

**FUEL CELL EXPERIMENT TEST RIG**

**Photo of Instrument:**



<b>Instrument Name</b>	Fuel Cell Experiment Test Rig
<b>Instrument Model &amp; Serial No.</b>	EL 1500, Nexa®
<b>Instrument Make</b>	Heliocentris
<b>Category of Instrument</b>	Characterization and Testing
<b>Description of Instrument</b>	<p>The Nexa® Training System is a modular fuel cell training system with an electrical rated output of 1.2 kW. The system is based on the Nexa® Power Module developed by the company Ballard Power Systems.</p> <p>The Nexa® Training System consists of the following components:</p> <ol style="list-style-type: none"> <li>1. Metal Hydride Storage Module</li> <li>2. Fuel Cell Module</li> <li>3. Power Management Module</li> <li>4. Electronic Load Module</li> </ol>

## Department of Mechanical Engineering, NIT Calicut

	5. PC and software
<b>Instrument Technical Description and Major Specifications</b> (This Specifications Limited to Major 5)	
<b>Application of Instrument</b> (Limited to Major 4 or 5)	
<b>Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.)</b> <b>Guidelines for Sample Submission – User Instructions</b>	
<b>Types of Analysis / Testing</b>	
<b>Faculty In-Charge Name / Email / Contact</b>	Dr. A. Shaija, shaija@nitc.ac.in, 9495892717;  Dr. Vinod Kumar Sharma, vinodks@nitc.ac.in 9981263331
<b>Technical Staff Name / Email / Contact</b>	Mr. Abhilash A, <a href="mailto:aabilash@nitc.ac.in">aabilash@nitc.ac.in</a> , 9847835655
<b>Location of Instrument</b>	Fuel Cell lab
<b>Other Details</b>	

### User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
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### Slot Booking and Payment Work Flow: