



# ST. ALOYSIUS' COLLEGE

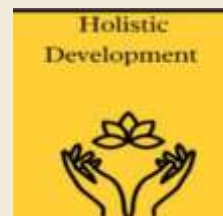
AUTONOMOUS  
JABALPUR- 482001  
MADHYA PRADESH, INDIA

## CRITERION-2

### TEACHING-LEARNING AND EVALUATION



**Key Indicator – 2.3**



**Teaching - Learning Process**

**Metric No.: 2.3.1**

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process



**Document Name**  
**Online Simulation Tools**  
**2023-24**



# ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

## Online Simulation Tools



S.No	Content
1	List of Simulation tools
2	Approval letter of Institution as Nodal Center of Virtual Lab, IIT, Kanpur



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## Online Simulation Tools

S.NO.	Name of Online Simulator	Name of Department
1.	VORTEX	Department of Zoology
2.	ANATOMAGE	Department of Zoology
3.	GEKKO	Department of Physics
4.	GNU OCTAVE	Department of Physics
5.	MATLAB	Department of Physics
6.	VUMIE	Department of Botany and Microbiology
7.	PC4NANOBIO: CANCER NANOTHERAPY SIMULATOR	Department of Biotechnology
8.	COMPU CELL 3D	Department of Biotechnology
9.	POPULATION DYNAMICS	Department of Botany and Microbiology
10.	SOIL TEXTURE	Department of Botany and Microbiology



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## NODAL CENTER OF VIRTUAL LAB (IIT KANPUR)



An Initiative of Ministry of Education  
Under the National Mission on Education through ICT



### Prof. Kantesh Balani

PI, Virtual Laboratory at IIT Kanpur  
Department of Materials Science & Engineering  
Indian Institute of Technology Kanpur,  
Kanpur-208016, Uttar Pradesh, India

Date: May 21, 2024

Place: Kanpur

#### TO WHO SO EVER IT MAY CONCERN

This is to certify that the St. Aloysius Senior College, Jabalpur, has been recruited as **Official Nodal Center of Virtual Laboratories at Indian Institute of Technology Kanpur** under **MoE's initiative of Virtual Labs** project with Prof. Kantesh Balani as the Principal Investigator. As recommended by you, **Mr. Prakash Langey** has been nominated as the Nodal Coordinator from your college. This approval is valid up to 31<sup>st</sup> Dec 2024 and is subject to the Terms & Conditions attached and any subsequent directives as issued by MoE.

Your Institute is required to conduct virtual lab workshops and encourage faculty and students at your institute to use Virtual Lab to its fullest potential. If needed, the repository of the experiments may also be involved in your Institute's course curriculum. Principal Investigator will be available in case of any assistance that you might require in hosting lectures or workshops without any financial support. Ensure that the Virtual lab usage along with the number of workshops are intimated to Mr. Dhananjay Umrao ([umrandhananjay@gmail.com](mailto:umrandhananjay@gmail.com)) every three months.

We welcome you to the Virtual Lab family.

Best regards

  
Prof. Kantesh Balani

PI, Virtual Laboratory at IIT Kanpur

Contact:

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