

# Govt. Holkar (Model, Autonomous) Science College, Indore



**An indigenously developed**  
**Virtual Lab @ Holkar LMS**

# Virtual Lab



<https://www.lms.holkar.org/>

Science Communication  
Video Lecture -01-to-05

An Initiative of Department of  
Physics and Electronics

# Indexing Of A Cubic Crystal X-Ray Diffraction Patterns-Mathematical Method

---

E-Text



Video/ Visuals



Animation/Simulation



**Do Yourself**



Learn More



Self-Assessment












### Sample Data

☒ User Define

☐ FCC

☐ BCC

☐ SCC

S.N.	Enter 2 $\theta$ Value	
1	<input type="text" value="0"/>	
2	<input type="text" value="0"/>	
3	<input type="text" value="0"/>	
4	<input type="text" value="0"/>	
5	<input type="text" value="0"/>	
6	<input type="text" value="0"/>	
7	<input type="text" value="0"/>	
8	<input type="text" value="0"/>	
		

### Select Lamda( $\Lambda$ )

CuK $\alpha$  (1.540562 Å) 

### Your Name

### Your Email ID

Step I: Identify the peaks and their proper 2 $\theta$  values. Here are the typical eight 2 $\theta$ -value entry fields provided with this interface. You can increase or delete rows for data elements depending upon the test X-ray pattern. Also choose the relevant wavelength of X-ray source.

SUBMIT

RESET

# Logic Gate- Simulator

---

**E-Text**



**Video/ Visuals**



**Animation/Simulation**



**Do Yourself**



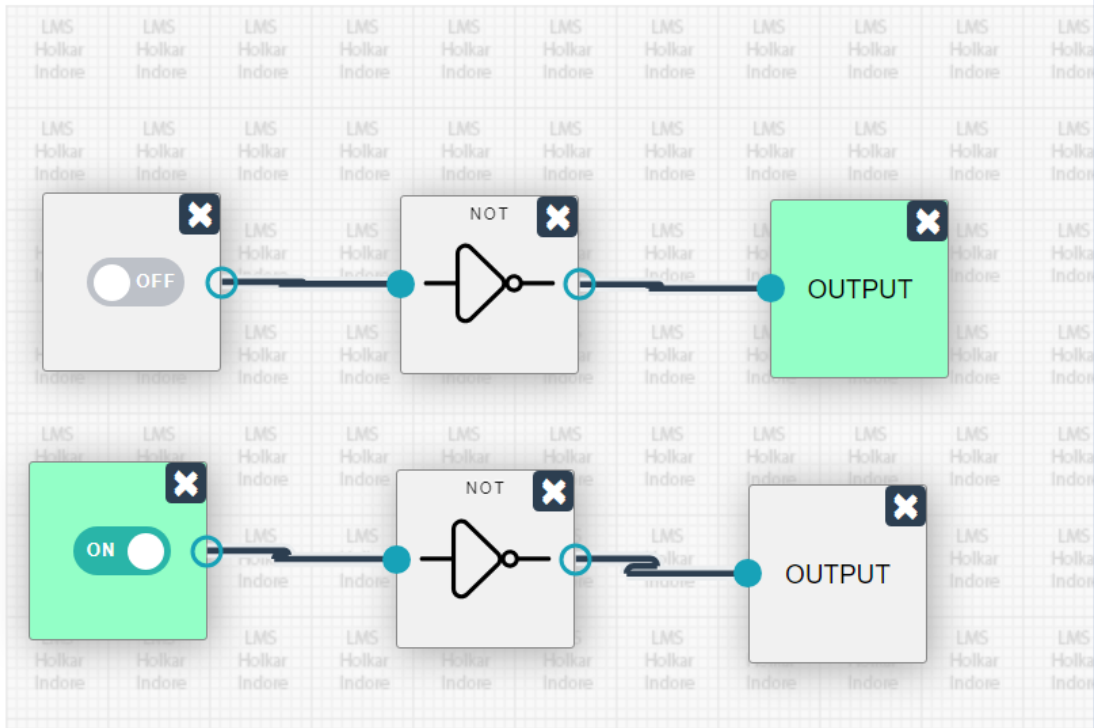
**Learn More**



**Self-Assessment**



## Workspace



INPUT

Add node

Full screen mode

Clear Workspace

Prepare Binary Table

Clear Binary Table

INPUT

INPUT

OUTPUT

NOT

AND

AND (3 inputs)

NAND

OR

NOR

XOR

# Planck's Law Of Black-Body Radiation

---

**E-Text**



**Video/ Visuals**



**Animation/Simulation**



**Do Yourself**



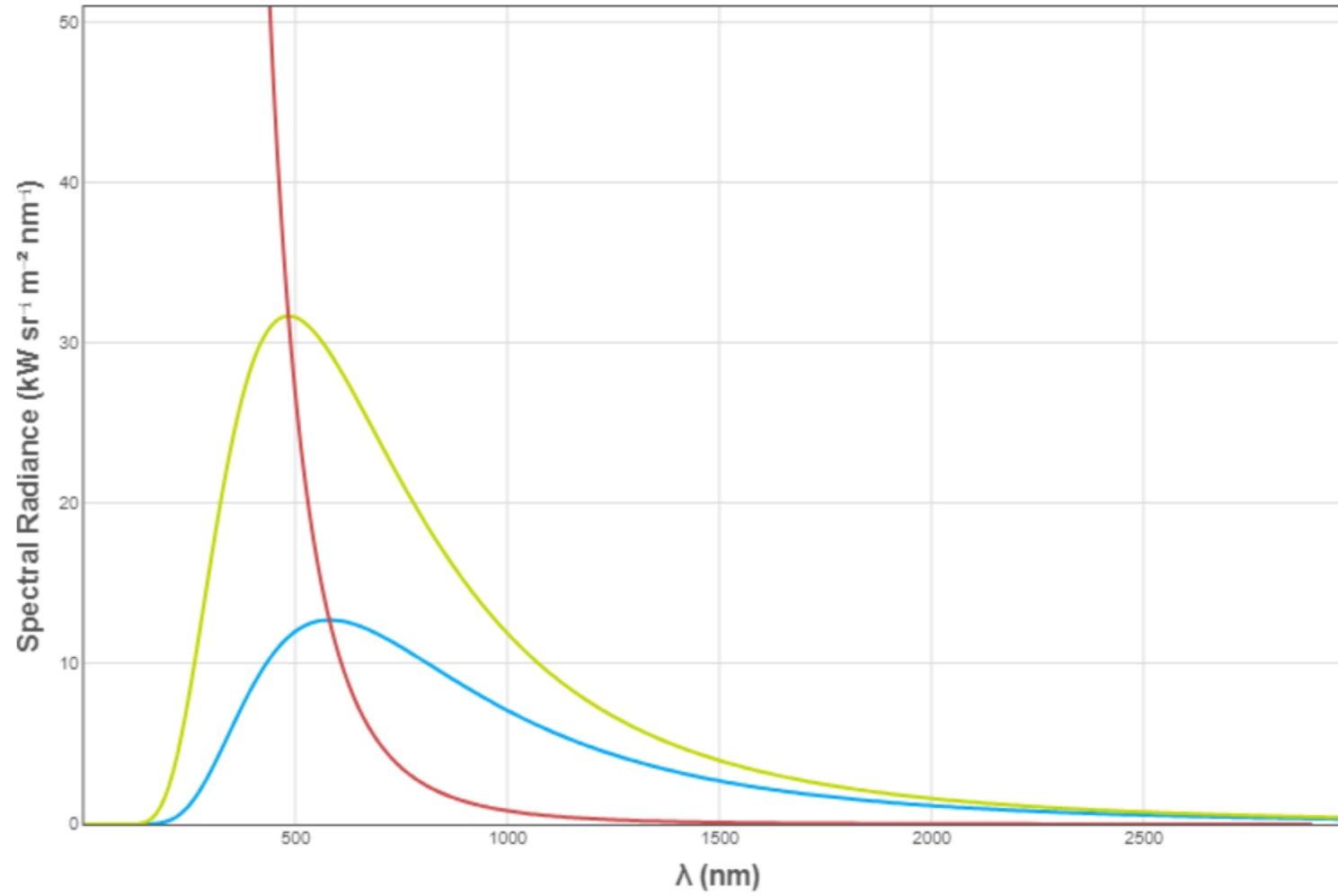
**Learn More**



**Self-Assessment**



# Workspace



Temperature 1

5000

K

Temperature 2

6000

K

Display Wien's Displacement Law?





# Probability distribution of a two-option system (even and odd) with the help of rolling dice

E-Text	▼
Video/ Visuals	▼
Animation/Simulation	▼
<b>Do Yourself</b>	▼
Learn More	▼
Self-Assessment	▼

Select Option

2 Option

No of Die

2

Your Name

Your Email ID

SUBMIT

RESET

