

Details of Lab equipments and software of SIU 19 February 2024

Sr. No.	Name of the Faculty	Institute Name / Location	Name of the Equipment
1	SCMS- B:URL: https://www.scmsbengaluru.edu.in/		All In One Desktop (Dell), Specifications: Dell OptiPlex 3280
2	SCMC:URL: https://www.scmc.edu.in/	Symbiosis Centre for Media & Communications, Vimanagar	Statistics: SPSS (10 Users) and NVIVO: 1
3	SIOM: URL: https://www.siom.in/	Symbiosis Institute of Operations Management (SIOM), Nashik	Software: <ol style="list-style-type: none"> 1. SPSS 26 Base, 2. Conjoint and Direct Marketing, 3. SPSS AMOSS, 4. SPSS Statistics 26, 5. SAS JMP Analatical Suite, 6. Atlass.ti
4	SCSCR: URL: https://scscr.edu.in/	Symbiosis Centre for Stem Cell Research (SCSCR)	<ol style="list-style-type: none"> 1. Quantitative PCR machine, Make Applied Biosystems, 2. Thermo Fisher Scientific Make: Quant Studio 3, 3. Biosafety Cabinet Class 2 Make Microfilt and ESCO, 4. Ultracentrifuge Make: Beckman Coulter Optima XPN-1000 Ultracentrifuge – 01 5. Flow Cytometer Make: BD Biosciences, FACS Melody 6. Fluorescent Microscope Make: Carl Zeiss, AxioVert., Apotome 2.0 7. Plate Reader, Make BioTek Synergy H1 8. Mechanical texture Analyzer

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			Make: Shimadzu, UTM EZ-SX
5	SCMS: URL: https://scmspune.ac.in	Symbiosis Centre for Management Studies-Pune	IBM-SPSS V29, IBM-SPSS V26, IBM-SPSS V23, IBM-Amos V26, Tableau V23
6.	SCMHRD : URL: https://scmhrd.edu	Symbiosis Centre For Management and Human Resource Development Symbiosis Infotech Campus	<ol style="list-style-type: none"> 1. IBM SPSS Ver 25 2. IBM Amos ver 23 3. E-Views 4. Stata 5. Decision Tools (Palisade @Risk), 6. Minitab 15 7. Minitab 16 8. Tableau Desktop 9. Nvivo 10 10. Nvivo 12 11. Primavera P6 Enterprises Project Portfolio management
7.	SIDTM: URL: https://sidtm.edu.in	Symbiosis Institute of Digital and Telecom Management	<p>Data Analysis software</p> <ol style="list-style-type: none"> 1. IBM SPSS model Version 25, 2. Stata- Model Stata/ IC 15 3. Tableau Model- Tableau Personal 4. Python -Model Python 3.11.7 5. R-project -Model- R 4.3.2 , 6. Orange- model Orange 3.36.2, 7. Simulation Software (Cisco- Model Packet Tracer 8.1.1)
8.	SIT: URL: https://www.sitpune.edu.in	Symbiosis Institute of Technology	Mentioned in separate Sheet

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Symbiosis Institute of Technology

MECHANICAL

Name of the Instrument/ equipment	Make	Model	Category Specification
Computerized Heat Exchanger Supply unit	XEEPL	ATE 095C	
3D printer	3 D Master	Elegoo Saturn S	
UV Light Curing Chamber	3 D Master	Creality UW02	
Microscope	Make: 4.2 Magnus Binocular Magnus	Model MLX-B Plus (Semi Plan)	
DFT coating tines tester CM-801	MEXTECH	MODEL-CM-801	
UV light meter	Model: UV-254	Model: UV-254	
THERMAL IMAGING CAMERA THERMAL IMAGER WITH HT FILTER			THERMAL IMAGING CAMERA Thermal imager testo 871 with wireless module BT/wireless LAN, USB cable, mains unit, Lithium ion rechargeable battery, pro software, 3x E-markers, quick-start guide, short instructions, calibration protocol* and case THERMAL IMAGER WITH HT FILTER FOR T875-21 &/OR T881 2 &/OR T882 40,200,325,425,525 5 point NABL calibration certificate for Thermal imager without HT filter multipoint marking
Solar Water Heating System			Shell and Tube heat Exchanger Solar Water Heater
COLD ROOM INDOOR & OUT DOOR UNIT	Innovation Project ltd	Assembled 6 ft x 4ft x 6ft	COLD ROOM INDOOR & OUT DOOR UNIT Refrigeration unit, Outdoor unit No1, Compressor Emersion make, Compressor Capacity -1 ton, Refrigerant – R 134a, Condenser Copper Fan 300 MM No1, Body Material Powder coating, Power 1 Phase 230V, Power consumption load 1.5 kW,

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			Indoor Unit no1, Evaporator coil copper, Fan 300 MM No1, Body Material SS 304
8 CHANNEL BATTERY CELL	MEL SYSTEMS AND SERVICES LTD	17208M-6-30	1)Voltage range-0MV~600 2)Accuracy output and measurement-UP TO 0.02%f 3)Power input and front wiring-6V/30 A/8 4)Expandable-Up tp 32 channels
BATTERY POWER PACK TESTER	ADOR DIGATRON PVT LTD	MCDR-75-350-3 SCI	1)Power supply-3 Phase,415 VAC, +/- 10%,50Hz 2) Power consumption-87 KVA 3)Voltage range-20-350V 4). Current range-1-75A
EDDY CURRENT DYNAMOMETER	SAJ TEST PLANT PVT LTD	AG 5	1)Power Max-50KW 2)R.P.M.-10000 3)Cooling system-Water based
CNC LATHE	HASS	GT 10	3000 RPM
VMC	JYOTI		21 TOOLS MAGZIN
MILLING MACHINE	BFW	UNIVARSAL	UF-1
LATHE MACHINE	HIGH CUT	3503	ALL GARED
TIG WELDING MACHINE	TECHNOCRAFT	TECHNO TIG	10 TO 70 AMPS
MIG WELDING MACHINE	TECHNOCRAFT		300 AMPS
ARC WELDING MACHINE	ADOR	TPA 403	60 TO400 AMPS
ALUMINIUM MELTING FURNACE	AMRUTA THURMAL	25 KG	STATIONARY TYPE

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CIVIL

Name of the Instrument/ equipment	Make	Model	Category Specification
Ultrasonic Pulse Velocity Meter	Proceq	Pundit Lab+	Ultrasonic pulse velocity test is a nondestructive popular test used to examine the homogeneity, quality, cracks, cavities, and defects in concrete.
Accelerated Curing Tank	AIMIL	AIM:355-1-ACB	Curing is the process of controlling moisture loss from concrete that has already been placed. Curing ensures hydration of the cement, which in turn enhances its strength and durability.
Concrete Maturity Meter	C-Probe Technologies	CP-CMM Std. CMM V12021	Concrete maturity is an index value that represents the progression of concrete curing.
Crack Detection Microscope	Laxmi Sales And Agencies	WF10X 18mm	Used to measure crack width in concrete structures, by operating via an adjustable light source
Cylindrical Mould	EIE Instruments	IS-10086	Cylinder Mould is used to prepare cylinder shaped concrete sample for compression testing
Thermo Scientific Colorimeter	Thermo Fisher Scientific (Orion), USA	AQ 3700	To measure the concentration of a chemical in a solution if the chemical imparts a characteristic colour to the solution.

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Rainuage	Dynalab Weathertech Pvt. Ltd	DTR-8104	To gather and measure the amount of liquid precipitation over a predefined area, over a period of time
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E& TC

Name of the Instrument/ equipment	Make	Model	Category Specification
Flow Monitoring System along with SKID	Forbes Marshall	KROHNE 820	Instumentation Flow Monitoring & Control
FSH 1309.6000K04 Handheld Spectrum Analyzer 9kHz to 3.6 GHz, with preamplifier ID :1309.6000K04-116317-FW With following configuration: FSH4 1309.6000K04 Handheld spectrum analyzer 9Khz to 3.6 GHz, with preamplifier FSH-K40 1304.5606.02 Remote control via LAN or USB for FSH4/8 (software license) Calibration Certificate	Make - Rohde & Schwarz		Spectrum Analyzer

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RA

Name of the Instrument/ equipment	Make	Model	Category Specification
Electric Discharge Machine & Accessories	Electronica	With 3 Axis DRO	Non conventional machining
Tribology Tester	DUCOM	PIN ON DISK TYESTER (UP TO 200N) TR-20LE	Wear and Friction monitor
Laboratory ball mill	Xtreme Engineering Equipment Pvt. Ltd.	111	Powder Metallurgy
3 Axis CNC micro milling & Engraving machine	N-Gravetek CNC Engraving Machine Manufacturer	NGK -SC-2020 3D CNC ENGRAVER	Machining of Aluminium and brass materials
DC Regulated power supply	AZ Electronics	10-200V 10-100AMP DCPS with voltage and current potentiometer	DC Power Supply
Digital Coating Thickness Gauge with PC Interface RS 232C software & USB Adaptor	Metrix	Coat spec i	Coating Thickness Measurement
Vaccum bagging kit	Truvac		Composite Manufacturing

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CS

Name of the Instrument/ equipment	Make	Model	Category Specification
CL-1			
CL-2			
CL-3			
CL-4			
CL-5			
CL-6			
CL-7			
Workstation Qty. 3	HP	Z8 G4 WKS	Intel(R) Xeon(R) Silver 4208 CPU, 128GB RAM 512GB SSD NVIDIA RTX A4000 16 GB Win11 Pro with HP p24v G5 FHD Monitor
CL-8			
CL-9			
CL-10			
CC-1			
CC-2			
NVIDIA DGX A100	Nvidia	NVIDIA DGX A100	NVIDIA DGX Station A100, GPU 4x NVIDIA A100 80 GB GPUs, CPU - Single AMD 7742, 64 cores, 2.25 GHz (base)–3.4 GHz (max boost), RAM - 512 GB DDR4, Storage OS: 1x 1.92 TB NVME drive, Internal storage: 7.68 TB U.2 NVME drive

software Tools

Statistics	Management	IBM-SPSS V28	Data Analysis
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AIML

Name of the Instrument/ equipment	Make	Model	Category Specification
CL-1	HP		
Workstation qty. 31	HP	Z8 G4 Workstation	Intel(R) Xeon(R) Silver 4208 CPU, 128GB RAM 512GB SSD NVIDIA RTX A4000 16 GB Win11 Pro with HP p24v G5 FHD Monitor
Imac qty. 31	Apple	Imac 24" A2438	Apple M1 chip, 16gb Ram, 512Gb ssd

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APPLIED SCIENCE

Name of the Instrument/ equipment	Make	Model	Category Specification
Hotplate	BTI-22	10012	8" Diameter 50 -300degree temperature range
Magnetic Stirrer	Remi	-	1 litter holding capacity
Ultrasonic Cleaner	BTI 4815	15LSOH	1.5 lit capacity
Laboratory ovan	BTI 29	21230	SS shelves 27 lit capacity
Spin coater	NTI2000V1	NT 12000 V1	Spin coater
Ultrasonicator	SM 250		Ultrasonic cleaner
Frank Hertz set	BA	1153	a kit box
Kundts tube set	UB30M	10419094	a glass tube, amplifier and funtion generator
Helmholtz coil set	RQ1HU5	2N3055	two coils, a probe, two connecting wires, gauss meter, bench with stand and DC power supply
Ultrasonic Interferrometer	Mittal Entp.	F80	a traveling screw guage and a kit
PhotoCell Effect Expt.	8541	M065	a selenium photo cell, a light source, meter scale and one Digital Multimeter connecting wires
Planks constant power supply			a lamp source, a DC power supply for planks constant and photocell
Spectrometer	MVTEX	Delux	a whole spectrometer
Michelsons interferrometer	VHS	MI 1/8	The whole set up with inbuid spectrometer and glass
Malus law set up & power supply	VHS	MLUS 1/12	kit box
Hall effect set up	VHS	HE 81	A kit box with gausss meter
e/m Thomsons method	VHS	-	e/m by Thompsons method with compass and deflection magnetometer
Characteristic of UJT	VHS	-	a kit box
Characteristic of FET	VHS	-	a kit box
Kit for Stefans law	VHS	KSI 1	A kit box
Kit for Fiber optics	VHS	-	a kit box

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ESR Spectrometer	VHS	-	a spectrometer
ESR Spectrometer H-Coil	VHS	ESR 105	with a gauss meter a setup
Four Probe	VHS	DFP 02	with oven and connecting wires
Magnetic susceptibility measuring set up	M96	MECD	with electromagnets and digital meters
Muffle Furnace	BTI	BTI 36	Size 9*4*4
UV-Visible Spectrophotometer	Systronics	2203	Environmental, Material, Biological Analysis
Muffle Furnace	Bio-Technics	BIT36	Environmental, Material, Biological Analysis
pH meter	Esico International	EQ-111	Environmental, Material, Biological Analysis
Hot Air Oven	Bio-Technics	BIT29	Environmental, Material, Biological Analysis
Distillation Unit	Borosil	B3361	Environmental, Material, Biological Analysis
Rotary Shaker	Bio-Technics	BIT05	Environmental, Material, Biological Analysis
Peristaltic Pump	Ravel	RH0770-50	Environmental, Material, Biological Analysis
Vaccum Oven	Bio-Technics	BIT12	Experiment
Tube furnace	Ants Innovations	1200 Degrees	Sample Calcination
UV-Visible Spectrophotometer	Equiptronics	EQ-826	Optical characterization
Pallete press	Kimaya Engineers	15 tonnes	Material Synthesis
Photochemical Reactor	Lelesil Innovative Systems	100 ml reactor	Hazardous pollutants analysis
Mulimeter	Kaithley		Experiment
Balance	Shimadzu	ATY224	Weighing
Spin Coater	Navson		Thin film synthesis
Centrifure	Remi	R-24	Phase separation
Heating mantal	Remi	2RML	Material synthesis
Magnetic stirrer	Remi	2MLH	Sample preparation
Tubular furnace	VB Ceramic Consultance (MMTCL)	Table Top-Premium	Temp. 1100° C, purging facility, controlled gas flow, operation (manual/automated)
Gas sensing set up	Prism Electronics Systems	Customized equipment	Gas sensing setup with mass flow controller and digital pico ammeter
Potentiostat	Autolab	Multi Autolab MAC 204	M204 multichannel potentiostat/galvanostat module

