

Curriculum.html

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1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>B.Tech 1st Semester Curriculum - ABES Engineering College, Ghaziabad</title>
7 </head>
8 <body>
9   <h1>ABES Engineering College, Ghaziabad</h1>
10  <h2>B.Tech 1st Semester Course Curriculum</h2>
11
12  <p><strong>Welcome</strong> to the <em>B.Tech 1st Semester Curriculum</em> at ABES
Engineering College, Ghaziabad, Uttar Pradesh, India. This semester introduces <u>foundational
subjects</u> to build a strong base for engineering studies.</p>
13
14  <h3>Subjects</h3>
15    <p><b>Data Structures: </b>Introduction to fundamental data structures like arrays,
linked lists, stacks, queues, trees, and graphs. Emphasis on algorithms for efficient data
manipulation.</p>
16
17    <p><b>Soft Skills: </b>Development of communication, teamwork, leadership, and time
management skills through interactive sessions and presentations.</p>
18
19    <p><b>Design Thinking: </b>Exploration of creative problem-solving methodologies,
empathy mapping, ideation, prototyping, and testing for innovative engineering solutions.</p>
20
21    <p><b>Basics of Mechanical and Automation Engineering: </b>
Fundamentals of mechanics, thermodynamics, materials, and introduction to automation
systems like PLC and robotics.</p>
22
23    <p><b>Basics of Electronics Engineering: </b>Basic concepts of circuits,
semiconductors, digital logic, and electronic devices for understanding hardware foundations.
</p>
24
25    <p><b>Basics of Linear Algebra and Statistics: </b>Core topics in vectors, matrices,
linear transformations, probability, and statistical inference essential for engineering
computations.</p>
26
27    <p><b>Web Designing: </b>Basics of HTML, CSS, JavaScript, and web development tools to
create responsive and interactive web pages.</p>
28  </dl>
29
30  <h3>Course Outcomes</h3>
31  <ul>
32    <li>Acquire foundational knowledge in core engineering disciplines.</li>
33    <li>Develop problem-solving skills through design thinking and data structures.</li>
34    <li>Enhance communication and teamwork via soft skills training.</li>
35    <li>Understand basics of mechanical, electronics, and mathematical tools for future
semesters.</li>
36
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37         <ul>
38             <li><em>Mechanical:</em> Mechanics & Automation</li>
39             <li><em>Electronics:</em> Circuits & Devices</li>
40             <li><em>Math:</em> Algebra & Stats</li>
41         </ul>
42     </li>
43     <li>Build practical web development skills.</li>
44 </ul>
45
46     <p>&copy; <em>2025</em> ABES Engineering College, Ghaziabad. All rights reserved. &mdash;
47     <u>Contact:</u> info@abes.ac.in</p>
48 </body>
49 </html>
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