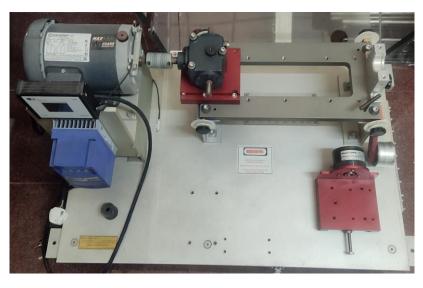
Department of Mechanical Engineering, NIT Calicut

MACHINERY FAULT SIMULATOR

Photo of Instrument:



Instrument Name	Machinery Fault S	Machinery Fault Simulator				
Instrument Model & Serial No.	MFS2010-PK3	MFS2010-PK3				
Instrument Make	SpectraQuest	SpectraQuest				
Category of Instrument	Characterization a	Characterization and Testing				
Description of Instrument	signatures of commeflects a modular operational simmon component of the tolerances so it can conflicting vibrations faults eith	Machinery Fault Simulator is used for studying signatures of common machinery faults. The system reflects a modular design that provides versatility, operational simplicity and robustness. Each component of the simulator is machined to high tolerances so it can be operated without any significant conflicting vibrations so that user can introduce various faults either individually or jointly in a totally controlled environment.				
Instrument Technical Description						
and Major Specifications (This	RPM Range Shaft Diameter	0 to 6000 rpm 3/4" diameter; TPG Steel				
Specifications Limited to Major 5)	Rotors	Two 6" aluminium with 36 threaded holes				
	Instrumentation Connectors	16 BNC connectors				

Department of Mechanical Engineering, NIT Calicut

Application of Instrument (Limited to	1)Balance Training			
T-PP	2)Shaft Alignment Training			
Major 4 or 5)	3)Coupling Studies			
Wajor + or 5)	4)Alignment System Assessment			
	+)/ Mighment bystem / issessment			
Type of Sample Required for	Shafts			
Analysis / Testing (Quantity, Pre-	Sleeves			
Preparation, State etc.)	Couplers			
Guidelines for Sample Submission –	Sleeve Bearing			
User Instructions	Gearbox studies			
Types of Analysis / Testing	Fault Detection Tests			
Faculty In Change Name / Emel /	Dr. Ashash Caha			
Faculty In-Charge Name / Email /	Dr. Ashesh Saha			
Comtact	ashesh@nitc.ac.in			
Contact	9451545350			
	Dr. Amit Kumar Rai			
	amitrai@nitc.ac.in			
	7355542803			
Technical Staff Name / Email /	Shibin			
	shibinr@nitc.ac.in			
Contact	9746493487			
Location of Instrument	Dynamics and Vibration Laboratory			
Location of Instrument				
	(Room No. 118)			
Other Details				

User Charges (per hour/ per person):

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1		200	200	300	300	300

Note: Consumables and any other expenditure charges will be as per requirement, if any.

Slot Booking and Payment Work Flow: