



P.S.R ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Sevalpatti (P.O), Sivakasi – 626140.

Tamilnadu State



CENTRAL INSTRUMENTATION CENTER

Each and every department has their required instruments for conducting practical's, projects and Research. However, a Central Instrumentation Center (CIC) has been established in the year 2018 in order to avail the instruments which are not available in any other departments.

The CIC of P.S.R Engineering College has the following objectives,

- To strengthen technological infrastructure to carry out advanced research in various engineering disciplines under one roof and make their services available to academic departments.
- To provide guidance in acquisition of data and train personnel in operation and maintenance of Sophisticated Instruments.
- To organize short-term courses/workshops on the use and application of analytical techniques for faculty members, research scholars and students from the institutions within the region.







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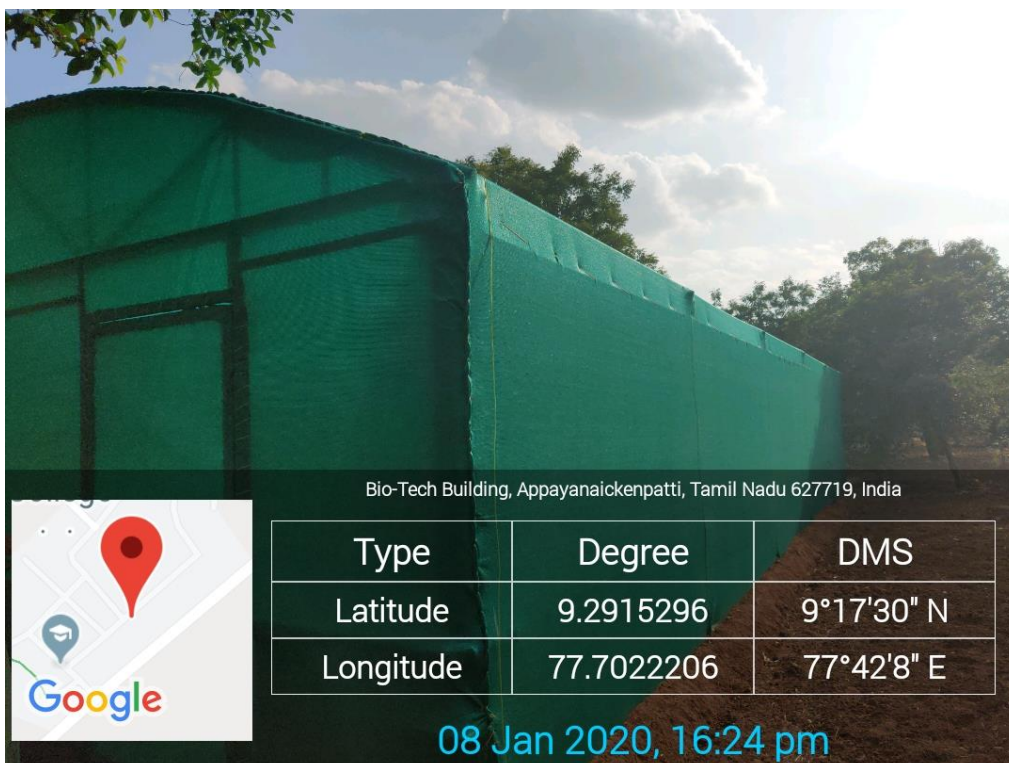
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GREENHOUSE

Greenhouse, also called **glasshouse**, building designed for the protection of tender or out-of-season plants against excessive cold or heat and also from insect pests. The modern greenhouse in our campus usually a plastic (HDPE)-enclosed framed structure with 1000 square feet is used for the production and protection of endangered, medicinal plants and any other plants that require special conditions of temperature.

Traditional medicine has a long history of serving people all over the world. The use of natural products with therapeutic properties is as ancient as human civilization and for a long time, mineral, plant and animal products were the main source of drugs. There is an evidence of herbs being used in the treatment of diseases and for revitalizing body systems in almost all ancient civilizations. Since time-immemorial plants are being used in all cultures as a source of medicine. Therefore, there is a need to conserve and protect the plants by this type of culture.





