

**GAS CHROMATOGRAPH (GC)**

**Photo of Instrument:**



<b>Instrument Name</b>	<b>Gas Chromatograph (GC)</b>
<b>Instrument Model &amp; Serial No.</b>	<b>Clarus 580</b>
<b>Instrument Make</b>	Perkin Elmer
<b>Category of Instrument</b>	Characterization and Testing
<b>Description of Instrument</b>	An analytical technique used to separate and detect the chemical components of a sample mixture to determine their presence or absence and/or quantities.
<b>Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)</b>	Scan Rate-Fully variable up to 12,500 amu/sec Mass Range-1.0-1,200 (amu) Turbomolecular pump capacity 75l/sec
<b>Application of Instrument (Limited to Major 4 or 5)</b>	It can be used for the qualitative and quantitative analysis of food products, quantification of additives, identification of flavour and aroma

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	compounds, and the detection of contaminants like pesticides and natural toxins.
<b>Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions</b>	Aqueous sample
<b>Types of Analysis / Testing</b>	Volatile Organic compounds
<b>Faculty In-Charge Name / Email / Contact</b>	Dr.George K Varghese gkv@nitc.ac.in 9744341214 & Dr. Bhaskar S bhaskars@nitc.ac.in 9742720843
<b>Technical Staff Name / Email / Contact</b>	Amardip Kumar Vishvakarma amardeepvns786@gmail.com
<b>Location of Instrument</b>	Environmental Engineering Research 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: