



**J.C. BOSE UNIVERSITY OF SCIENCE & TECHNOLOGY, YMCA**  
**SECTOR-6, MATHURA ROAD, FARIDABAD -121006 (HARYANA)**  
*NAAC 'A' GRADE accredited State University*

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## **Use of LED Lights/Power efficient equipments**

Energy use is an important aspect of campus sustainability. An old incandescent bulb uses approximately 60W to 100W while an energy efficient light emitting diode (LED) uses only less than 10W. It is therefore essential that any environmentally responsible institution examine its energy use practices.

University has taken measures to replace Conventional bulbs with LED lights and moving towards 100% LED lights. LED use also has a peculiar advantage towards environment that LED's are not using any mercury as the case of CFL's or Fluorescent tubes.

Besides energy conservation, LED lighting provides a superior light quality compared to traditional light sources resulting in a better working and learning environment. It transforms the educational environment creating better on-campus experiences for students and staff.

Our students are instructed to use electricity wisely and signage's are displayed to reinforce appropriate use of electricity.

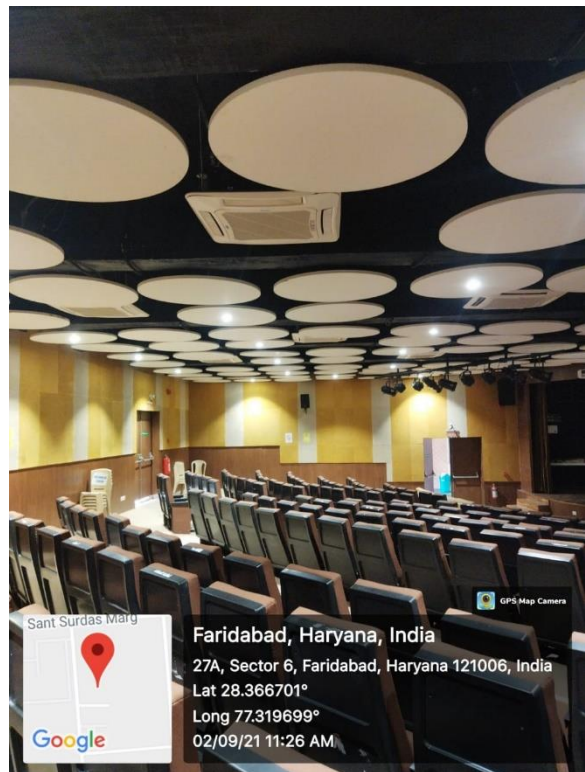
University encourages to purchase star-rated energy efficient equipments wherever possible.

**Geo-tagged photos of LEDs installed, power efficient equipments and signages to save electricity at various places in the University are shown as below.**

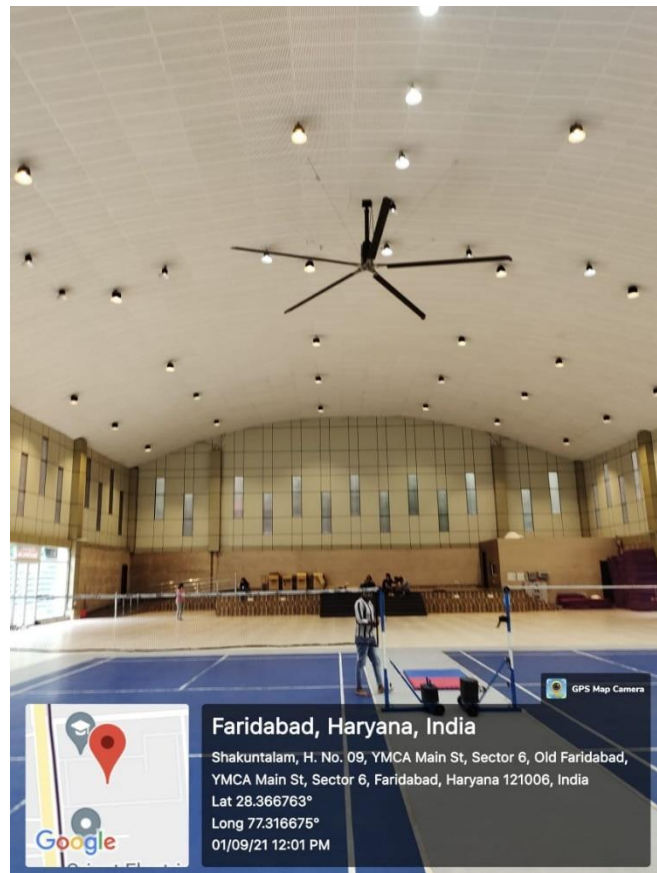
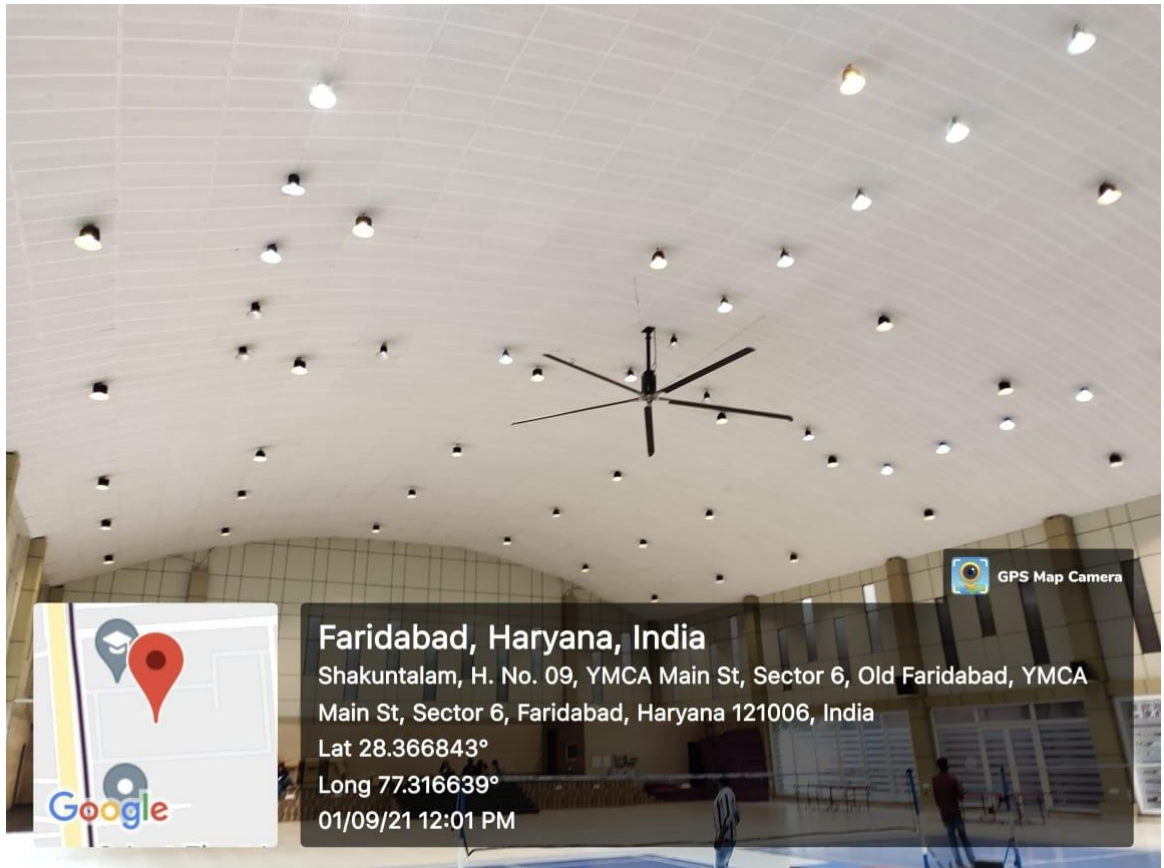
## Board Room



## Auditorium

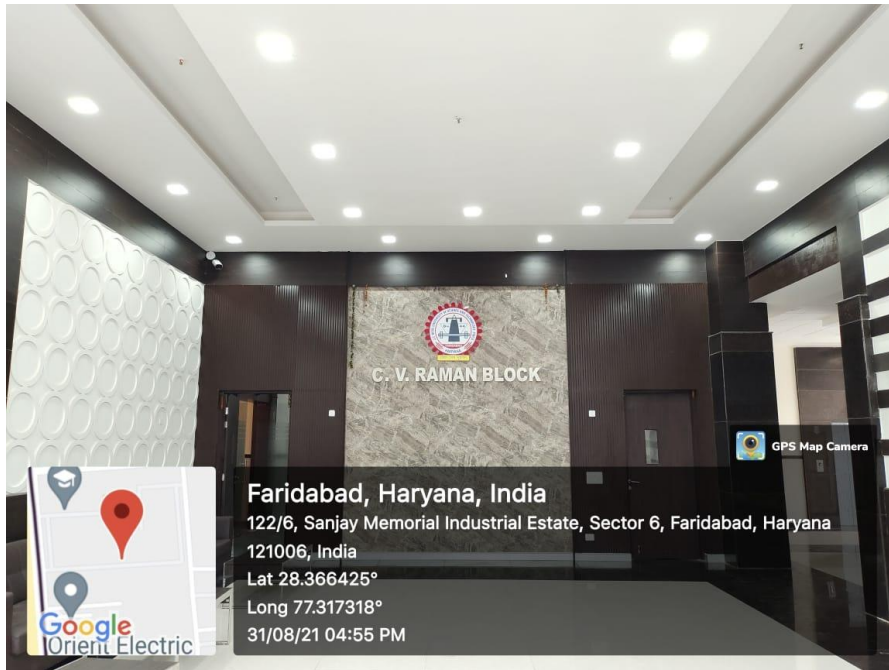


# Shakuntalam Multipurpose Hall

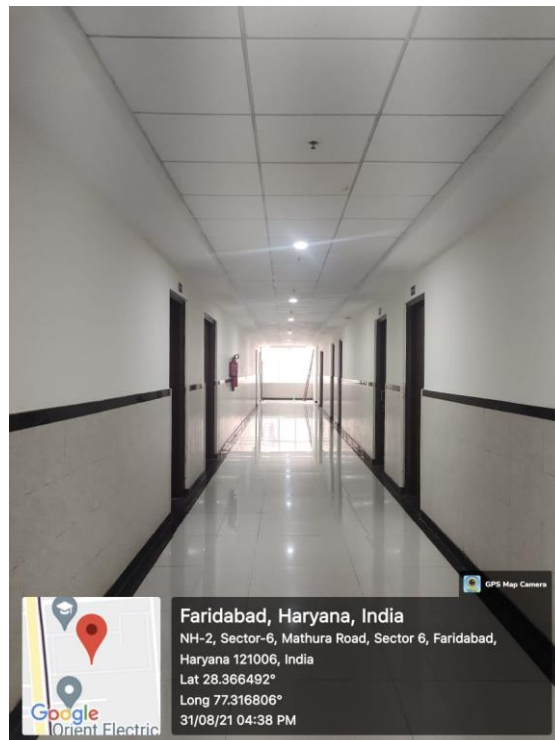


# C.V. Raman Science Block

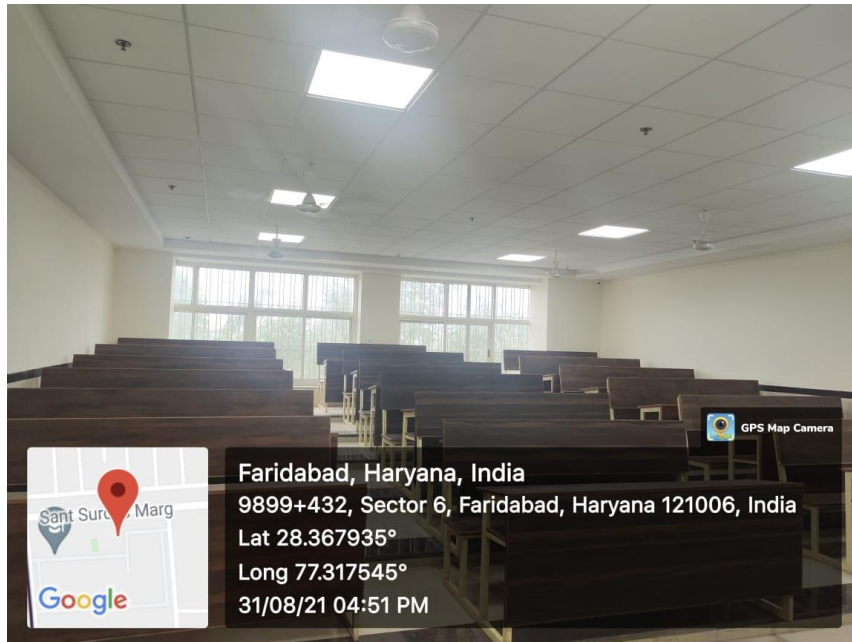
## Reception Area in Science Block



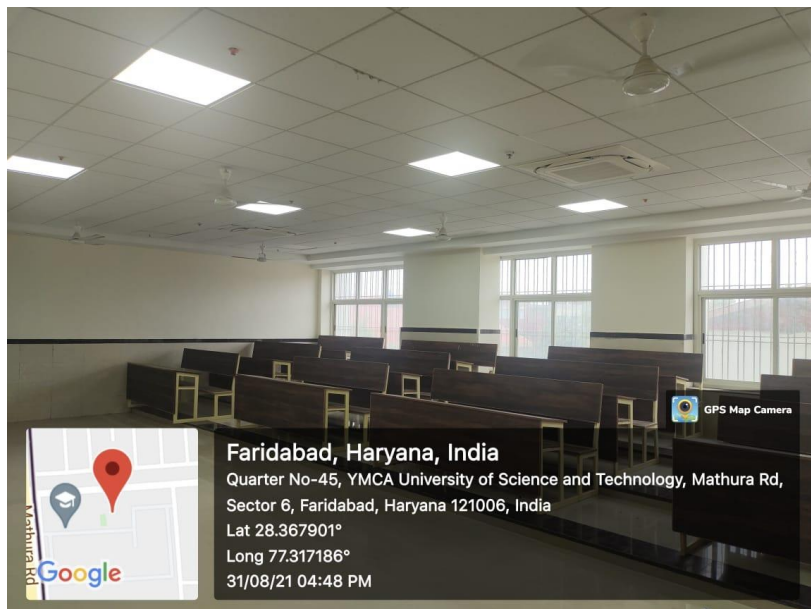
## Corridor 1<sup>st</sup> Floor in Science Block



### Classroom Science Block 203



### Classroom Science Block 206



## Science Block Lab 106



## Science Block Lab 102

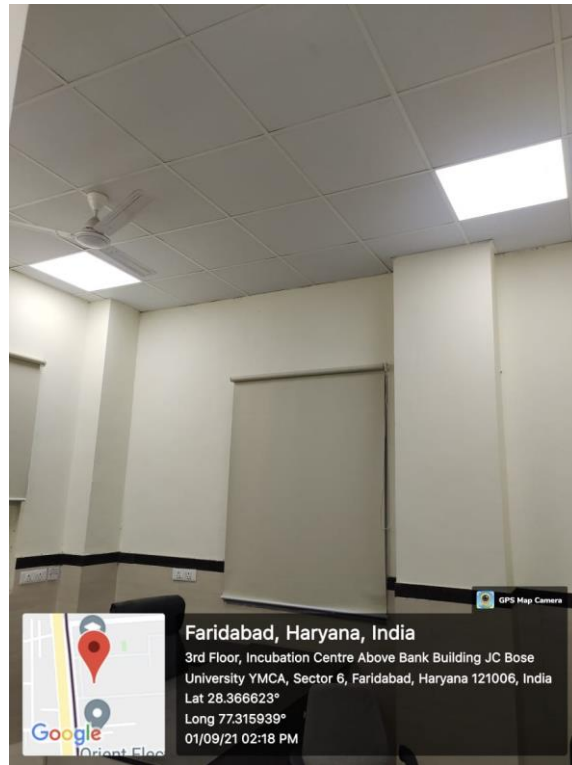


# Vishwakarma Bhawan

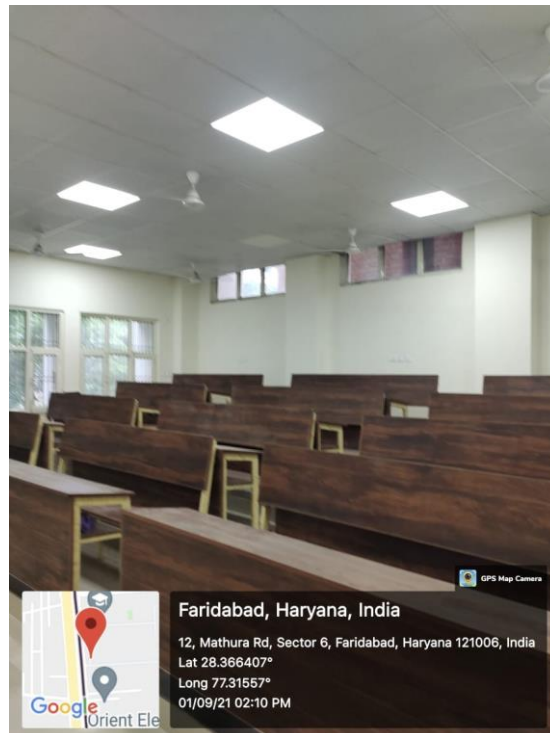
## Material Testing Lab



## Staff Room



## Room 202 Lecture Hall



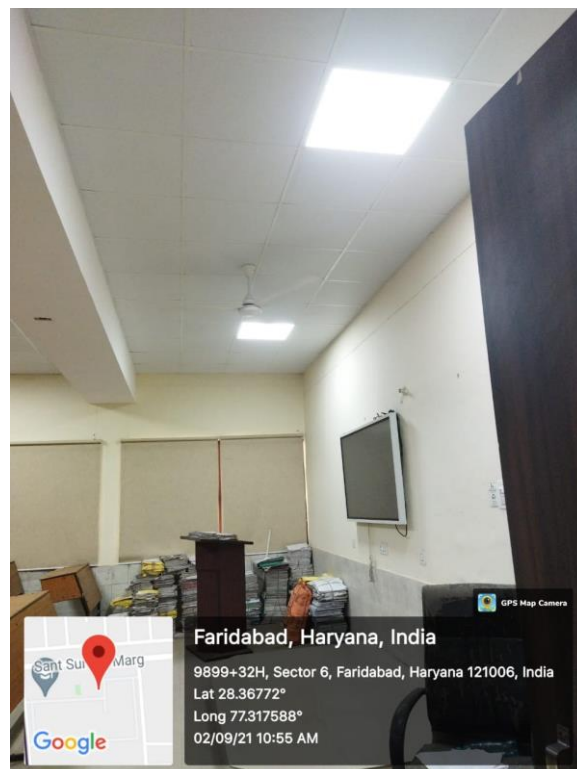
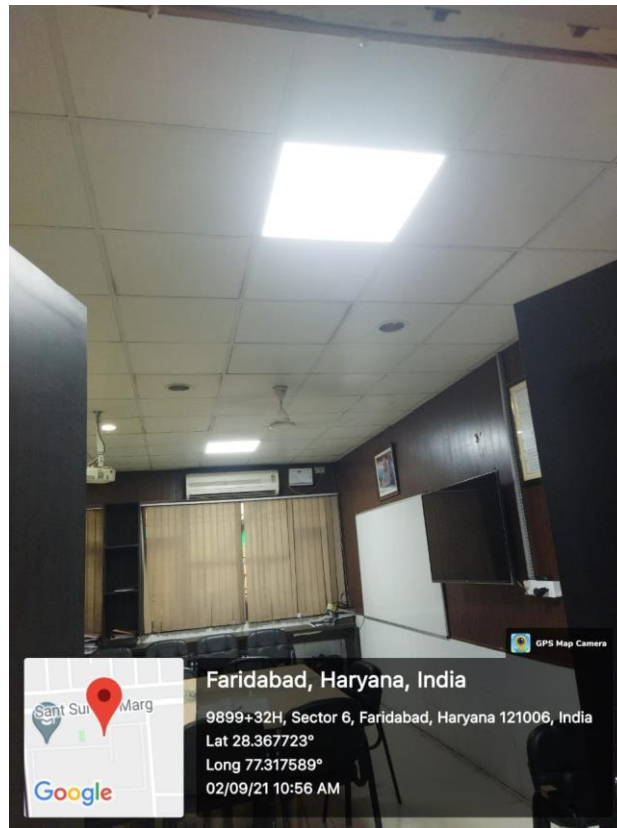


## Room 203 1st floor Lecture hall



# MBA BLOCK

## Conference Room



## Classrooms



## Physics Lab





## Energy Conservation Signages



## EVS LAB





## Power Efficient (Star-rated) Equipments

### Water Lab



### Chemistry Lab





## Details of lightning load met through LEDs



**J.C. Bose University of Science & Technology YMCA, Faridabad**

(A Haryana State Government University)

(Established by Haryana State Legislative Act No. 21 of 2009 & Recognized by UGC Act 1956 u/s 22 to Confer Degrees)

Accredited 'A' Grade by NAAC

Construction & Maintenance

NAAC INFORMATION (Engineering cell- Annual Lighting power requirement met through LED fittings)

Sr. no.	Description	Units (KWH)
1	Annual power requirement of institution (in KWH) – Running load 400 KW	631747 KWH
2	Annual lighting power requirement (in KWH) 105 of the total load	63174 KWH
3	Annual lighting power requirement met through LED fittings	50539 KWH
	Percentage of lighting load met through LED fitting	80%

Note :- within 2 year the lighting of institution will be 100% on LED fitting. Procurement of new fittings is under process.

  
Sub Divisional Engineer (Civil)

  
J.E.C.E.)