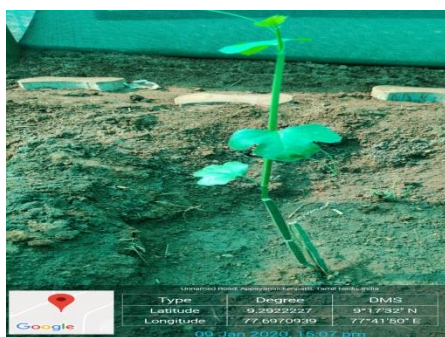
Important Plant species in our Greenhouse



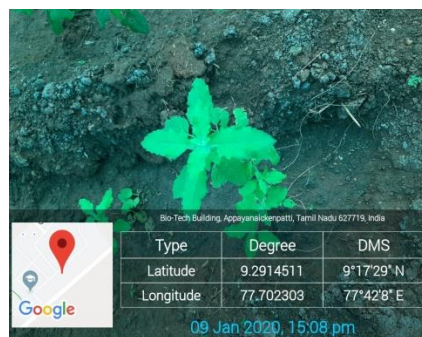
Andrographis paniculata



Chamaecostus cuspidatus



Cissus quadrangularis



Ocimum sanctum



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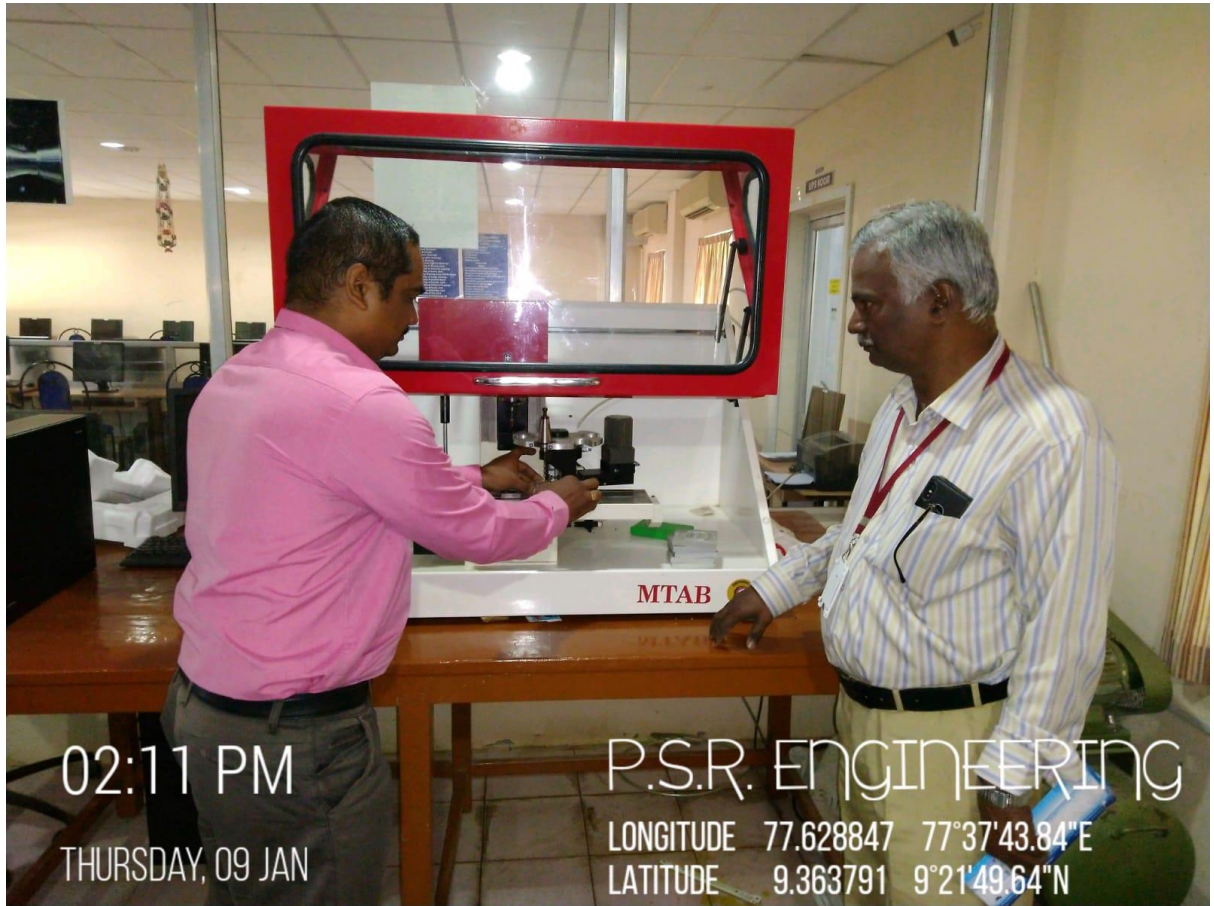
CENTRAL FABRICATION LABORATORY

Each and every department has their required instruments for conducting practical's, projects and Research. However, a Central Fabrication Laboratory (CFL) has been established in the year 2018 in order to avail the instruments which are not available in any other departments.

The CFL of P.S.R Engineering College has the following objectives,

- To strengthen technological infrastructure to carry out advanced research in various engineering disciplines under one roof and make their services available to academic departments.
- To train personnel in operation maintenance of sophisticated instruments.
- To enable students to fabricate their project work undergo further research.
- To organize short-term courses/workshops on the use and application of the available instruments for faculty members, research scholars and students from the institutions within the region.

A3-D Printing Machine, CNC Milling & Turning machine are enclosed in an air-conditioned room and a gas welding machine, power hacksaw are present in the above laboratory. Students can access the above machines throughout the day for their fabrication work with the help of a technician. The 3-D Printing, CNC Milling & turning machines widely support to avail industrial projects and in turn this specialized Central Fabrication Laboratory helps to expand the students' knowledge in their specific research fields. Each and every work place has been adequately spaced. Moreover there is a sitting area for the students to facilitate their work plan. A discussion room is also provided with a net facilitated computer system to assist the students and staff guiding them to look for more information.







Central Fabrication Laboratory is established in Mechanical Engineering Department. The Total Area of this lab is 267.55 Square Meter (29.26mts x 9.144mts). This Laboratory has

- (1) 3D printing Machine lab (Size 3.158 mts x 4.878 mts = 15.404 Square Meter)
- (2) CNC Machine Lab (Size 6.705mts x 4.878 mts = 32.706 Square Meter)
- (3) Board Room (Size 3.158 mts x 4.878 mts = 15.404 Square Meter)
- (4) Tool Room (Size 2.434 mts x 3.048 mts = 7.419 Square Meter) And Remaining Area is Work space.

This laboratory has well equipped Power tools and Basic Tools, electric arc welding and gas welding machine. 300mm x300 mm x 298mm size Flash Forge 3D Printing Machine available. All Branch Students are utilised this machine for their project works and establish their creative ideas.



Overall view of the Lab



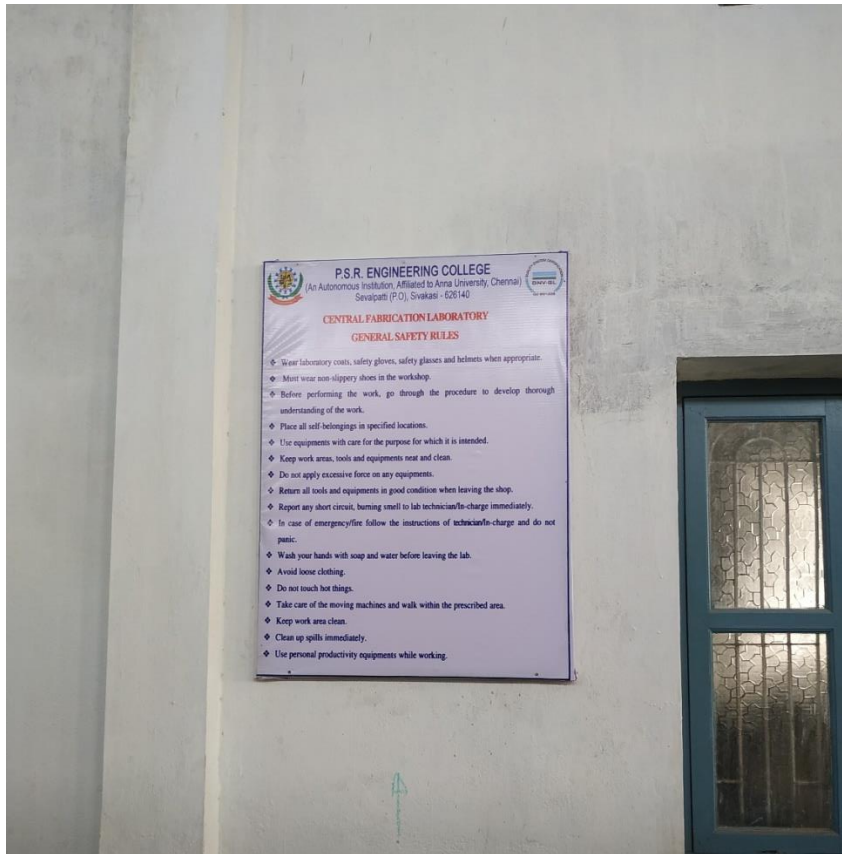
300mm x300 mm x 298mm size Flash Forge 3D Printing Machine available



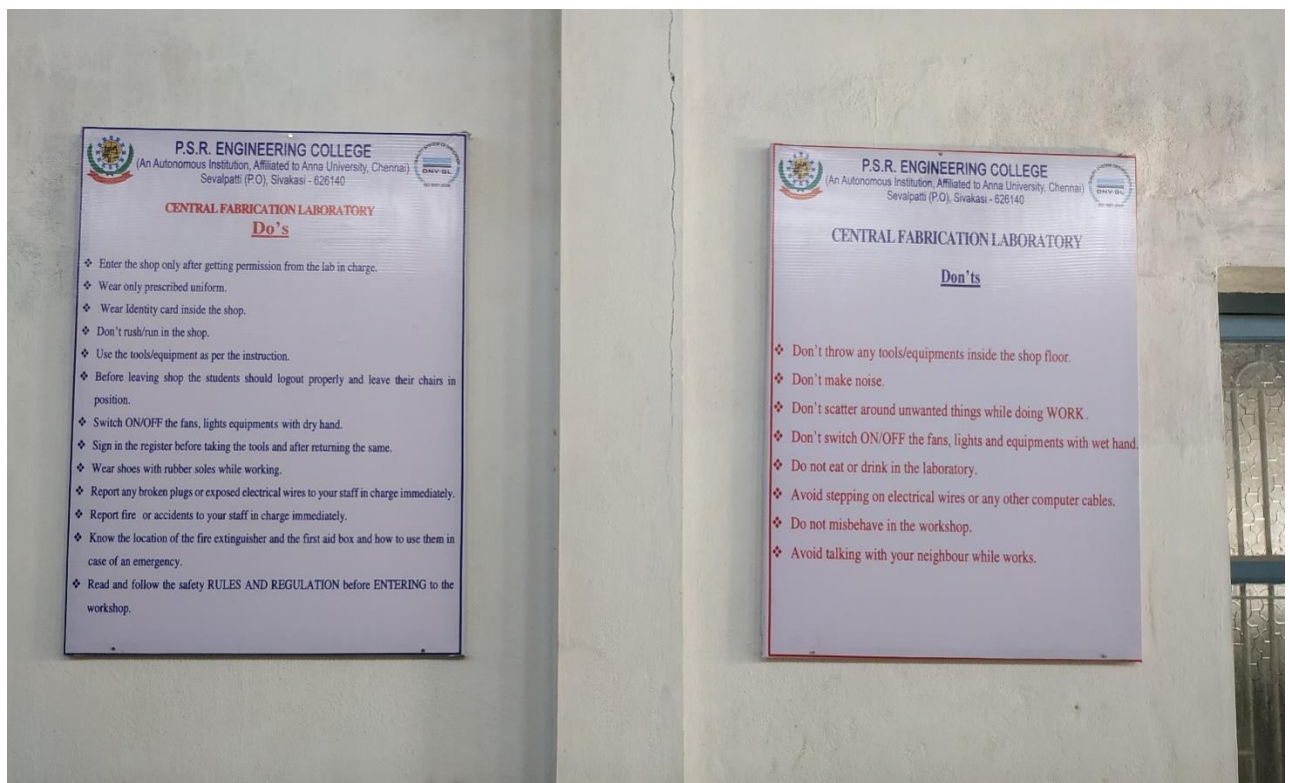
CNC Lathe machine in CNC Lab cabin



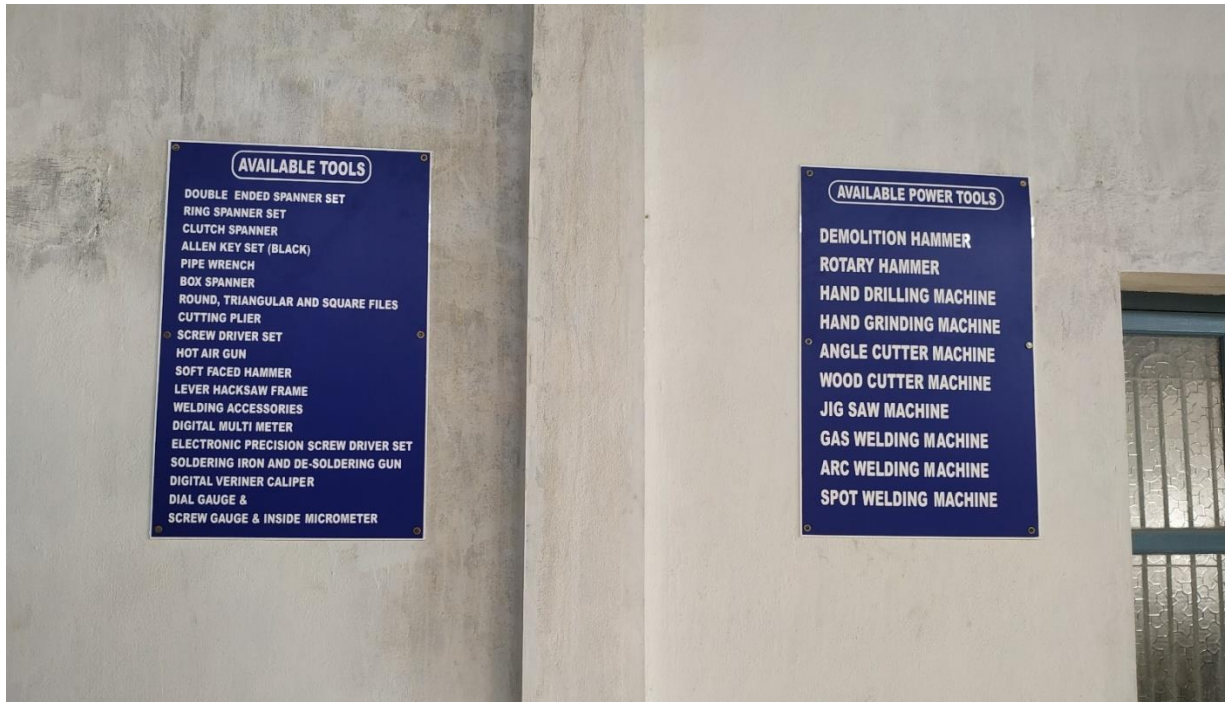
CNC MILLING Machine



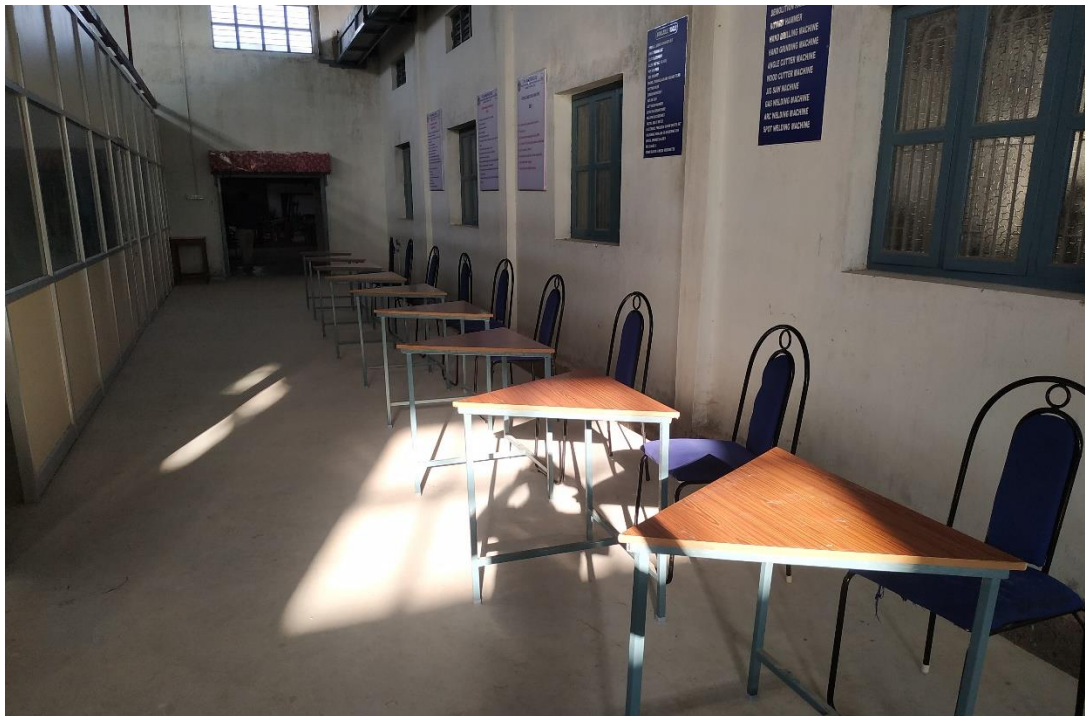
Safety Rules in Central Fabrication Lab



DO's and DON'Ts Display board inside the Central Fabrication Lab.



Available Basic Tools and Power in Central Fabrication Lab.



Student's Utilisation and Discussion Area



Board Room- Students Has To Present Their Ideas To Experts. Board Room (Size 3.158 mts x 4.878 mts = 15.404 Squire Meter)



Multipurpose Working Table. Table size 0.762mts side equilateral Triangle Top and 0.762mts Height.



Multipurpose Working Table. Table size 0.762mts side equilateral Triangle Top and 0.762mts Height.



Multipurpose Working Table. Table size 0.762mts side equilateral Triangle Top and .762mts Height



