



**Himanshu Sen**  
**UG III yr.**  
**SGSITS, Indore**  
**13 July 2002**  
**Email ID: senmanish312@gmail.com**

**Enrolment No. 0801BM201024**  
**Department: Biomedical**  
**Gender: Male**  
**Specialization: None**  
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### Academic Details

Degree / Certificate	University / Board	Institute / School	Year of Passing	CGPA / Percentage
Graduation	RGPV	Shri G. S. institution of science and technology	2024	8.25 CGPA
12 <sup>th</sup>	CBSE	Sanmati school	2019	83.4
10 <sup>th</sup>	CBSE	Sanmati school	2017	7.4 CGPA

### Scholastic Achievements

- 2<sup>nd</sup> prize in drawing competition 2015

### Internship section

**2 months**

#### At Bombay Hospital

Biomedical department  
Ms. Dayaram Malviya

- Completed a project during my internship involving the study of "Biomedical Equipment's Physical Location and Verification".
- Acquired knowledge and experience in PMS, AMC, CMC, purchase cycle, and handling non-operational machines.
- Developed a brief understanding of operation theatre equipment and hospital management systems (HMS).
- Demonstrated my ability to adapt to new environments and learn new skills quickly.

#### At S.G.S.I.T.S. college

**1 month**

Mrs. Avni Jain

Biomedical  
department

- Developed a low pass filter kit during my internship, utilizing IC 741 and a  $\pm 12$  V power supply along with other components, including a variable capacitor to adjust voltage. The filter was designed to detect human frequency ranges between 5 Hz and 150 Hz, showcasing my proficiency in circuit design and electronics.

### Academic Projects

#### Burglar Alarm

Mrs. Shivani Shukla

Department of  
Electronics and  
Instrumentation

- A piece of equipment, usually fixed on a wall, that makes a loud noise when a burglar enters a building. Installing Burglar alarm in commercial buildings like offices, movie theatres, shopping malls, and other public places is compulsory.

## Technical Projects

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### Face-Recognition

1 month

- Developed a Python-based project utilizing the MTCNN and Face Recognition algorithms for detecting and recognizing individuals. Utilized MTCNN for face detection and pre-processing, and Face Recognition for facial feature extraction and recognition. Implemented algorithms to accurately count the total number of people in a given image or video, and to identify and label each individual with their corresponding name.

### Attendance Management System

1 month

- Developed a full-stack web application using Django framework that allowed for the storage and management of student data through an admin portal, and enabled students to mark their attendance through a student portal. Implemented a face recognition algorithm to compare student's faces with the data saved in the database, marking them present or absent accordingly.
- Proficient in using HTML, CSS, and JavaScript for creating visually appealing website interfaces, with experience in backend development using Django and MySQL for robust and scalable web applications.

## Platforms, Languages, Technologies & Tools Worked

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- **Operating Systems** : Windows
- **Programming Skills** : C, C++, Python, MySQL, DSA
- **Web Designing** : HTML, CSS, Node.js, Django
- **Software Skills** : VS-code, MATLAB, IntelliJ idea, Canva, AWS

## Courses Undertaken

Core	Breadth
<ul style="list-style-type: none"><li>• Biomedical instrumentation 1</li><li>• Biomedical instrumentation 2</li><li>• Biomedical statistic signal processing</li><li>• Biomaterials</li><li>• Human physiology and anatomy</li><li>• Medical Imaging</li></ul>	<ul style="list-style-type: none"><li>•• Analog and Digital</li><li>•• Programming tools and technique</li><li>• Mathematics</li><li>• Signal and system</li><li>• Control system</li><li>• Industrial Production</li></ul>

## Extracurricular Activities

Trivium

Since 2<sup>nd</sup> Sem

- 
- Served as a coordinator for the Trivium Club and contributed as a group member of both the management and design teams. Demonstrated leadership and teamwork skills in organizing and managing events, while utilizing creativity and design expertise to produce visually appealing materials.