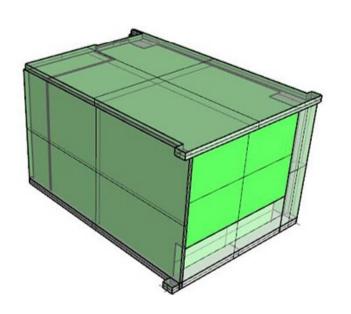
ASSIGNMENT:

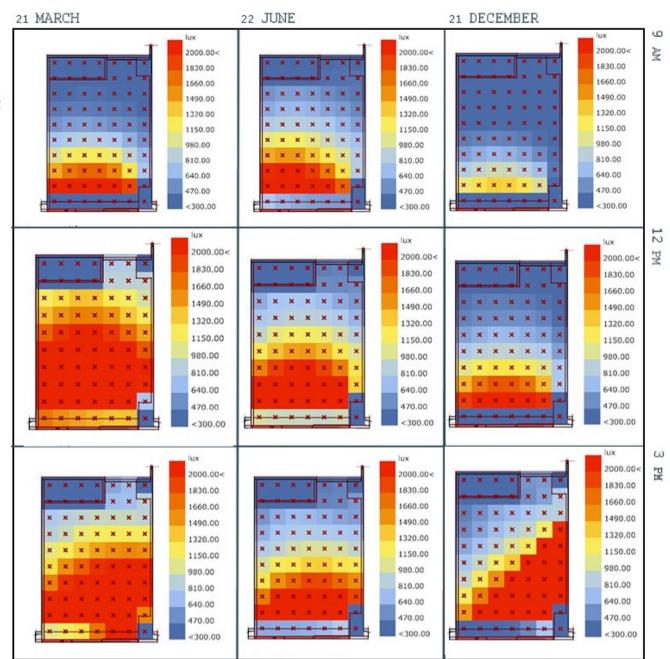
DAYLIGHTING ANALYSIS AND DESIGN BUILDING PERFORMANCE AND SIMULATION

SUBMITTED BY_ SILMI FARAH

SHADING ANALYSIS AND DESIGN:

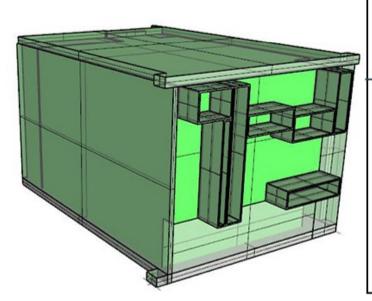
HAVING A SOUTHERN SURFACE WITH CURTAIN GLASS IT ALREADY HAS SUFFICIENT LIGHTING. HOWEVER, YEARLONG RADIATION IS A MAJOR PROBLEM. THIS CONTROL OF GLARE WAS THE PRIME FOCUS OF DESIGN.

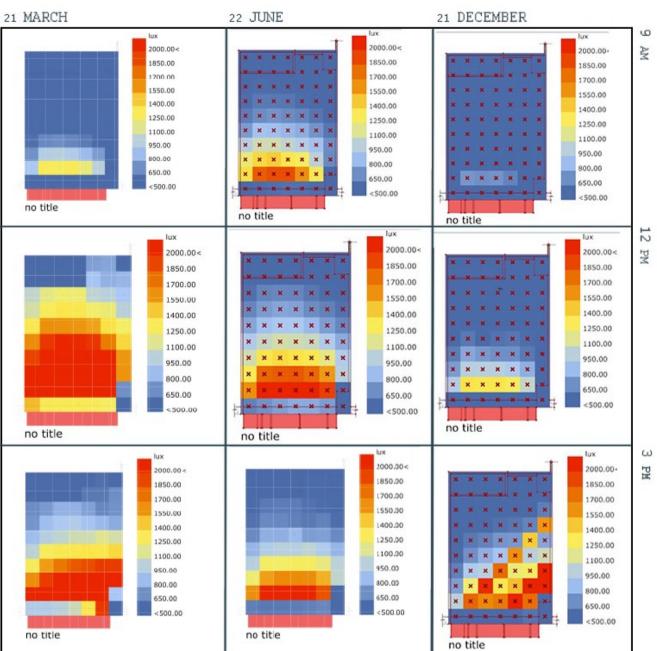




STEP 1:

INTRODUCING SOME EGG CRATE SHADING OF VARIOUS SIZE AND PROPORTION RECESSING OUT OF THE WINDOW. AND THE ANALYSIS RESULT STILL TURNED OUT MUCH GLARED.





22 JUNE 21 MARCH 21 DECEMBER lux fux 2000.00< STEP 2: 2000.00< 2000.00< 1830.00 1830.00 1830.00 1660.00 TRIAL AND ERROR OF MOVING AND SCALING THE SHADES 1660.00 1660.00 1490.00 AND THE LIGHT SHELFS UNTIL DESIRED RESULT. STILL 1490.00 1490.00 SOME PLACES INSIDE THE ROOM MAY BE BELOW 300 LUX 1320.00 1320.00 1320.00 BUT CONSIDERING THAT IS INACTIVE ZONE WITHOUT ANY 1150.00 1150.00 1150.00 READING OR DAILY ACTIVITIES REQUIREMENT. 980.00 980.00 980.00 810.00 810.00 810.00 640.00 640.00 640.00 470.00 470.00 470.00 <300.00 <300.00 <300.00 lux lux lux 2000.00< 2000.00< 2000.00-1830.00 1830.00 1830.00 1660.00 1660.00 1660.00 1490.00 1490.00 1490.00 1320.00 1320.00 1320.00 1150.00 1150.00 1150.00 980.00 980.00 980.00 810.00 810.00 810.00 640.00 640.00 640.00 470.00 470.00 470.00 <300.00 <300.00 <300.00 lux lux 2000.00< 2000.00-2000.00< 1830.00 1830.00 1830.00 1660.00 1660.00 1660.00 1490.00 1490.00 1490.00 1320.00 1320.00 1320.00 1150.00 1150.00 1150.00 980.00 980.00 980.00 810.00 810.00 810.00 640.00 640.00 640.00 470.00 470.00 470.00 <300.00 <300.00 <300.00