	Director (Outreach)	
	33	33	GF	B-032		Lab	Basic Mechanical Lab	Mechanical Engg.
	34	34	GF	B-033		Store		
	35	35	GF	B-034		Room	Admin Room	
	36	36	GF	B-035		Room	Admin Room	
	37	37	GF	B-036		Lab	EMECI Lab	
	38	38	GF	B-037		Lab	Electrical Engg. Lab-II	Electrical Engg.
	39	39	GF	B-038		Lab	Simulation Lab	Electrical Engg.
	40	40	GF	B-039		Lab	EM & MI Lab	Electrical Engg.
	41	41	GF	B-040		Room	Faculty Room	
	42	42	GF	B-041		Lab	SPG & Electrical Drives Lab	Electrical Engg.
,	43	43	GF	B-042		Room	Faculty Room	

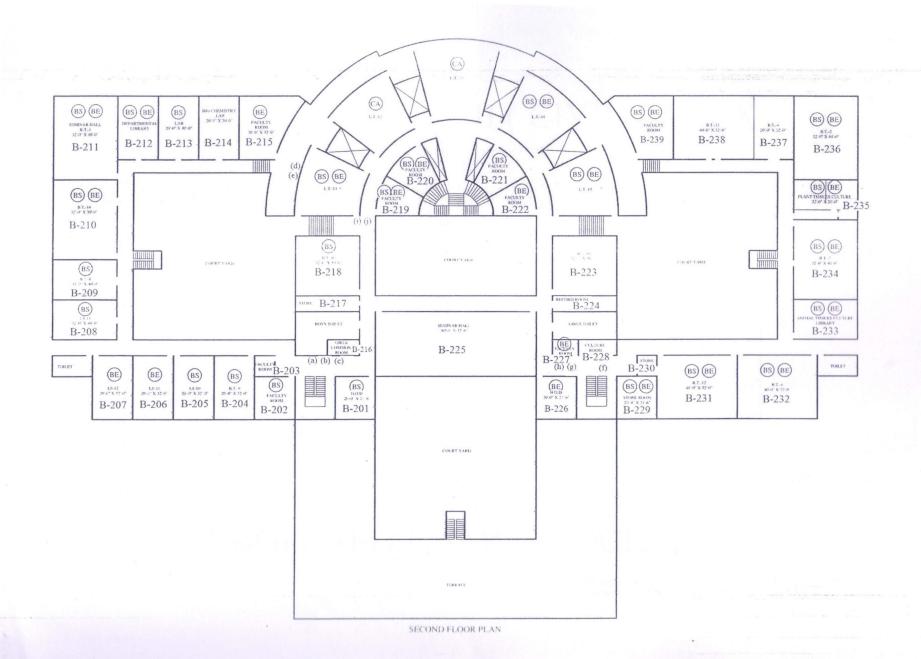


SECOND FLOOR

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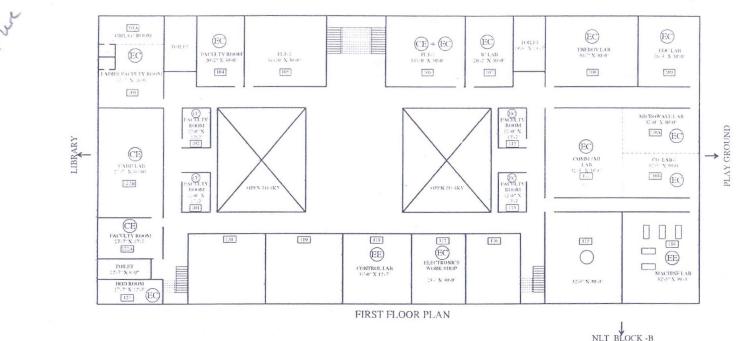


PROPOSED NAME BLOCK -F

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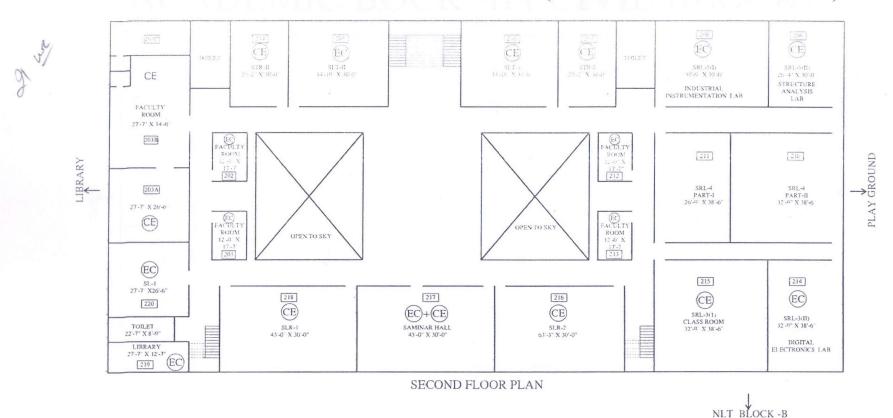
ACADEMIC BOCK -II (CIVIL BLOCK)



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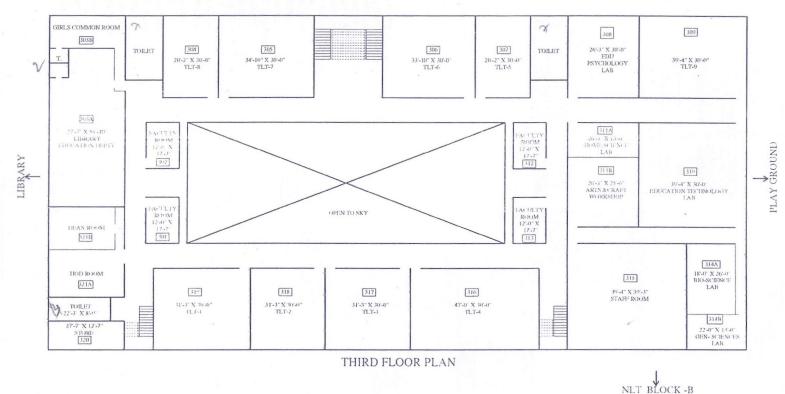
ACADEMIC BOCK -II (CIVIL BLOCK)



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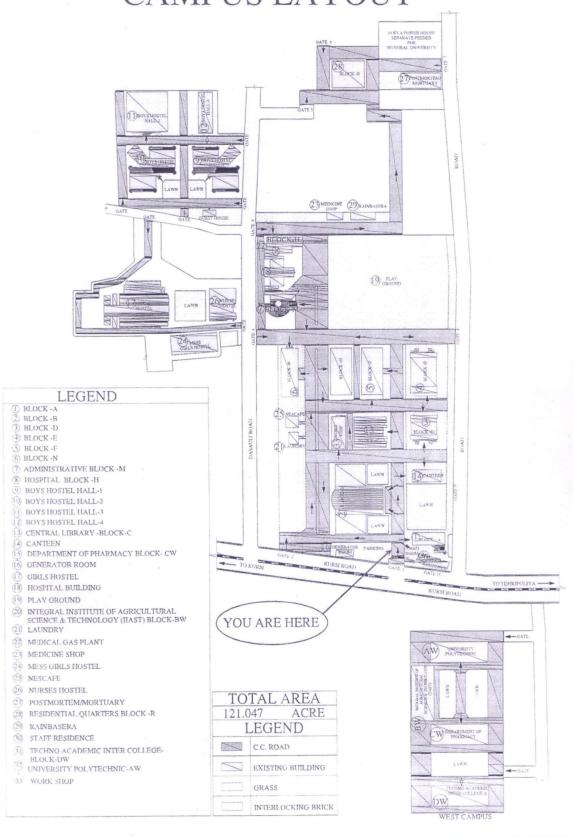
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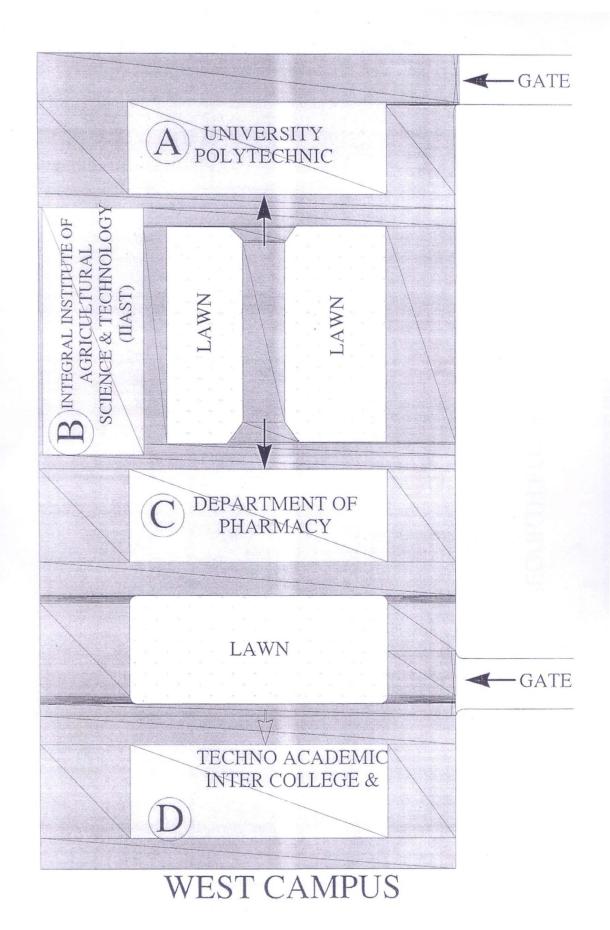


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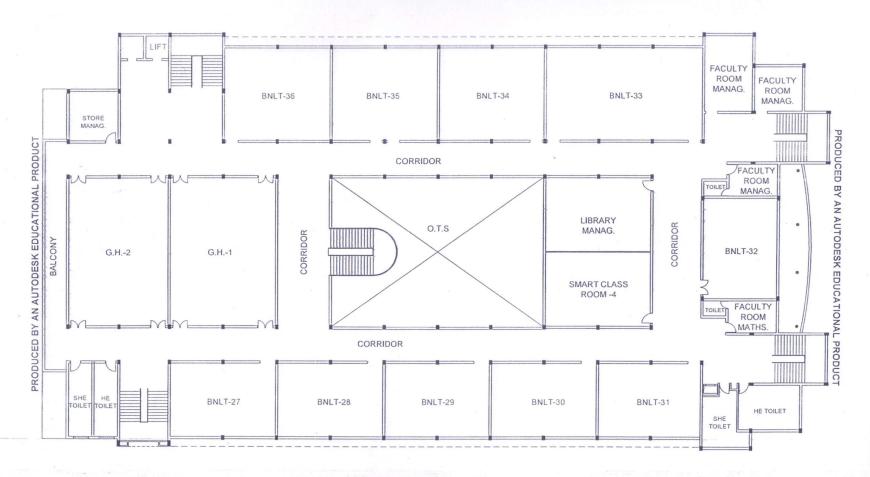
INTEGRAL UNIVERSITY, LUCKNOW CAMPUS LAYOUT





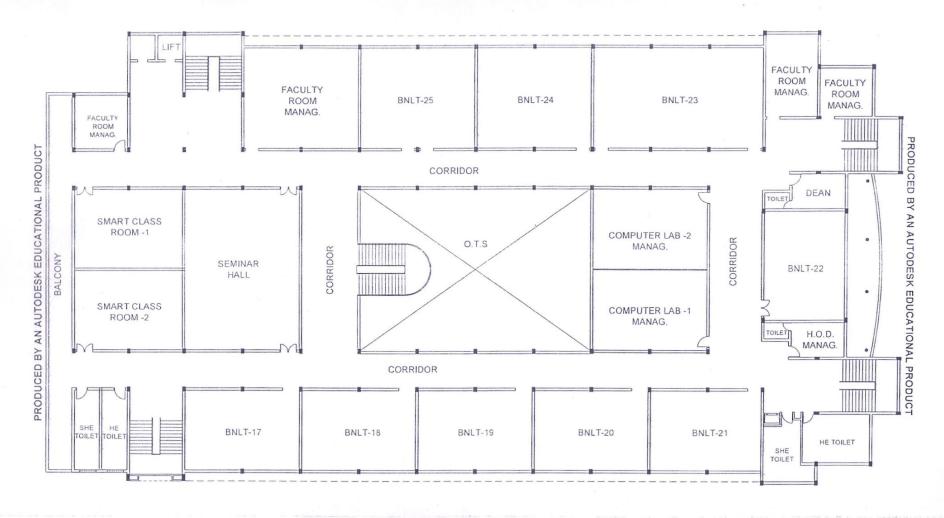
CEREPPOSE CONTRACTOR OF STREET

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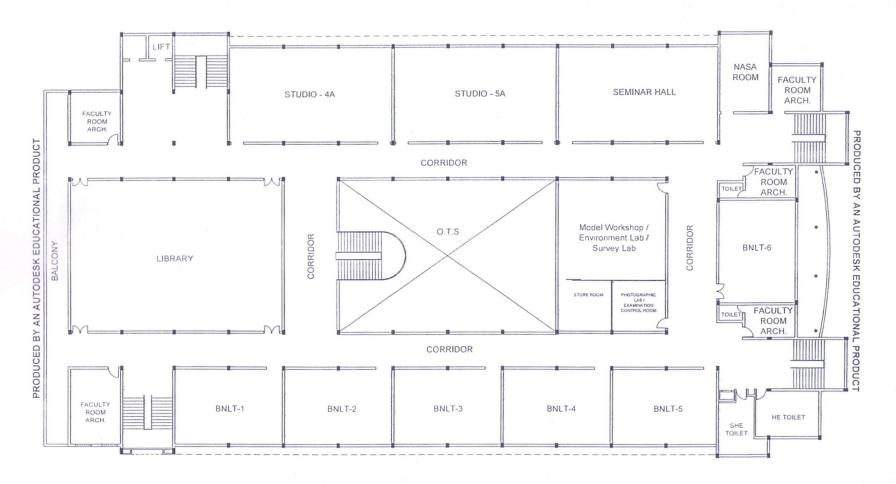
FOURTH FLOOR

