

# 1. Central Instrumentation Centre

# 1. Central Instrumentation Centre

(1125 Sq. ft.)

The central instrumentation facility was established to promote research activities at BSACIST. The list of major facilities for experimental and simulation analysis can be obtained from the following link:

<https://crescent.education/research/about-us/major-research-facilities/>

## The objective of the centre:

- To enable the researchers from academic institutes, R&D laboratories, and industries to carry out their analysis / characterization / measurements.
- To expedite the research data collection process among researchers of BSACIST
- To update the research facilities of the Institute through research projects sponsored by various government and non-government agencies.

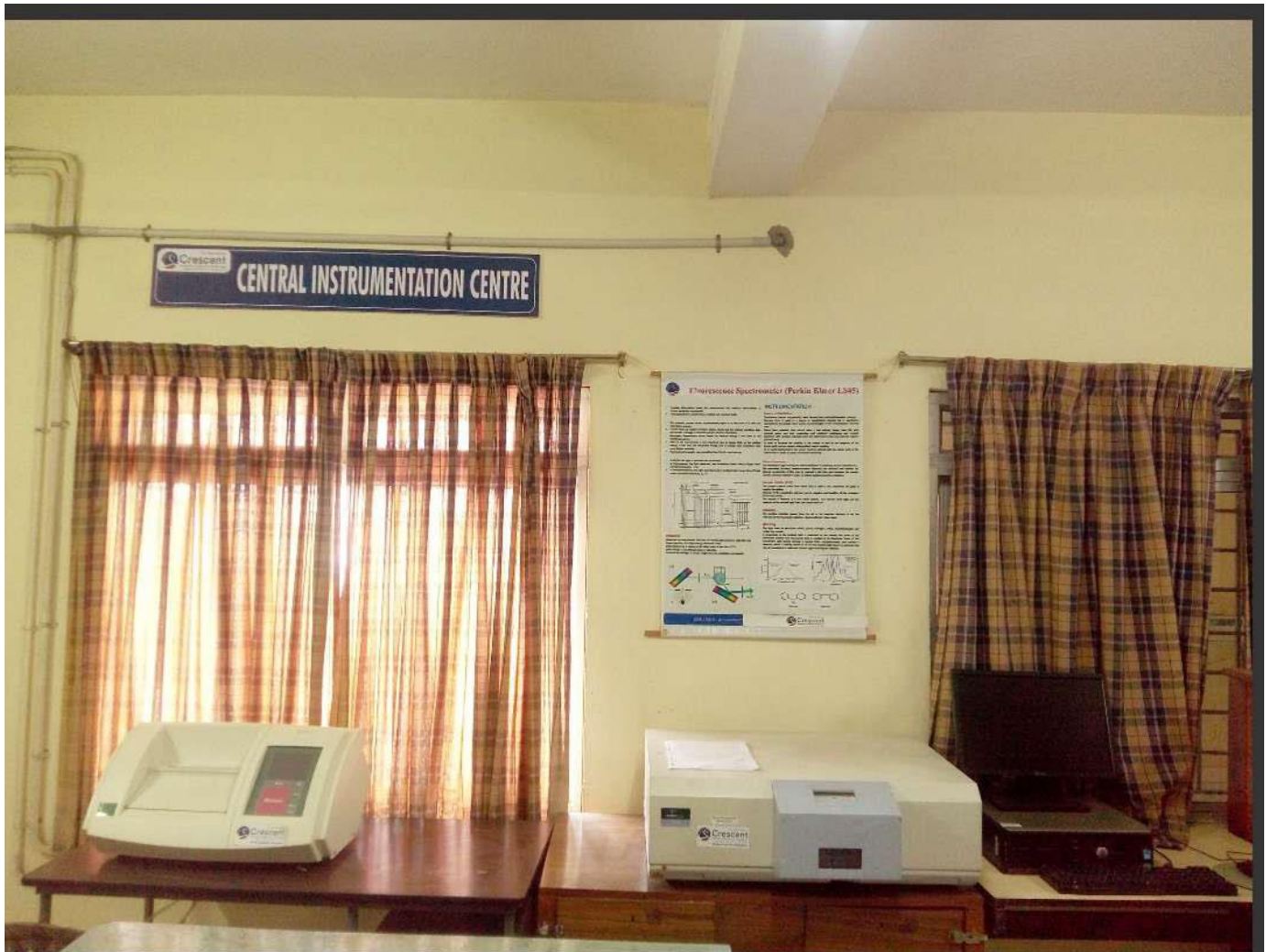


Crescent Engineering College, Peerakankaranai, Tamil Nadu 603210, India

Type	Degree	DMS
Latitude	12.8747175	12°52'29" N
Longitude	80.0838086	80°5'2" E

# 1. Central Instrumentation Centre

(1125 Sq. ft.)



Crescent Engineering College, Peerakankaranai, Tamil Nadu 603210, India

Type	Degree	DMS
Latitude	12.8748925	12°52'30" N
Longitude	80.0840352	80°5'3" E



Clear  
 26.0 °C  
 80.0 °F

# 1.1 Central Fabrication Facility

(1150 Sq. ft. + 2975 Sq. ft.)

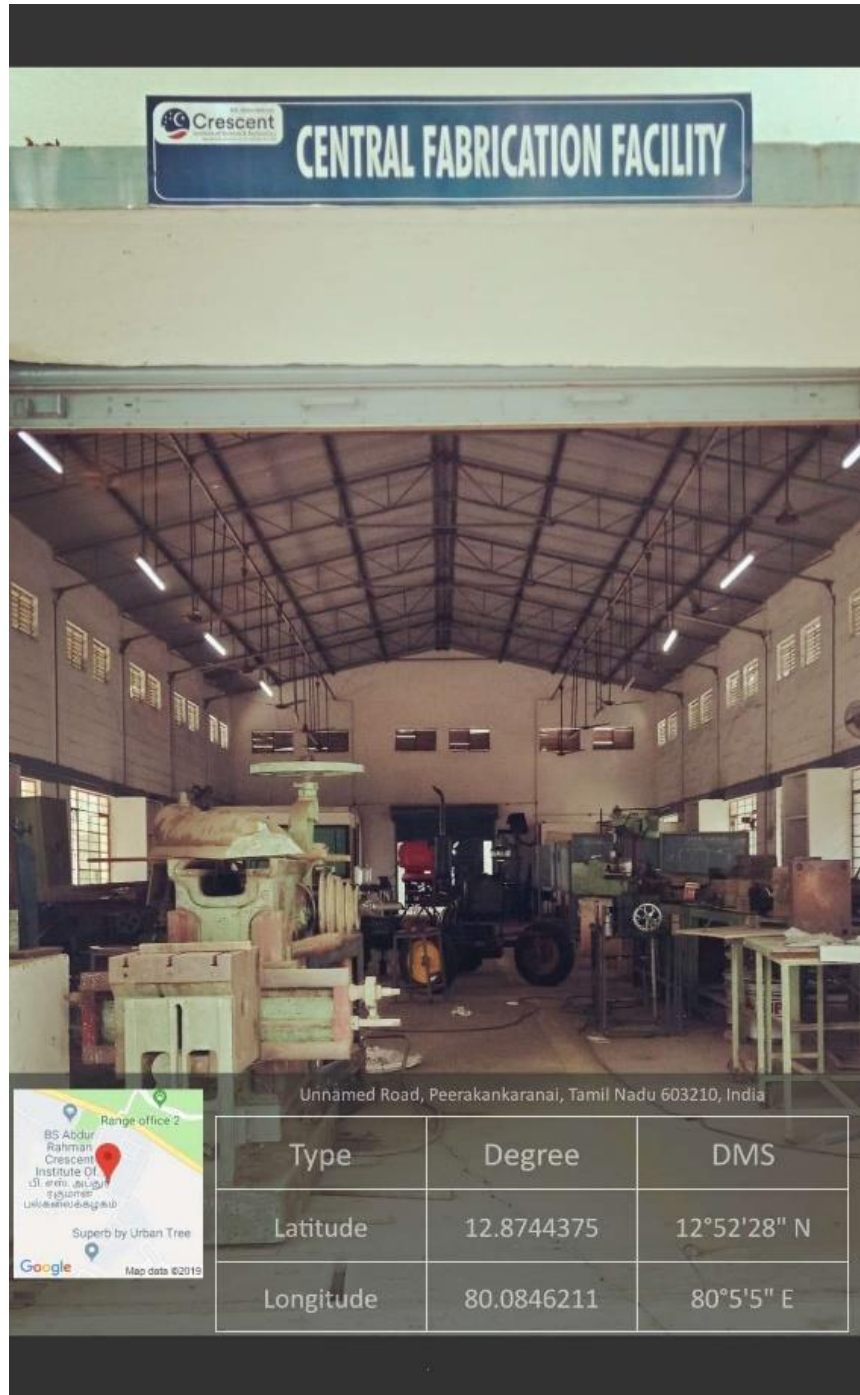
The central fabrication facility is equipped with bending machines, anvils, and welding machines to understand the principles and fabricate various engineering components.

<https://crescent.education/wp-content/uploads/2019/08/Central-Fabrication-Facility.pdf>

<https://crescent.education/university/schools/school-of-mechanical-science/department-of-mechanical-engineering/infrastructure/>

## The objective of the Studio

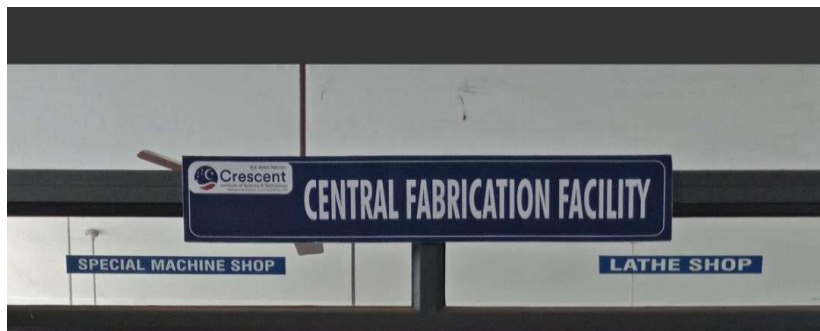
- To train the engineering students (UG /PG) and research scholars with advanced fabrication tools
- To make students and researchers understand the operational procedures of instrumental techniques.
- To extend the facility to external users as a part of consultancy and training.






# 1.1 Central Fabrication Facility

(1150 Sq. ft. + 2975 Sq. ft.)




Crescent Engineering College, Peerakankaranai, Tamil Nadu 603210, India



Type	Degree	DMS
Latitude	12.8752825	12°52'31" N
Longitude	80.0842461	80°5'3" E



Crescent Engineering College, Peerakankaranai, Tamil Nadu 603210, India



Type	Degree	DMS
Latitude	12.8752575	12°52'31" N
Longitude	80.0842461	80°5'3" E

# 2. Animal House / Green House

*(2106 Sq. ft. + 140 Sq. ft.)*

## 2. Animal House/Green House

(2106 Sq. ft. + 140 Sq. ft.)

As a part of Animal / Green House, our Institute has established the Centre for Research on Precision Agriculture and Rural Technologies.

Visit : <https://www.ciic.ventures/centre-for-research-on-precision-agriculture-and-rural-technologies/>

### Objective

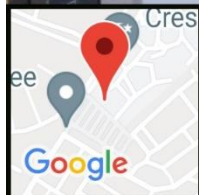
- To support Agri-Tech entrepreneurs to create awareness with incubation centres to develop rural areas.
- To provide the platform for innovations in agriculture.
- To incorporate the technologies into the rural areas
- To encourage people for starting up the pilot projects





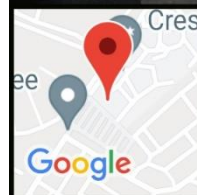
## 2. Animal House/Green House

(2106 Sq. ft. + 140 Sq. ft.)



Type	Degree	DMS
Latitude	12.8713786	12°52'17" N
Longitude	80.0843471	80°5'4" E

10 Feb 2022, 18:12 PM



Type	Degree	DMS
Latitude	12.871437	12°52'17" N
Longitude	80.0843728	80°5'4" E

10 Feb 2022, 18:11 PM



# 3. Museum

*(2640 Sq. ft. + 1088 Sq. ft.)*

# Museum

(2640 Sq. ft. + 1088 Sq. ft.)

The Museum was established as a repository of scientific and technological collections.

<https://crescent.education/wp-content/uploads/2019/08/Museum.pdf>

## The objective of the Museum

- To enrich the knowledge of students and researchers with various specimens related to science, engineering, and technology
- To demonstrate various scientific models to students and researchers and provide a basic understanding related to the subject



Unnamed Road, Peerakankaranai, Tamil Nadu 603210, India

Type	Degree	DMS
Latitude	12.8752275	12°52'31" N
Longitude	80.0848555	80°5'5" E



Clear  
26.0 °C  
80.0 °F

# Museum

(2640 Sq. ft. + 1088 Sq. ft.)



Unnamed Road, Peerakankaranai, Tamil Nadu 603210, India



Clear  
26.0 °C  
80.0 °F

Type	Degree	DMS
Latitude	12.8750659	12°52'30" N
Longitude	80.0847011	80°5'5" E



# 4. Media laboratory / Studios

*(750 Sq. ft. + 3053)*

# 4.1 Media laboratory

(750 Sq. ft. )

As a part of the Media laboratory facility, the Institute has established *the Centre for Innovation in Teaching and Learning (CITL)* in the year 2018, to enrich the students, faculty and entire education society with quality content via rich media. The Media laboratory facility was established to promote the digital learning process at BSACIST.

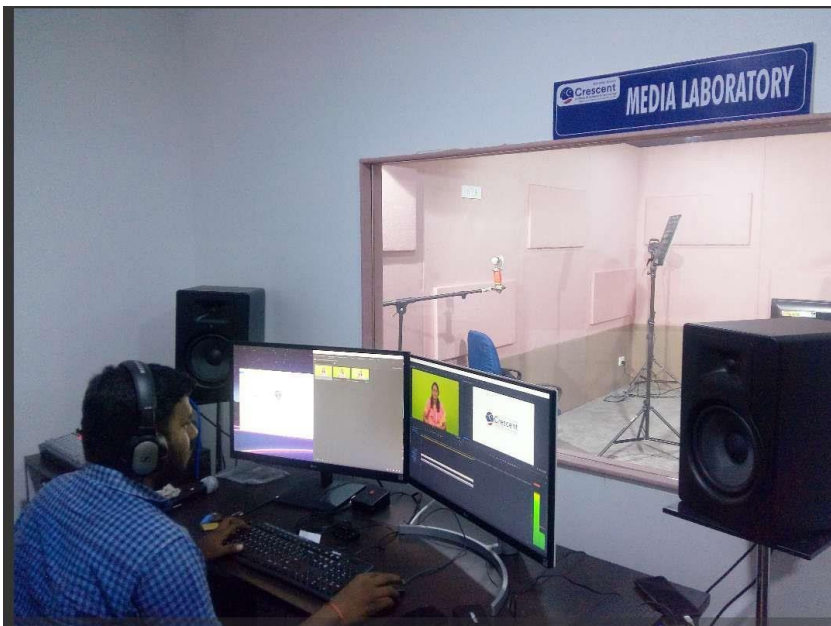
A glimpse of Media laboratory facility availability at BSACIST can be obtained from the following link:

<https://www.ciic.ventures/centre-for-innovation-in-teaching-and-learning-citl/>

The Centre for Innovation in Teaching and Learning (CITL) delivers Institution’s online courses. CITL provides professional development and consultative services for faculty and instructional staff. The centre supports the use of online educational technologies to create e-content. The key focus areas of the centre include staff development, course design & delivery using video production technology.

### Objectives

- To engage faculty in the creation and implementation of educational experiences and environments that are transformative, innovative, inclusive, and outcomes focused
- To provide support to faculty and students transitioning to online or blended instruction
- To execute consultancy projects of Industry and other organizations for training content and product videos

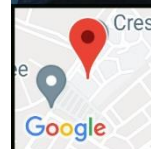
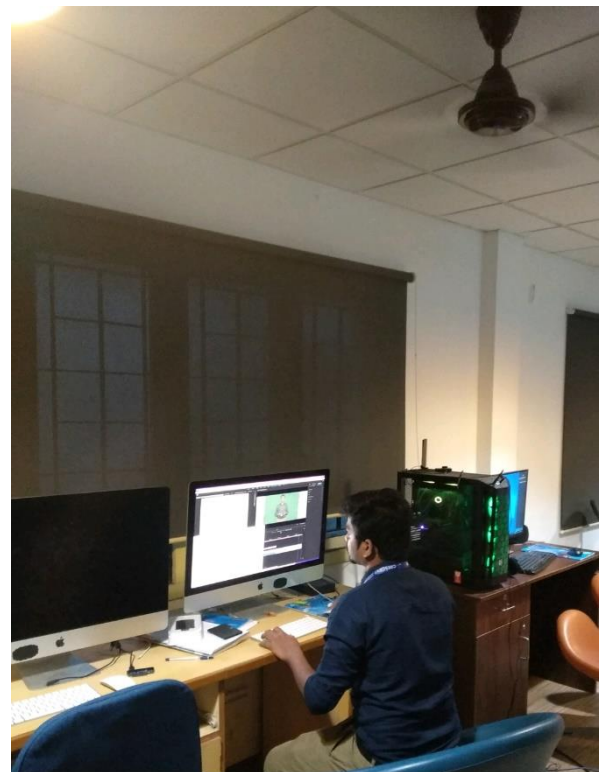


Unnamed Road, Peerakankaranai, Tamil Nadu 603210, India

Type	Degree	DMS
Latitude	12.873479	12°52'25" N
Longitude	80.0855466	80°5'8" E



Clear  
 26.0 °C  
 80.0 °F



Type	Degree	DMS
Latitude	12.871603	12°52'18" N
Longitude	80.0845232	80°5'4" E

10 Feb 2022, 18:22 PM

# 4.2 Studio

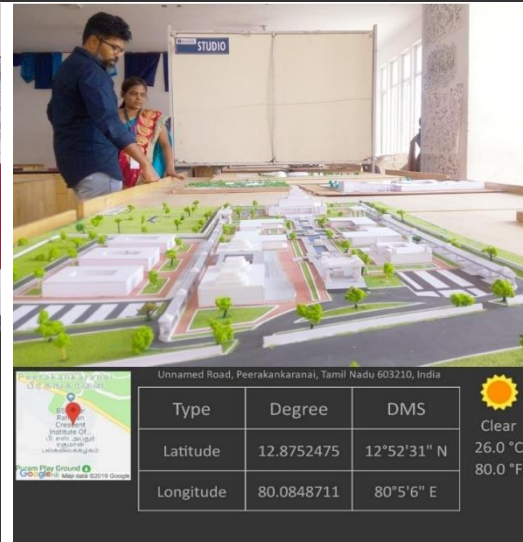
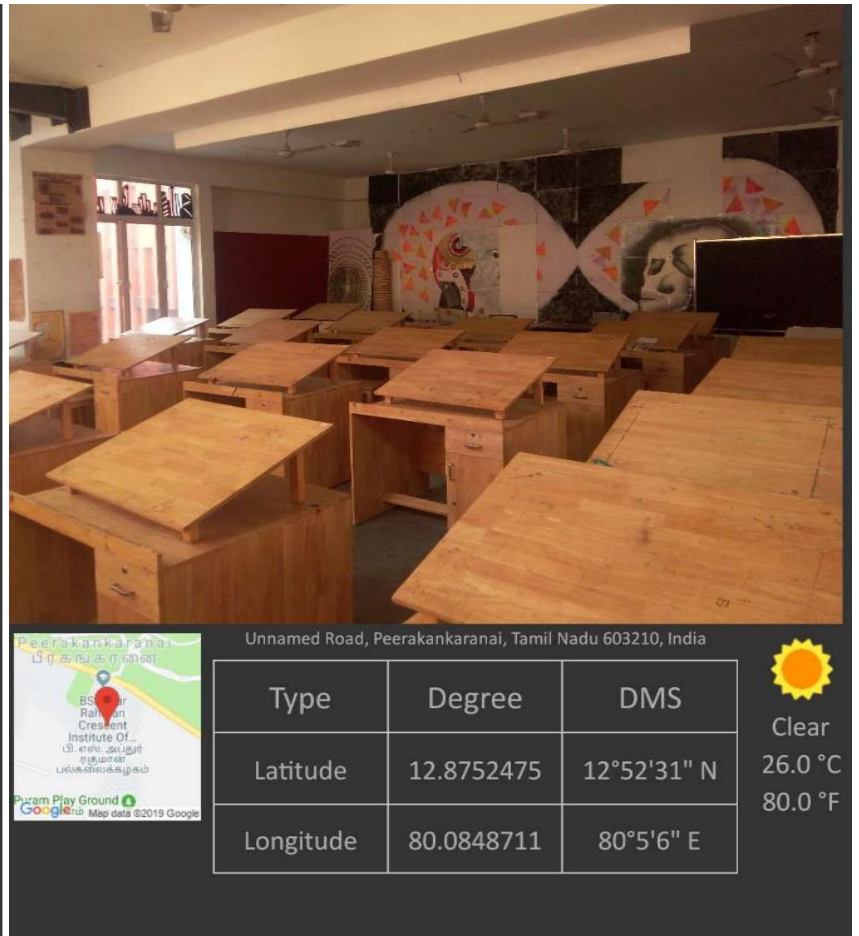
(3053 Sq. ft.)

The Institute has established Design Studios at Crescent School of Architecture.

## Objectives

- To make students understand contemporary processes and tools in architectural design
- To emphasize the students on the design projects where they learn to explore, investigate and apply various parameter of sustainability for design development of projected building/urban scenarios

In studio different functional types viz hospitality, institutional (relating to education & health) and commercial (shopping malls), recreational, (theatres, clubs etc) and public use complexes (airports, bus terminals, railways stations) will form the major design assignments to the students.





# 5. Business lab

*(1050 Sq. ft. )*

# 5 Business lab

(1050 Sq. ft. )

Business lab was established at Department of Management Studies.

## Objectives

- To enhance managerial and soft skill that augment the overall professional development.
- To engage students corporate connect, written analysis & communication, computers and business application ,and current affairs in business
- To provide functional specific knowledge through industry scenario study and analysis using multiple pedagogies
- To demonstrate multi faceted leadership skill in business scenario



Type	Degree	DMS
Latitude	12.8762196	12°52'34" N
Longitude	80.0847739	80°5'5" E

# 6. Research/Statistical Databases

*(651 Sq. ft. )*



# 6. Research/Statistical Databases

(651 Sq. ft. )

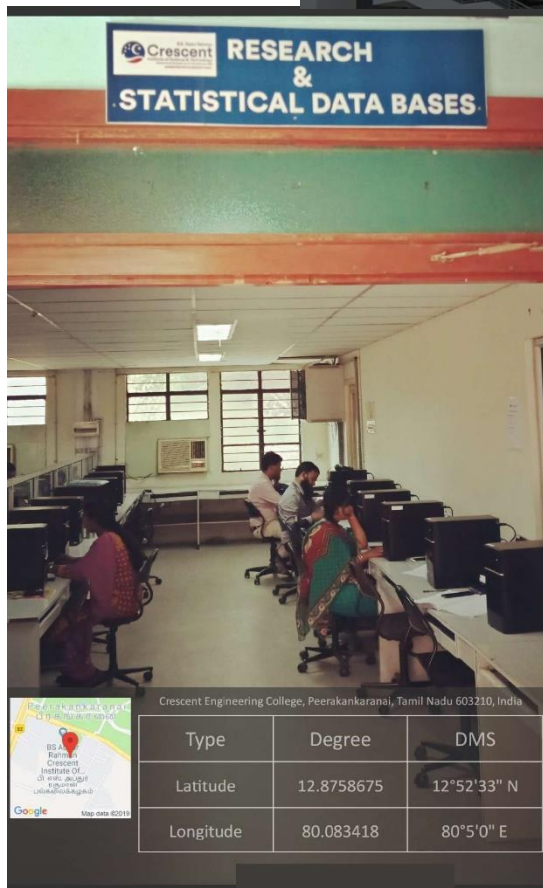
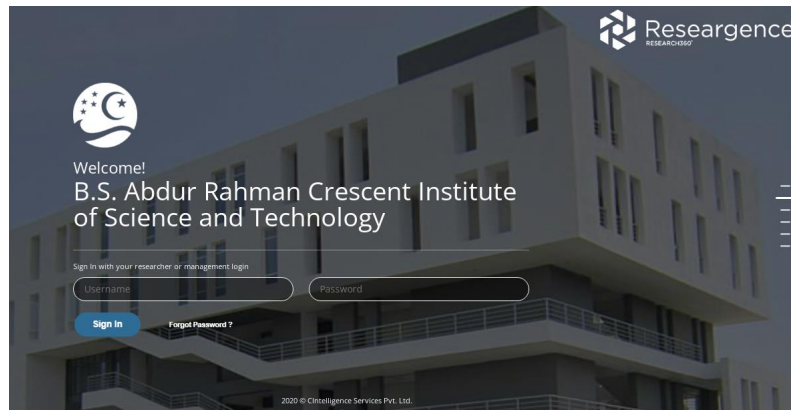
As a part of Research / Statistical Databases, our Institute has subscription to Researgence online databases.

Visit: <http://crescent.researgence.com/>

## Objectives

- To overview the year-wise research progress made by each Schools / Department / Faculty members of the Institute
- To obtain a monthly / yearly databases of research articles published in Scopus / WoS journals, books / book chapters and conference proceedings by the researchers of our Institute.
- To calculate the research parameters of the Institute such as: h-index, citations, impact factor and to plot a statistical research progress of our Institute

Visit statistical research progress : <https://crescent.education/research/about-us/about-us/>



Crescent Engineering College, Peerakankaranai, Tamil Nadu 603210, India

Type	Degree	DMS
Latitude	12.8756627	12°52'32" N
Longitude	80.0833486	80°5'0" E

Clear 26.0 °C 80.0 °F

17/03/21  
Dean (Research)

**CIntelligence Services**

23B, 19th Street, Astalakshmi Nagar,  
Alapakkam,  
Chennai, Tamilnadu 600116 IN  
GSTIN: 33AAFCC1444G1Z4



## Tax Invoice

**BILL TO**

**B. S. Abdur Rahman Crescent**  
**Institute Of Science And**  
**Technology**

Seethakathi Estate GST  
Road(Chennai-Trichy National  
Highway, NH45, Vandalur,  
Tamil Nadu 600048  
State Code: 33

**PLACE OF SUPPLY**

33 - Tamil Nadu

**INVOICE NO.** 1155

**DATE** 04/03/2021

**DUE DATE** 19/03/2021

**TERMS** Net 15

NO	ACTIVITY	TAX	AMOUNT
1	<b>Researgence Renewal</b> Annual Subscription for Renewal of Researgence 01-Jan-2021 to 31-Dec-2021		3,00,000.00

Cheque should be drawn in favor of 'CIntelligence Services Private Limited'.

Wire Transfer of funds should be done into the company account.

Bank Name: State Bank of India  
Account Name: CIntelligence Services Private Limited Account  
Number: 32817685536  
Branch: Maduravoyal, IFSC Code: SBIN0007066  
PAN/GST: AAFCC1444G / GST - 33AAFCC1444G1Z4

CGST @ 9% on 254237.29 22,881.35  
SGST @ 9% on 254237.29 22,881.36  
TOTAL 3,00,000.00

BALANCE DUE

**INR 3,00,000.00**

*[Signature]*  
Dean (Ac R)

# 7. Moot court

*(1369 Sq. ft. )*



# 7. MOOT COURT

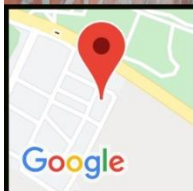
(1369 Sq. ft. )

The Institute has Moot Court established at Crescent School of Law.

Visit: <http://crescent.researgence.com/>

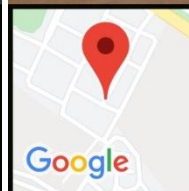
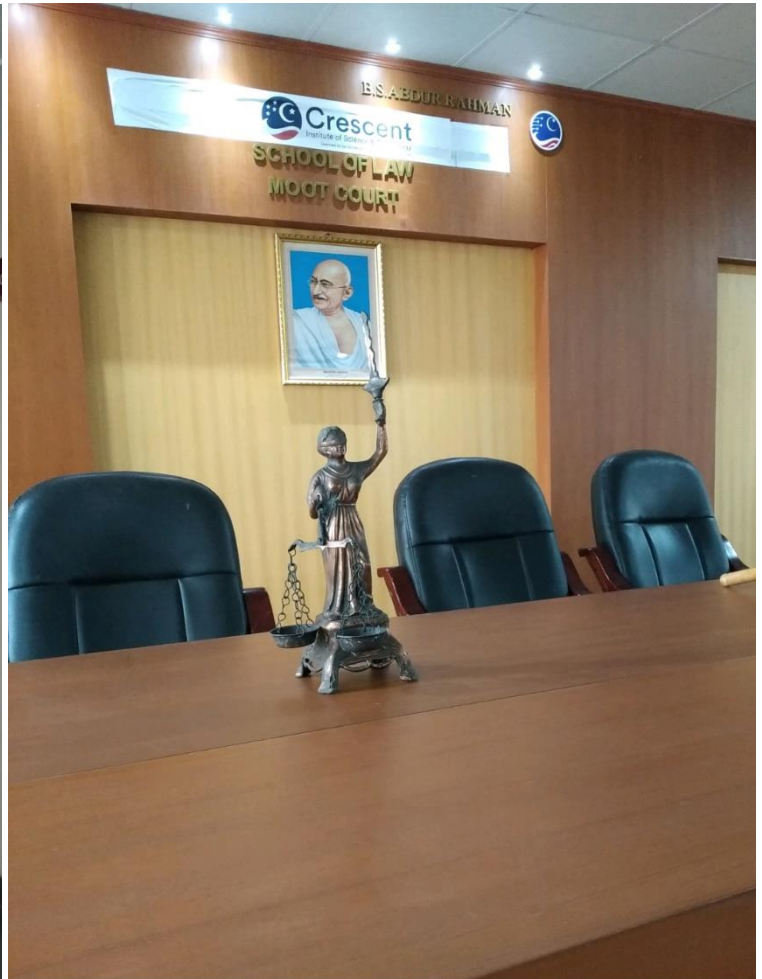
## Objectives

- To provide a strong foundation of social sciences to ensure comprehensive understanding of 'Law' as a unique discipline
- To demonstrate a strong understanding of law and its underlying principles with conceptual clarity.
- To develop interdisciplinary platforms of law and other social sciences to meet the demands of the Legal, Corporate and Business world
- To educate the students about the development of Jurisprudence
- To provide an exercise to the students related to court practices
- To provide practical sessions and mock trials to students



Type	Degree	DMS
Latitude	12.8758104	12°52'33" N
Longitude	80.0861238	80°5'10" E

11 Feb 2022, 13:56 PM



Type	Degree	DMS
Latitude	12.874578	12°52'28" N
Longitude	80.0852907	80°5'7" E

11 Feb 2022, 14:04 PM



# 7. MOOT COURT

(1369 Sq. ft. )



Type	Degree	DMS
Latitude	12.874578	12°52'28" N
Longitude	80.0852907	80°5'7" E

# 8. Art Gallery

*(840 Sq. ft. )*

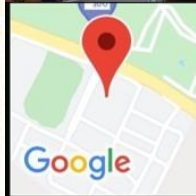
# 8. Art Gallery

The Institute has Art Gallery

(840 Sq. ft. )

## Objectives

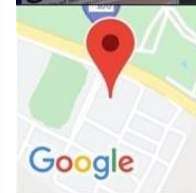
- To display the history of the Institute highlighting the contribution laid by the founder
- To publicize the list of programmes offered by the Institute



Type	Degree	DMS
Latitude	12.8766947	12°52'36" N
Longitude	80.0847689	80°5'5" E



Type	Degree	DMS
Latitude	12.8766947	12°52'36" N
Longitude	80.0847689	80°5'5" E







Type	Degree	DMS
Latitude	12.8766947	12°52'36" N
Longitude	80.0847689	80°5'5" E

# 9. Other Facilities



# Major Research Facilities

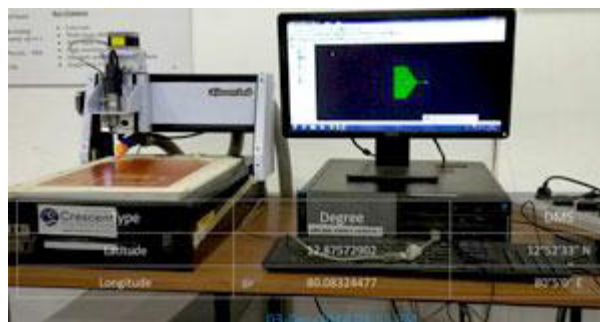
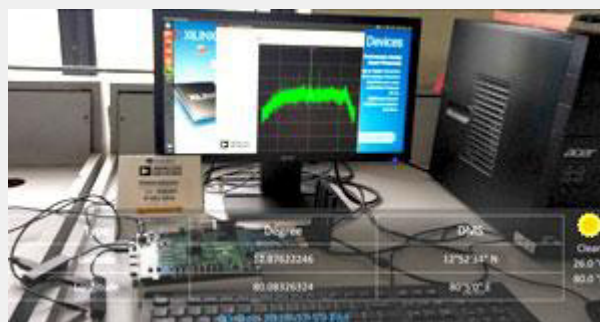
## Instrumentation Available For Research

S.No.	Name of the Equipment										
1.	Atomic Absorption Spectrophotometer	 <table border="1"> <thead> <tr> <th>Type</th> <th>Degree</th> <th>DMS</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>12.8750217</td> <td>12°52'29" N</td> </tr> <tr> <td>Longitude</td> <td>80.0851227</td> <td>80°5'5" E</td> </tr> </tbody> </table>	Type	Degree	DMS	Latitude	12.8750217	12°52'29" N	Longitude	80.0851227	80°5'5" E
Type	Degree		DMS								
Latitude	12.8750217		12°52'29" N								
Longitude	80.0851227	80°5'5" E									
2.	Microprocessor controlled UTM. of 100T capacity										
3.	Photo Elastic Test setup										
4.	Advanced Tri-axial shear strength test equipment with pore pressure measuring unit	 <table border="1"> <thead> <tr> <th>Type</th> <th>Degree</th> <th>DMS</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>12.87501343</td> <td>12°52'30" N</td> </tr> <tr> <td>Longitude</td> <td>80.08512279</td> <td>80°5'5" E</td> </tr> </tbody> </table>	Type	Degree	DMS	Latitude	12.87501343	12°52'30" N	Longitude	80.08512279	80°5'5" E
Type	Degree		DMS								
Latitude	12.87501343		12°52'30" N								
Longitude	80.08512279	80°5'5" E									
5.	CNC Turning Center and Vertical Machining Center for machining experiments										
6.	Load cells & strain gauge indicators, Vibration sensor, Acoustic Emission sensor and vibration shaker										
7.	Versamax PLC for automation with software	 <table border="1"> <thead> <tr> <th>Type</th> <th>Degree</th> <th>DMS</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>12.87501343</td> <td>12°52'30" N</td> </tr> <tr> <td>Longitude</td> <td>80.08512279</td> <td>80°5'5" E</td> </tr> </tbody> </table>	Type	Degree	DMS	Latitude	12.87501343	12°52'30" N	Longitude	80.08512279	80°5'5" E
Type	Degree		DMS								
Latitude	12.87501343		12°52'30" N								
Longitude	80.08512279	80°5'5" E									
8.	Data Acquisition System and Exhaust Gas Analyzer for engine testing										
9.	High speed digital storage oscilloscope with GPIB interface for data acquisition										
10.	Image analyzer with CCD camera for microstructure analysis, Tool makers microscope and Coordinate measuring machine surface roughness tester	 <table border="1"> <thead> <tr> <th>Type</th> <th>Degree</th> <th>DMS</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>12.874025</td> <td>12°52'29" N</td> </tr> <tr> <td>Longitude</td> <td>80.0846711</td> <td>80°5'5" E</td> </tr> </tbody> </table>	Type	Degree	DMS	Latitude	12.874025	12°52'29" N	Longitude	80.0846711	80°5'5" E
Type	Degree		DMS								
Latitude	12.874025		12°52'29" N								
Longitude	80.0846711	80°5'5" E									
11.	Low speed wind tunnel										
12.	Swirl injector Test rig										

13.	Rocket Fuel sampling and Firing setup
14.	Drones and UAV modelling
15.	Three Tank Interacting Level Process with Closed loop Control Setup
16.	pH neutralization setup
17.	Multi process trainer
18.	PLC, Drilling operation using PLC
19.	Electroporator
20.	Harmonic Analyzer
21.	Design and Analysis of 3-phase inverter drives
22.	Power Electronics and Drives. – Modeling, Analysis, Simulation and Prototype of Power Electronic Devices, Electrical Machines and Drives
23.	Fibre optic trainer
24.	Antenna trainer with software
25.	IAR Embedded work bench
26.	XRD (Bruker – D8 Focus)



27.	Dynamic Mechanical Analyzer (DMA)
28.	Thermo Gravimetric Analyzer (TGA) – SEIKO model
29.	Electrospinning unit (ESPIN)
30.	Ultra Cryostat circulator
31.	FTIR
32.	Q switched High Energy Nd :YAG (850 mJ) LASER
33.	EPM 2000 Dual channel power/Energy meter, OSM2 Series Spectrometer
34.	Multi-frequency Ultrasonic Interferometer Research type (1 – 2 MHz)
35.	Fluorescence Spectrophotometer
36.	P – E Loop Tracer
37.	Pulsed Laser Deposition Unit (PLD)
38.	High temperature furnace – 1400° C
39.	Spray Pyrolysis unit





40.	LCR meter
41.	Polarimeter
42.	Diode array Spectrophptometer
43.	Photoreactor
44.	UV – Vis – NIR Spectrophotometer
45.	Beam Load Frame of 100T capacity for testing beams up to 3m span.
46.	Column Load Frame of 100T capacity for testing columns up to 2m height with provisions for axial and lateral loadings.
47.	Pin on disc set up, salt spray apparatus and semi micro balance for wear and corrosion testing
48.	Flow Table motorized for concrete
49.	Trimble focus total station with accessories
50.	GPS Q mini serial





# **Sample proof for purchased / installed software**

TAX INVOICE

(ORIGINAL FOR RECIPIENT)

<b>SPSS SOUTH ASIA PVT. LTD.,</b> # 2353/1-4, "Dolphin", 4th Floor Hennur Main Road Kacharakannahalli Bangalore-560043 CIN U72200KA1999PTC025869 GSTIN/UIN: 29AADCS8134M1ZT State Name : Karnataka, Code : 29 E-Mail : spssfinance@vsnl.net	Invoice No.	Dated
	SPSS/113/2018-19	16-Oct-2018
Buyer <b>The Registrar</b> <b>BSA Crescent Institute of Science &amp; Technology</b> GST Main Road, Vandalur CHENNAI - 600 048 Tel: 044 - 2275 9236 GSTIN/UIN : 33AABTB5026G1Z8 State Name : Tamil Nadu, Code : 33 Place of Supply : Tamil Nadu	Supplier's Ref.	Other Reference(s)
	Buyer's Order No.	Dated
	Proceedings No/1935/A5/2018-19	8-Oct-2018

Sl No.	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	<b>IBM SPSS STATISTICS BASE - 25.0</b> Ten Users	997331	10 nos	10,200.40	nos	1,02,004.00
2	<b>IBM SPSS FORECASTING</b> Ten Users	997331	10 nos	5,494.30	nos	54,943.00
3	<b>IBM SPSS REGRESSION</b> Ten Users	997331	10 nos	5,664.50	nos	56,645.00
						2,13,592.00
					18 %	38,446.56
Less :						(- )0.56
<b>Output - IGST - 18% Round-Off</b>						
<b>Total</b>						<b>30 nos</b>
						<b>2,52,038.00</b>

Amount Chargeable (in words) E. & O.E

**Rupees Two Lakh Fifty Two Thousand Thirty Eight Only**

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
997331	2,13,592.00	18%	38,446.56	38,446.56
<b>Total</b>			<b>38,446.56</b>	<b>38,446.56</b>

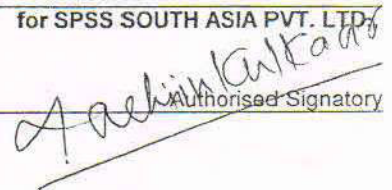
Tax Amount (in words) : **Rupees Thirty Eight Thousand Four Hundred Forty Six and Fifty Six paise Only**


**Remarks:**  
 Please download the software from our website [www.download.spss.co.in](http://www.download.spss.co.in) Manuals are integrated in electronic help system within SPSS Software.

Company's PAN : **AADCS8134M**

**Declaration**  
 We declare that this invoice shows the actual price of the services described and that all particulars are true and correct.

**Company's Bank Details**  
 Bank Name : **ICICI Bank Ltd., B'lore**  
 A/c No. : **000205001818**  
 Branch & IFS Code : **Commissariat Road & ICIC0000002**

for SPSS SOUTH ASIA PVT. LTD.  
  
 Authorised Signatory

 B.S. ABDUR  
RAHMAN  
UNIVERSITY Mail

HOD Management Studies <hodms@crescent.education>

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## SPSS New v28.0 Quotation

1 message

---

**Mohamed Afzal-SPSS** <[afzal@spss.co.in](mailto:afzal@spss.co.in)>

4 October 2021 at 13:50

To: hodms@crescent.education

Cc: [monisha@spss.co.in](mailto:monisha@spss.co.in)

Dear Dr. Shanmugam Munuswamy,

Greetings from **SPSS..**

Kindly find the attached SPSS v28.0 upgrade quotation & brochure.

If you have any quires, please feel to contact us.

Thanks & Regards,

Mohammed Afzal T.A  
SPSS South Asia - Bangalore  
Bangalore -560043  
08848066521

[afzal@spss.co.in](mailto:afzal@spss.co.in)

---

### 4 attachments

**SPSS Statistics 28.0.pdf**  
937K

**SPSS Statistics 28.0 Module Specification.pdf**  
297K

**SPSS AMOS 28.0.pdf**  
204K

**337\_10\_2021-22\_FST\_Afzal\_B.S. Abdur Rahman Institute of Science and  
Technology\_Chennai.pdf**  
914K

## Invoice

Bill To <b>B S ABDUR RAHMAN UNIVERSITY</b> B S Abdur Rahman Institute of Science & Technology Vandalur, Chennai - 600 048	Invoice No. CUP/2014-15/252	Dated 31-Dec-2014
	Purchase Order No. 1346	Purchase Order Date 19-Dec-2014
	Delivery Note. NA	Mode/Terms of Payment 50% against delivery
Ship To <b>B S ABDUR RAHMAN UNIVERSITY</b> B S Abdur Rahman Institute of Science & Technology Vandalur, Chennai - 600 048	Shipped Date	Buyers TIN NA
	Price Basis Purchase Order	Remarks

#	Particulars	Quantity	Rate	Amount
1	<b>Ansys Academic Multiphysics Campus Solution</b> 10 Research/100 Teaching Bundle (As per Annexure)			3,309,011 00

Service Tax @ 12.36% 408,994 00  
CST @ 5.5% 181,995 00

Total Amount. INR 3,900,000 00

Amount in Words: INR Thirty Nine Lakh Only

Remittance Details

Beneficiary M/s CoreEL Technologies (India ) Pvt Ltd  
Bank Account No 0947000104207601  
Name of Bank & Address Karnataka Bank Ltd  
Koramangala Extension Branch, Bangalore 560034  
NEFT/IFSC Code of Bank KARB0000094  
MICR Code of Bank 560052014  
Contact telephone/Mobile No 080-41970400  
E-mail ID, if any accounts@coreel.com

K S T No 90207907  
C S T No 90257900  
VAT TIN 29600080386  
Service Tax AABCC1915EST001  
PAN No AABCC1915E  
CIN U72200KA1999PTC033050

CoreEL Technologies (India) Pvt Ltd  
Bangalore  
560 034  
Authorised Signatory





### List of Licensed Softwares for research

S.No.	Name of the Software
1	Qualnet
2	Adobe enterprise
3	IBM DB2, IBM Cognos Insight
4	MATLAB 2012
5	UBUNTU, NS2, HADOOP, PYTHON
6	MOLDEX
7	VLSI- MODELSIM
8	MATHCAD
9	IE3D Antenna simulation software
10	MDSPICE MIC Simulation
11	Mentor Graphics HEP1 pack
12	SCADA software
13	ANSYS V 18.1 – CFD and Structural stimulation
14	Sinfire X4200 server for CAD APPLICATIONS
15	GIS – Mapping software
16	SPSS Software developed by IBM for data management