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Microwave Oven	Catalyst Systems	CATA-R	Scientific microwave synthesizer output 850w or adjustable power level, purging gas facility, cavity vol. 25 to 30 L (with accesories)
Vacuume oven	Rajesh Electricals and Engineering Works	Customized equipment	Max. temp 200° C with controller, release & suction valve for gas
Centrifuge	Remi	R8CPLUS	Centrifuge with fixed angle rotor head (angle rotor suitable for 6 tubes of 50 ml)
Magnetic sitrrer	Remi	ReMI 2MLH	Magetic stirrer with heater for 2L capacity
Hot plate rectangular	Bio Technics India	BTI-23	10*12 inch rectangular hot palte with controled heating for reserach sample drying
Hot plate round	Bio Technics India	BTI-22	8 inch round hot plate for research sample drying
Nitrogen cylinder	Deluxe	SS 316	It is used for making inert atmosphere conditions in equipment
Vacuum pump	Value	VE2100N	It is used for making vacuum conditions in desiccators and gas sensing equipment
Ultrasonication	Bio Technics India	1.5L50H	Ultrasonicator for research samples uniform mixing and labware cleaning
Analytical Balance	KERRO	BL3003	Analytical balance with a least count of 1 mg.

SOFTWARE TOOLS

Name	Discipline	Software
Simulation	Mechanical Engineering	Ansys CFD
Design Software	Mechanical Engineering	Autocad Campus Lic.
Robotic & Automation	Robotic and Automation Engineering	Automation Studio Famic
Civil Engineering Estimation	Civil Engineering	Autosteel and Autoscan
Electronic PBB Designing	Electronics & Tele-Communication	Cadence

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Design Software	Mechanical Engineering	Catia
Language Lab software	Applied science Engineering	Clarity Snet
Statistics	Computer Science & Engineering	IBM SPSS
Design Software	Mechanical Engineering	Inventor Professional
Design Software	Mechanical Engineering	Master Cam
Mathematica	Applied Science Engineering	mathematica
	Electronics & Tele-Communication	Matlab
Embedded software	Electronics & Tele-Communication	Perceprio RTOS
Robotic & Automation	Robotic and Automation Engineering	Robotics Simulation Coppelllasim
Robotic & Automation	Robotic and Automation Engineering	Rockwell Automation & communication ESD Studio
Robotic & Automation	Robotic and Automation Engineering	Rockwell Automation Factory Talkveiw Studio Enterprise
Design Software	Civil Engineering	Staad Pro

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SIBM, Hyderabad

Applications @ SIBM Hyderabad: https://www.sibmhyd.edu.in/			
S.No.	Name of the Software	No. of License	License Type
1	Falcon Endpoint Protection Antivirus	160	Licensed
2	IBM SPSS Version 25	40	Licensed
3	IBM AMOS Version 25	20	Licensed
4	Tableau	1	Licensed
5	Koyfin	2	Licensed
6	Tally Prime	2	Licensed
7	CMIE Prowess IQ (University Licence)	1	Licensed
8	Eduwiz (University License)	1	Licensed
9	Koha (University License)	1	Licensed
10	Microsoft Office 2016	160	Licensed
11	Adobe DC	5	Licensed
12	Adobe CC	1	Licensed
13	Superset Placements automation & analytics platform	1	Licensed
14	Windows R	80	Opensource
15	R Studio	80	Opensource
16	VLC Media Player	160	Opensource
17	Adobe Acrobat Reader	160	Opensource
18	Clean Up	160	Opensource
19	PeaZip	160	Opensource