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THIRD FLOOR

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



FIRST FLOOR

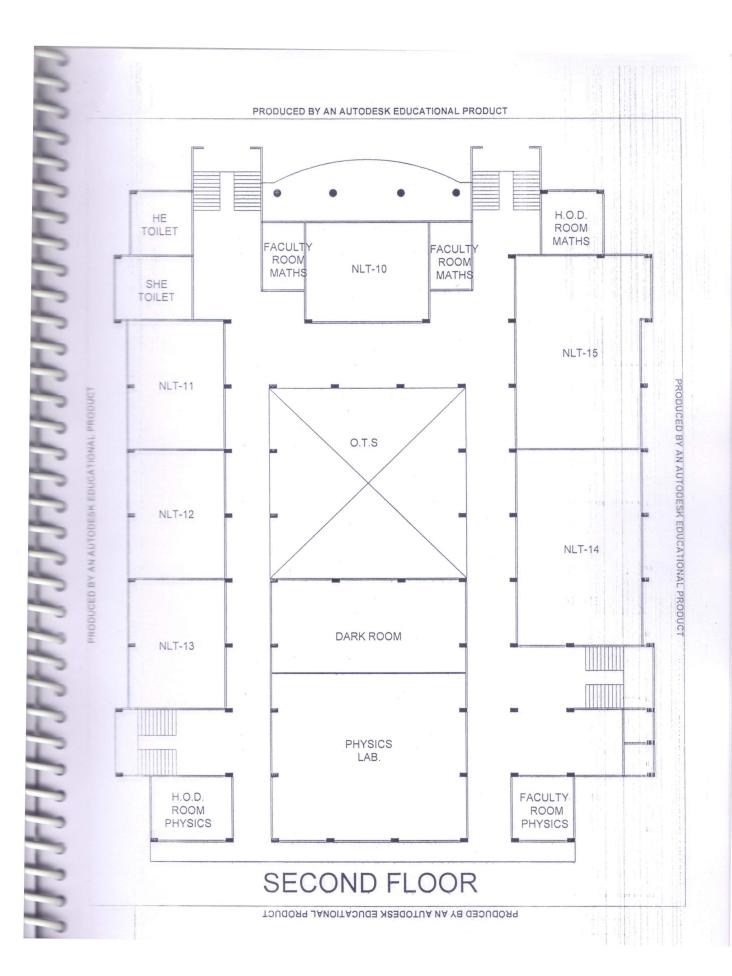
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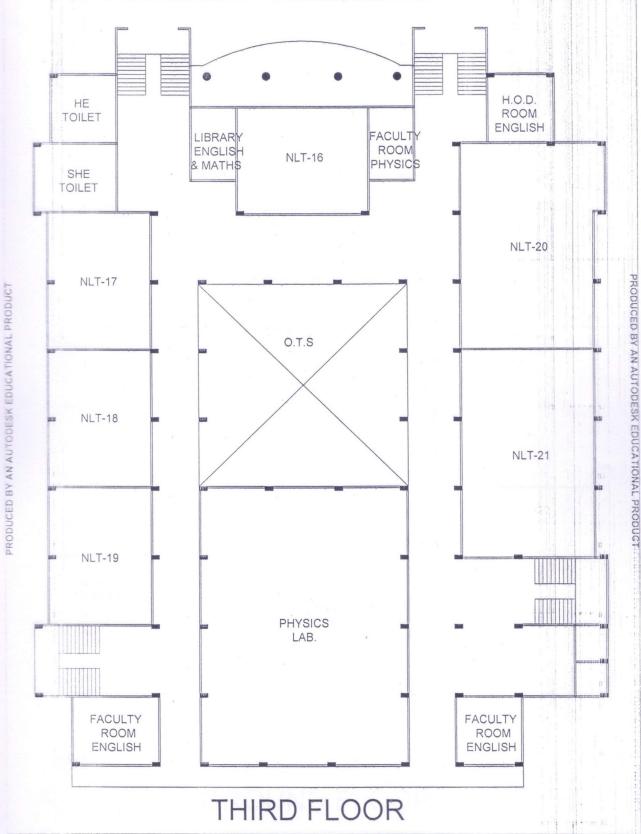
GROUND FLOOR

HE TOILET

SHE

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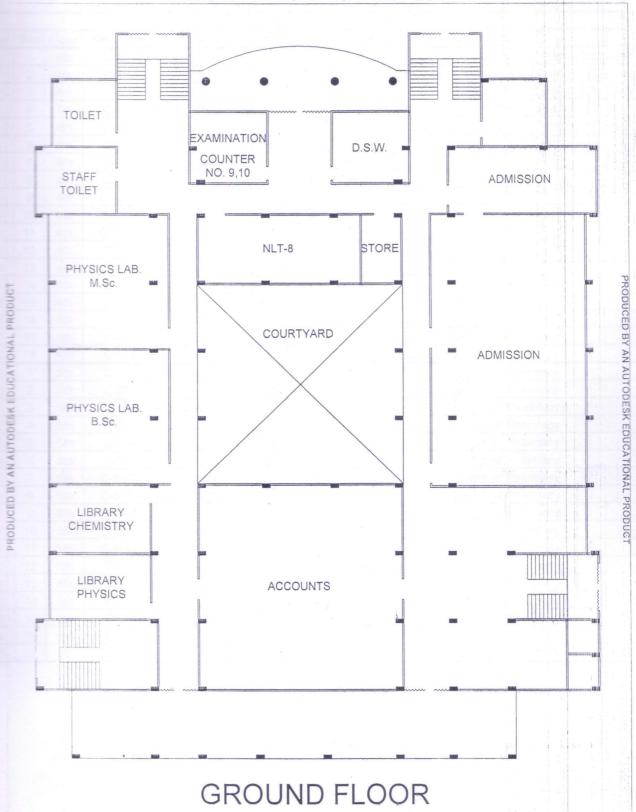




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Block-D

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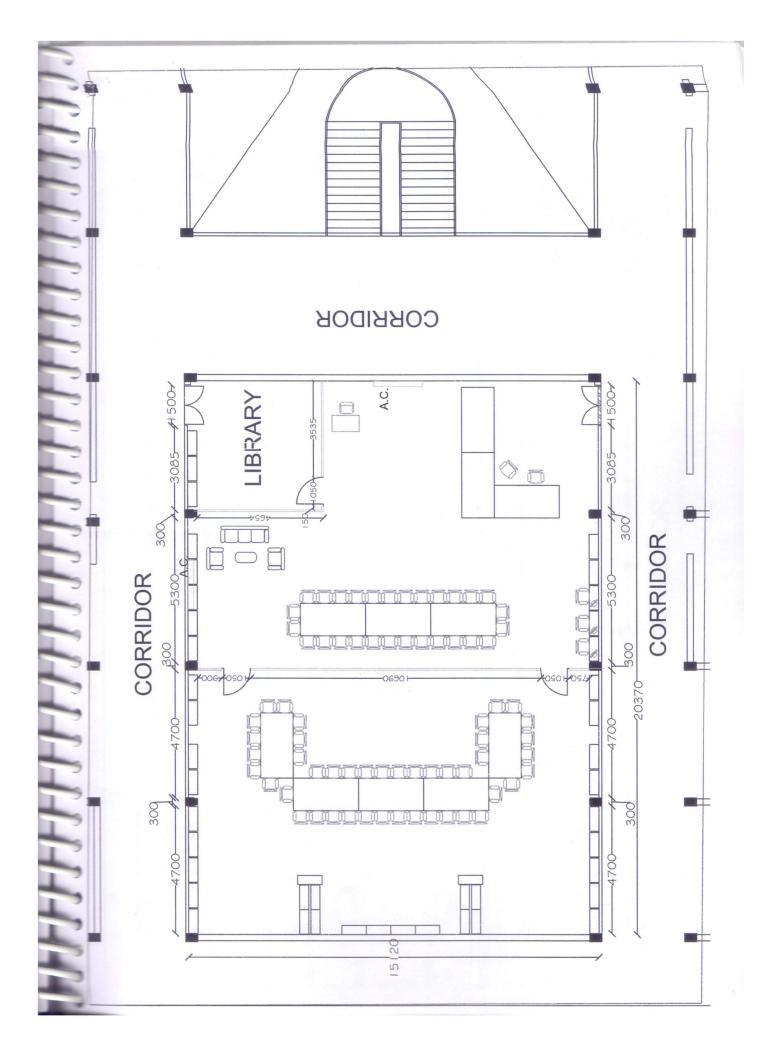
INTEGRAL UNIVERSITY, LUCKOW FLOOR PLAN

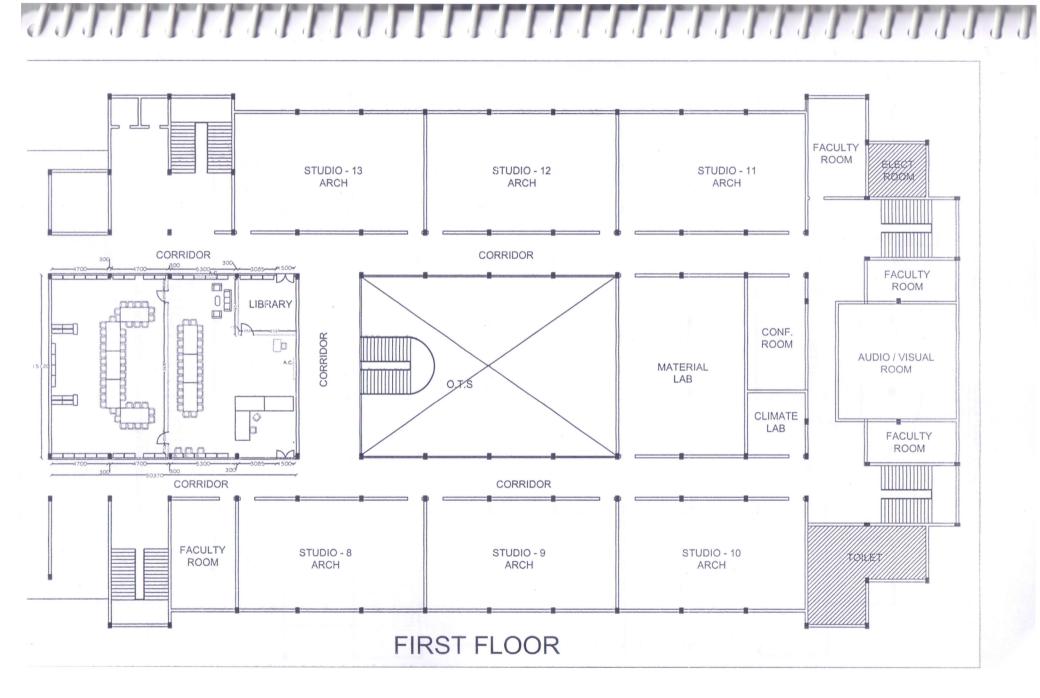
-	5					Block-C Rooms Details	
L	S No	Sno	Floor	Room No	Room Type	Name of Office/Lab/Room	Department
	1	1	4th	C-401	Office		Directorate of Distance Education
-	2	2	4th	C-402	Office		Directorate of Distance Education
	3	3	4th	C-403	Office		Directorate of Distance Education
	94	4	4th	C-404	Office		Directorate of Distance Education
-	5	5	4th	C-405	Office		Directorate of Distance Education
	6	6	4th	C-406		IIRC-7	IIRC
	97	7	4th	C-407	Lab	Animal Tissue Lab	IIRC
-	8	8	4th	Ç-408	Lab	Bio Information Center	IIRC
	9	9	4th	C-409A	Lab	PTC	IIRC
	10	10	4th	C-409B	Lab	PTC	IIRC
_	11	11	4th	C-409C	Lab	PTC	IIRC
1	12	12	4th	C-410	Lab	IIRC-6	IIRC
-	13	13	4th	C-411	Lab	IIRC-5	IIRC
	14	14	4th	C-412	Lab	IIRC-4	IIRC
1	15	15	4th	C-413	Lab	IIRC-3	IIRC
-	16	16	4th	C-414	Lab	IIRC-2	IIRC
	17	17	4th	C-415	Lab	IIRC-1	IIRC
-	18	18	4th	C-416	Lab	Central Instrumental facility	IIRC
-	19	1	5th	C-501	Faculty Room		Deptt. of Pharmacy
	20	2	5th	C-502	Lab	Pharma Practice Lab	Deptt. of Pharmacy
7	21	3	5th	C-503	Class Room		Deptt. of Pharmacy
_	22	4	5th	C-504	Class Room		Deptt. of Pharmacy
1	23	5	5th	C-505	Lab	Pharmaceutics Lab	Deptt. of Pharmacy
-	24	6	5th	C-506	Lab	Aseptic Room	Deptt. of Pharmacy
-	25	7	5th	C-507A	Store		Deptt. of Pharmacy
7	26	8	5th	C-507B	Store		Deptt. of Pharmacy
-	27	9	5th	C-508	Lab	Machine Room	Deptt. of Pharmacy
	28	10	5th	C-509A	Common Room	Girls Common Room	Deptt. of Pharmacy
	29	11	5th	C-509B	Faculty Room		Deptt. of Pharmacy
-	30	12	5th	C-511	Lab	Physiology & Pharmacology Lab	Deptt. of Pharmacy
	31	13	5th	C-512	Lab	Pharma Chemistry Lab	Deptt. of Pharmacy
-	32	14	5th	C-513	Lab	Pharmcognosy Lab	Deptt. of Pharmacy
	33	15	5th	C-514	Library	Departmental Library	Deptt. of Pharmacy
	34	16	5th	C-515	Office	Head of Department	Deptt. of Pharmacy
7	35	17	5th	C-516	Common Room	Boys Common Room	Deptt. of Pharmacy

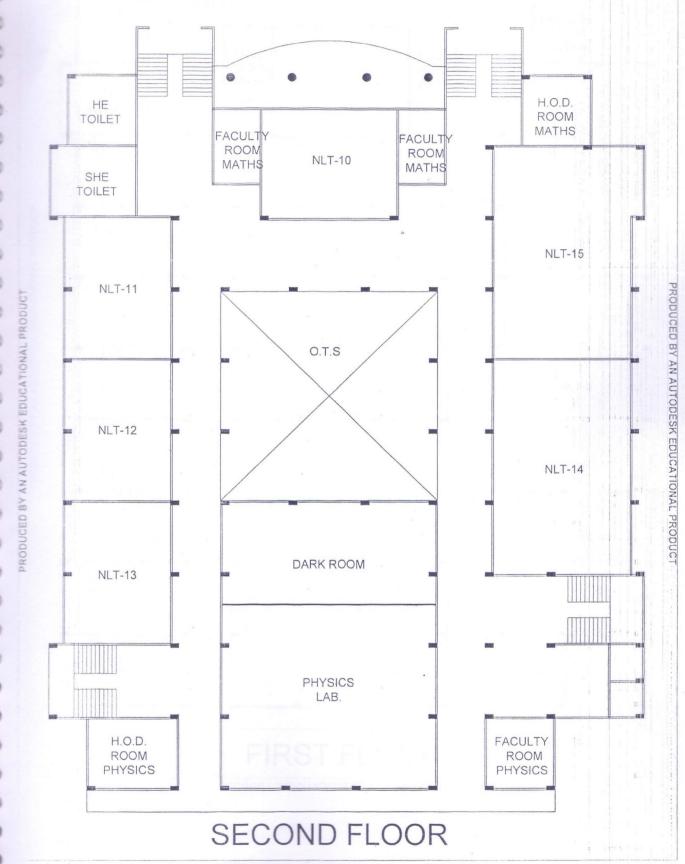
99	1	SF	B-201			
		01	B-201	 Office	Head of Department	Bio Sciences
100	2	SF	B-202	Room	Faculty Room	Bio Sciences
nin	3	SF	B-203	Room	Faculty Room	Bio Sciences
102	4	SF	B-204	Room	BT-9	Bio Sciences
103	5	SF	B-205	Room	LS-10	Bio Sciences
104	6	SF	B-206	Room	LS-11	Bio Engineering
105	7	SF	B-207	Room	LS-12	Bio Engineering
106	8	SF	B-208	Room	LS-13	Bio Sciences
107	9	SF	B-209	Room	BT-8	Bio Sc. & Bio Engo
108	10	SF	B-210	Room	BT-14/Smart Class Room	Bio Sc. & Bio Engo
109	11	SF	B-211	Room	BT-1/Seminar Hall	Bio Sc. & Bio Engo
110	12	SF	B-212	Library	Departmental Library	Bio Sc. & Bio Engo
111	13	ŞF	B-213	Lab	Bio Sciences	Bio Sciences
112	14	SF	B-214	Lab	Bio Chemistry Lab	Bio Sc. & Bio Engo
113	15	SF	B-215	Room	Faculty Room	Bio Sciences
114	16	SF	B-216	Room	Girls Common Room	Bio Sc. & Bio Engg
115	17	SF	B-217	Store	Store Room	Bio Sc. & Bio Engo
116	18	SF	B-218	Room	BT-10	Bio Sciences
117	19	SF	B-219	Room	Faculty Room	Bio Engineering
118	20	SF	B-220	Room	Faculty Room	
119	21	SF	B-221	Room	Faculty Room	
120	22	SF	B-222	Room	Faculty Room	Bio Sc. & Bio Engo
121	23	SF	B-223	Room	BT-10	Bio Sc. & Bio Engo
122	24	SF	B-224	Room	Record Room	Bio Engineering
123	25	SF	B-225	Room	Seminar Room	Bio Engineering
124	26	SF	B-226	Room	Head of Department	Bio Sc. & Bio Engo
125	27	SF	B-227	Room	Faculty Room	Bio Engineering
126	28	SF	B-228	Room	Culture Room	
127	29	SF	B-229	Room	Store Room	Bio Sc. & Bio Enge
128	30	SF	B-230	Room	Store Room	Bio Sc. & Bio Engo
129	31	SF	B-231	Room	BT-12	Bio Sc. & Bio Engo
130	32	SF	B-232	Room	BT-16	Bio Sc. & Bio Enge
131	33	SF	B-233	Library	Animal Tissues Library	Bio Sc. & Bio Eng
132	34	SF	B-234	Room	BT-7	Bio Sc. & Bio Engo
133	35	SF ·	B-235	Room	BT-5	7.19
134	36	SF	B-236	Room	BT-2	
135	37	SF	B-237	Room	BT-4	Bio Sc. & Bio Engo
136	38	SF	B-238	Room	BT-11	DIO GO. O DIO ETIGO
137	39	SF	B-239	Room	Faculty Room	Bio Sc. & Bio Eng

