





## Information Brochure

### DEPARTMENT OF MEDICAL DEVICES, NIPER GUWAHATI

<b>4</b>	<b>Course Outcomes</b>	<p>Upon successful completion of the PG Diploma in Medical Devices, students will be able to:</p> <ul style="list-style-type: none"> <li>• Apply advanced concepts of medical imaging, instrumentation, and biomaterials in device design and development.</li> <li>• Conduct and interpret biostatistical analysis for medical research and product development.</li> <li>• Design and implement biosensors for clinical and diagnostic applications.</li> <li>• Understand and apply regulatory requirements in the development of medical devices.</li> <li>• Utilize artificial intelligence and signal processing in the design and enhancement of medical devices.</li> <li>• Develop and test medical devices in compliance with international standards for biocompatibility and safety.</li> </ul>
<b>5</b>	<b>Eligibility</b>	<p>B.Pharm./ M.B.B.S / BDS / B.V.Sc / B.E or B.Tech (Biotechnology / Biomedical / Biophysics / Electronics / Instrumentation / Mechanical / Biochemical / Health Sciences or allied subjects) / 4-year BS course (Chemistry/ Mathematics &amp; computing/Physics/Programming/Data Science) / Post Graduation in Chemical Sciences / Life Sciences / Material Sciences / Physical Sciences / Biotechnology / Biomedical / Biophysics / Electronics / Instrumentation / Biochemical / Health Sciences / Medical science &amp; Technology or allied subjects as applicable in GATE/ NET.</p>
<b>6</b>	<b>Faculty</b>	<p>Faculty members including subject matter experts from different departments of NIPER Guwahati and other national institutes like IITs, AIIMS, etc. Further industry professionals deliver guest lectures for the relevant courses.</p>
<b>7</b>	<b>Facilities</b>	<ul style="list-style-type: none"> <li>• Medical devices testing and calibration facility (MDTF, an NABL Accredited Lab).</li> <li>• Biosensor and Devices Lab</li> <li>• Biomaterials and Biofabrication Lab</li> <li>• Design Lab with Additive Manufacturing Facilities</li> <li>• PARAM Embryo Supercomputing Facility</li> <li>• Smart classroom</li> <li>• Apart from the above, we have centralized facilities like a Central Animal house facility, an In-vitro cell facility, a Central Instrumentation facility, etc</li> </ul>
<b>8</b>	<b>Fee Structure</b>	<p>For GEN/OBC</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> Semester: Rs. 32,319/-</li> <li>• 2<sup>nd</sup> Semester: Rs. 20,823</li> <li>• <b>Total for 1 year: Rs. 53,142/-</b></li> </ul> <p>For SC/ST</p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> Semester: Rs. 25,319/-</li> <li>• 2<sup>nd</sup> Semester: Rs. 17,823/-</li> <li>• <b>Total for 1 year: Rs. 43,142/-</b></li> </ul>

### Placements:

Since the Inception of the Department (2020), M.Tech and Ph.D. in Medical Devices course has been running effectively and productively. Till date, 05 batches have graduated successfully from the institute. **For consecutively past 03 years, 90 percent Medical Devices students got placement in both International and National reputed industries like Stryker, Biotekortho, Innvolution, Maven Profcon, Zenith Quality Assessors, etc. The rest have opted for higher studies.**