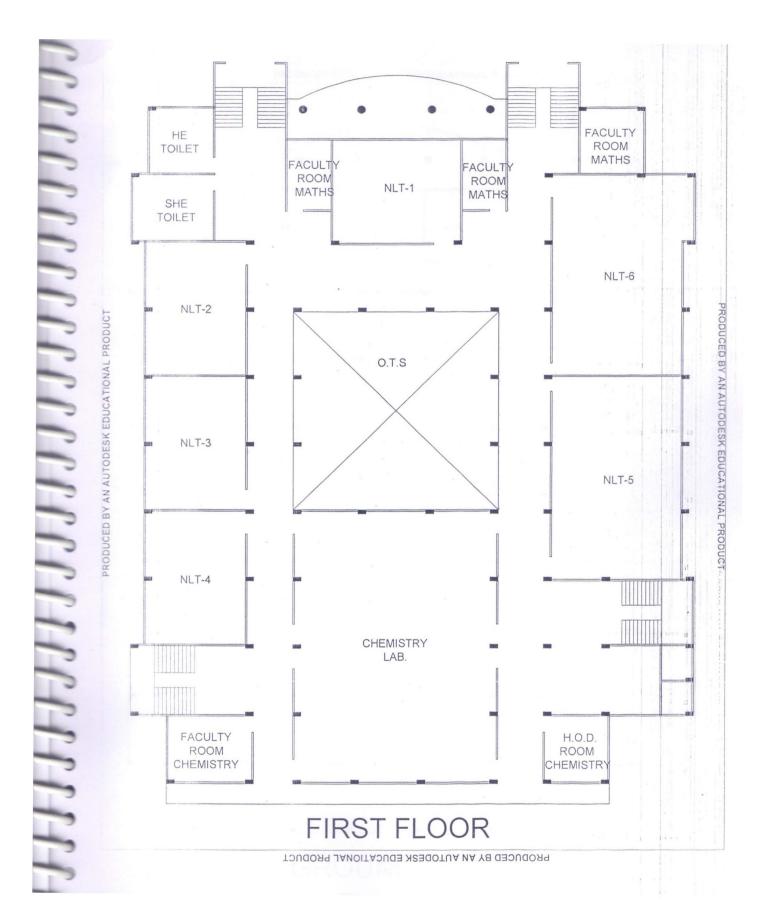
S-No	Sno	Floor	Room No	Old Room No	Room Type	Name of Office/Lab/Room	Department
44	1	FF	B-101	of course formations in processing formation for the formation of the form	Hall	Counselling Hall	Annual and the first from the back from the fact that the fact that the first the first interest conserved on the receiver
45	2	FF	B-102		Lab	Computer Centre - 1	Computer Sc. & Eng
46	3	FF	B-103		Lab	Computer Centre - 2	Computer Sc. & Eng
47	4	FF	B-104		Office	Software Development Cell	
48	5	FF	B-105		Office	IT Help Desk	
49	6	FF	B-106		Office	IT Help Desk	
50	7	FF	B-107		Common Room	Girls Common Room	And the second s
51	8	FF	B-108		Lab	CSE Lab-7	Computer Sc. & Eng
52	9	FF	B-109		Lab	CSE Lab-6	Computer Sc. & Eng
53	10	FF	B-110		Lab	CSE Lab-1	Computer Sc. & Eng
54	11	FF	B-111		Lab	CSE Lab-2	Computer Sc. & Eng
55	12	FF	B-112		Lab	CSE Lab-3	Computer Sc. & Eng
56	13	FF	B-113-A		Office	Head of Department	Computer Sc. & Eng
57	14	FF	B-113-B		Room	Faculty Room	Computer Sc. & Eng
58	15	FF	B-113-C		Room	Faculty Room	Computer Sc. & Eng
59	16	FF	B-113-D		Room	Faculty Room	Computer Sc. & Eng
60	17	FF	B-113-E		Room	Faculty Room	Computer Sc. & Eng
61	18	FF	B-114		Lab	CSE Lab-4	Computer Sc. & Eng
62	19	FF	B-115		Lab	CSE Lab-5	Computer Sc. & Eng
63	20	FF	B-116		Room	Faculty Room	Computer Sc. & Eng
64	21	FF	B-117		Room	Faculty Room	Computer Sc. & Eng
65	22	FF	B-118		Store		
66	23	FF	B-119		Lab	CSE Lab-8	Computer Sc. & Eng
67	24	FF	B-120		Room	Faculty Room	Computer Sc. & Eng
68	25	FF	B-121		Room	Faculty Room	Computer Sc. & Eng
69	26	FF	B-122		Room	Faculty Room	Computer Sc. & Eng
70	27	FF	B-123		Room	Faculty Room	Computer Sc. & Eng
71	28	FF	B-124		Library	Departmental Library	Computer Sc. & Eng
72	29	FF	B-125		Store		
73	30	FF	B-126		Store		
74	31	FF	B-127		Lab	CSE Lab-2	Computer Sc. & Eng
75	32	FF	B-128		Room	Faculty Room	Computer Sc. & Eng
76	33	FF	B-129		Room	Faculty Room	Computer Sc. & Eng
77	34	FF	B-130		Lab	CSE Lab-9	Computer Sc. & Eng
78	35	FF	B-131		Room		
79	36	FF	B-132		Room	Faculty Room	Computer Application
80	37	FF	B-133		Lab	CSE Lab-12	Computer Sc. & Eng
81	38	FF	B-134		Room	Faculty Room	Computer Application
82	39	FF	B-135		Room	Faculty Room	Computer Application
83	40	FF	B-136		Room	Faculty Room	Computer Application
84	41	FF	B-137		Room	Faculty Room	Computer Application
85	42	FF	B-138		Library	Departmental Library	Computer Application
86	43	FF	B-139		Room	Faculty Room	Computer Application
87	44	FF	B-140		Lab	CA Lab-7	Computer Application
88	45	FF	B-141		Lab	CA Lab-6	Computer Application
89	46	FF	B-142		Lab	CA Lab-5	Computer Application
90	47	FF	B-143		Lab	CA Lab-4	Computer Application
91	48	FF	B-144	-	Lab	CA Lab-3	Computer Application
92	49	FF	B-145-A		Room	UPS Room	
93	50	FF	B-145-B		Room	Server Room	
94	51	FF	B-145-C		Office	Head of Department	Computer Application
95	52	FF	B-145-D		Room	Faculty Room	
96	53	FF	B-146		Lab	CA Lab-2	Computer Application
97	54	FF	B-147		Lab	CA Lab-1	Computer Application
98	55	FF	B-148		Room	Faculty Room	Computer Application

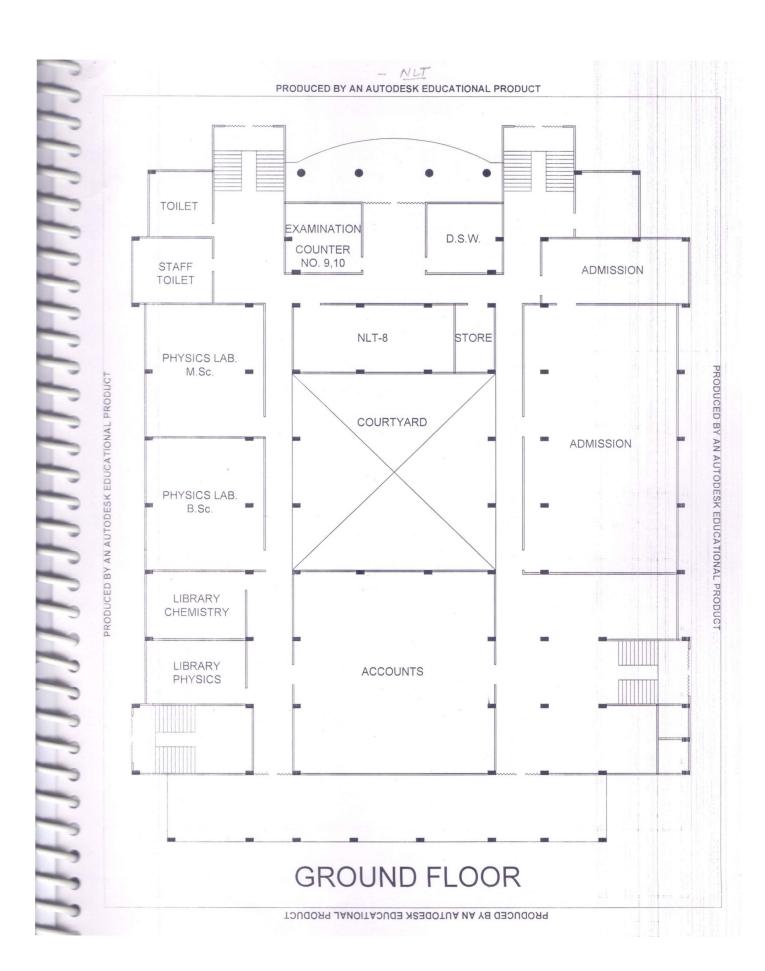
200	Sno	Floor	Room No	Old Room No	Room Type	Name of Office/Lab/Room	Department
52	9	SF	F-207	STR-1	Class Room		Civil Engg
PM53	10	SF	F-208	SRL-5 PART-1	Lab	IndustrialAutomation Lab	Elec & Comm
54	11	SF	F-209	SRL-5 PART-2	Lab	Structure Analysis Lab	Civil Engg
750	12	SF	F-210	SRL-4 PART-1			
955	13	ŞF	F-211	SRL-4 PART-2			
57	14	SF	F-212		Faculty Room		Elec & Comm
38	15	SF	F-213		Faculty Room		Elec & Comm
59	16	SF	F-214	SRL-3 PART-1	Class Room		Civil Engg
-50	17	SF	F-215	SRL-3 PART-2	LAB	Digital Electronics Lab	Elec & Comm
51	18	SF	F-216	SLR-2	Class Room		Civil Engg
T62	19	SF	F-217	Seminar room	Seminar Room	Seminar Room	Elec & Comm/ Civil
63	20	SF	F-218	SLR-1	Class Room		Civil Engg
64	21	SF	F-219		Library	Departmental Library	Elec & Comm
35	22	SF	F-220	SL-1	Class Room		Elec & Comm
66	1	TF	F-301	1	Faculty Room		Education Deptt.
67	2	TF	F-302		Faculty Room		Education Deptt.
-68	3	TF	F-303A		Library	Departmental Library	Education Deptt.
69	4	TF	F-303B		Common Room	Girls Common Room	Education Deptt.
200	5	TF	F-304	TLT-8	Class Room		Education Deptt.
71	6	TF	F-305	TLT-7	Class Room		Education Deptt.
12	7 .	TF	F-306	TLT-6	Class Room	1	Education Deptt.
73	8	TF	F-307	TLT-5	Class Room		Education Deptt.
74	9	TF	F-308		Lab	Education Psychology Lab	Education Deptt.
75	10	TF	F-309	TLT-9	Class Room		Education Deptt.
76	11	TF	F-310		Lab	Education Technology Lab	Education Deptt.
277	12	TF	F-311A		Lab	Home Science Lab	Education Deptt.
78	13	TF	F-311B		Lab	Art & Craft workshop	Education Deptt.
79	14	TF	F-312		Faculty Room		Education Deptt.
80	15	TF	F-313		Faculty Room		Education Deptt.
81	16	TF	F-314A		Lab	Biology Lab	Education Deptt.
82	17	TF	F-314B		Lab	General Science lab	Education Deptt.
83	18	TF	F-315		Faculty Room		Education Deptt.
84	19	TF	F-316	TLT-4	Class Room		Education Deptt.
85	20	TF	F-317	TLT-3	Class Room		Education Deptt.
786	21	TF	F-318	TLT-2	Class Room		Education Deptt.
87	22	TF	F-319	TLT-1	Class Room		Education Deptt.
88	23	TF	F-320		Store		Education Deptt.
389	24	TF	F-321A		Office	Head of Department	Education Deptt.
90	25	TF	F-321B		Office	Dean	Education Deptt.

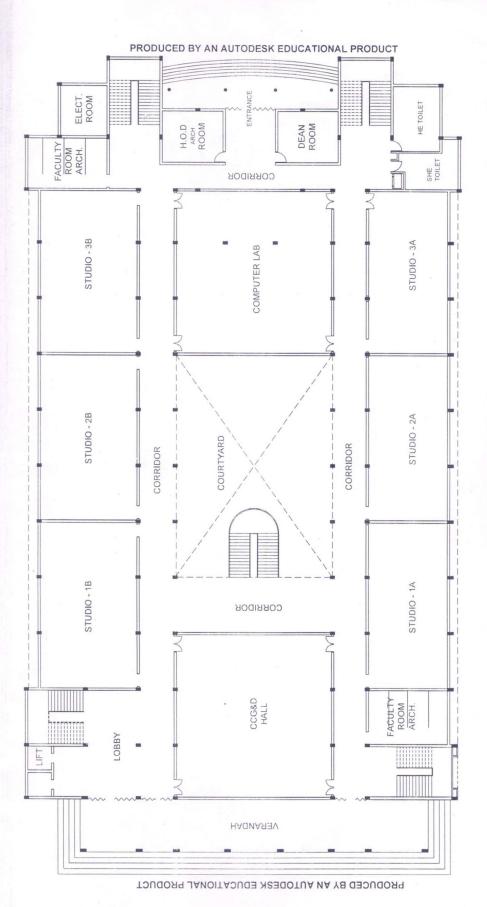




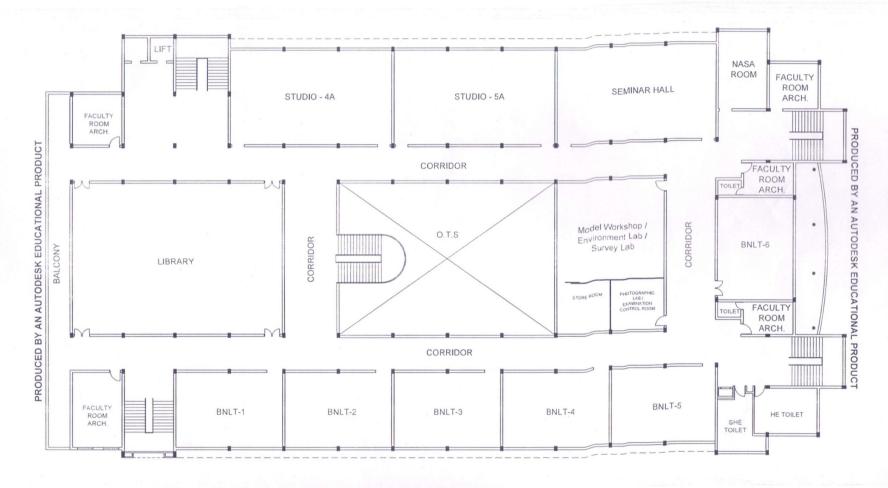






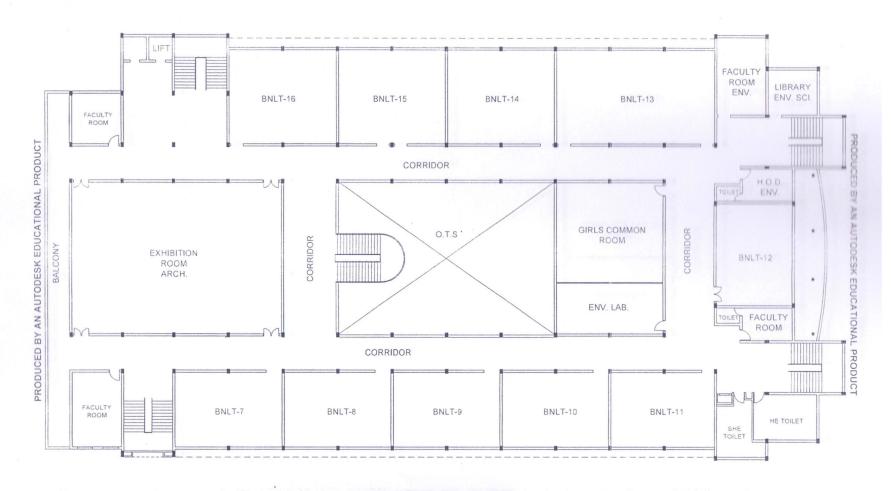


GROUND FLOOR

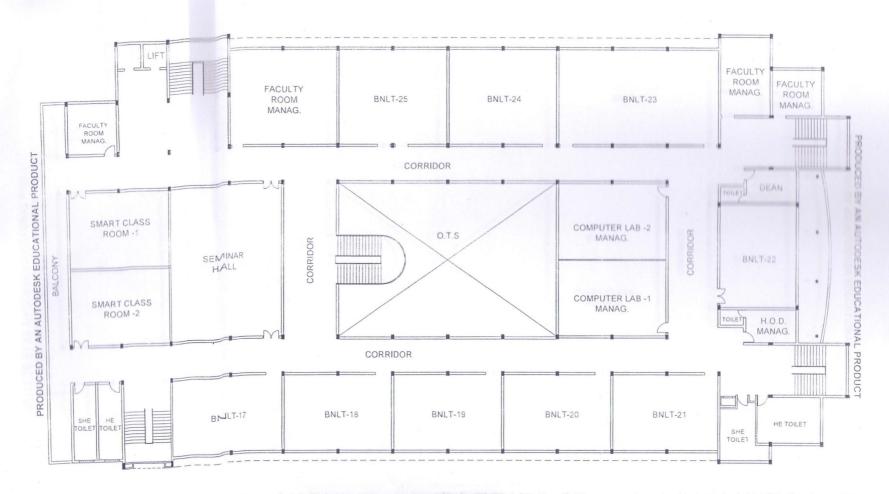


FIRST FLOOR

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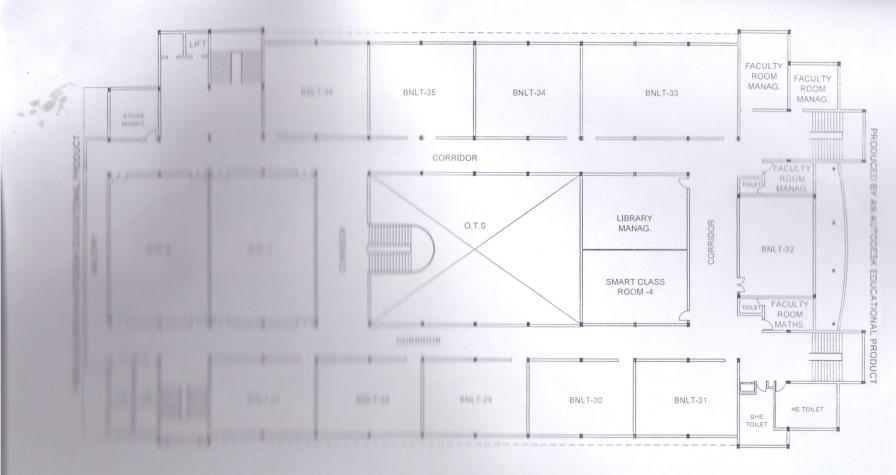


SECOND FLOOR



THIRD FLOOR

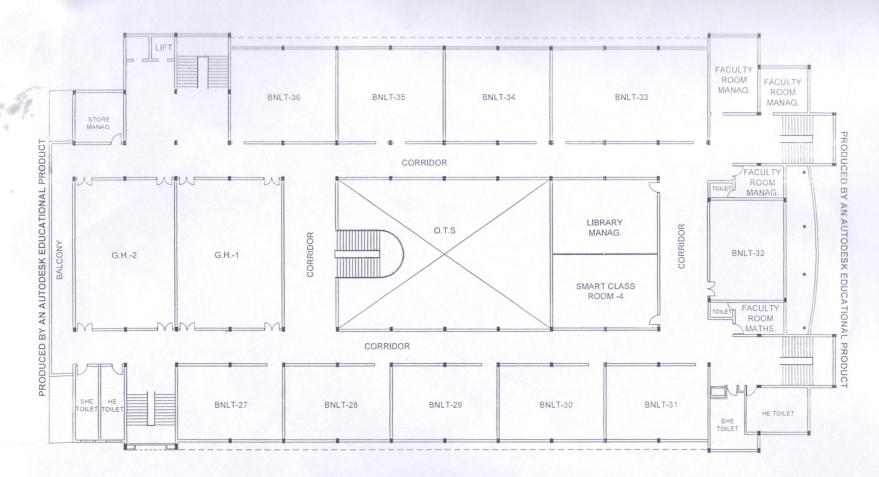
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



FOURTH FLOOR

PRODUCED BY AN AVTORESS EBUSA THURS. FINISHES

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FOURTH FLOOR

APPENDIX-2

Survey Form (Green Auditing)

Auditing for Water Management

1. List uses of water in your university.
Drinking, toilets, Labs, Gardening and cleaning.
2. What are the sources of water in your university?
Bore wells.
3. No. of motors used for pumping water from each well?
16 no. (Campus only)
4. What is the total horse power of each motor?
16 HP
5. How does your university store water?
Overhead tank
6. Quantity of water stored in your overhead water tank? (in liters)
60% of total consumption.
7. Amount of water used per day for garden use.
15-20% of total consumption (Average)
8. Does your university harvest rain water?
Yes.
9. If yes, how many rain water harvesting units are there?
01.
10. Are there signs reminding people to turn off the water?
Yes.
11. How often is the garden watered?
Once in a week.

Auditing for Energy Management

- 1. List ways that you use energy in your university
 - Electricity
 - Diesel
- 2. Conserved 30% of conventional lighting fixtures/system. In a year of time period all electrical fixtures are replaced by LED lights. No procurement done except LED light.
- 3. Are any alternative energy sources/non conventional energy sources employed / installed in your university? (Photo voltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.

Yes. Photo voltaic cells for solar energy (1 MW), energy efficient photocopiers, AC etc.

4. Do you run "switch off" drills at university?

Yes.

5. Are your computers and other equipment put on power-saving mode?

Yes.

Auditing for Waste Management

1. What is the total strength of students, teachers and Non teaching staff in your University?

No. of Students - 16054 No. of Teachers- 304 No. Non teaching staff-400

2.	Number	Male	Female	Total
	No. of Students	9633	6421	16054
	No. of Teachers	183	121	304
	No. Non teaching staff	240	160	400

- 3. Which of the following are found near your university?
- -Mark the level of disturbance it creates for the university in a scale of 1 to 9.
- -Municipal dump yard 09
- -Garbage heap 09
- -Public convenience 09
- -Sewer line 07
- -Stagnant water 09
- -Open drainage 04
- -Industry (Mention the type) 09 Industrial
- -Bus / Railway station 09
- -Market / shopping complex / public halls 08

WASTE

- 4. Does your university generate any waste? If so, what are they?
- -E-waste

Yes (computer department)

-Hazardous waste (toxic)

Yes (Pharmacy, bioscience department)

-Solid waste

Yes

-Dry leaves
Yes
-Canteen waste
Yes
-Liquid waste
Yes
-Glass
No
-Unused equipment
No
5. Is there any waste treatment system in the university?
Yes
6. Is there any treatment for toilet/urinal/sanitary waste?
Yes (under construction)
7. How is the waste generated in the university managed?
a. Composting
b. Recycling
c. Reusing
8. Do you use recycled paper in University?
Yes

Auditing For Green Campus Management

1. Is there a Open space in your university? Area?
Yes. 60,000 sq.mt
2. List the plants, with approx. numbers of each species.
List Attached.
4. Whether you have displayed scientific names of the trees in the campus?
Yes.
5. Is there any medicinal garden in your university?
Yes
6. How much water is used in the open spaces and landscaping?
15-20% of total consumption (Average)
7. Are you using any type of recycled water in your garden?
Yes.
8. Is there any botanical garden in your campus?
Yes.