Oxy acetylene Gas welding Machine This Machine has the facility to Weld and cutting the plates.



Tools available in this Lab: Double Ended Spanner Set, Ring Spanner Set, Clutch Spanner, Allen key set (Black), Pipe Wrenge, Box Spanner, Round, Triangular and Square files, Cutting Plier, Screw Driver Set, HOT air gun, Soft faced hammer, Lever Hacksaw frame, Welding accessories ,Digital Multi Meter, Electronic Precision Screw Driver Set, Soldering Iron and De-Soldering gun.



Board Room (Size 3.158 mts x 4.878 mts = 15.404 Squre Meter)



CNC Machine Lab (Size 6.705mts x 4.878 mts = 32.706 Squre Meter)



Students enroll their name in the entry register



Student's Utilisation and Discussion Area



Student's Utilisation and Discussion Area



Tools available in this Lab: Double Ended Spanner Set, Ring Spanner Set, Clutch Spanner, Allen key set (Black), Pipe Wrenge, Box Spanner, Round, Triangular and Square files, Cutting Plier, Screw Driver Set, HOT air gun, Soft faced hammer, Lever Hacksaw frame, Welding accessories ,Digital Multi Meter, Electronic Precision Screw Driver Set, Soldering Iron and De-Soldering gun.



Student's Working and Discussion Area



Students are measured the dimensions of their finished Jobs using Digital Vernier caliper
Dial Gauge, Screw Gauge and Inside Micrometer and Measuring Scale.



Working Area.



Setting Pressure of the Oxygen and Acetylene cylinder to cut the plate by Gas welding Machine



The Faculty and Technician are teaching the student about arc welding in arc Welding Machine



Students are discussed with faculty about their ideas.



Students are discussed with faculty about their ideas. Board Room (Size 3.158 mts x 4.878 mts = 15.404 Squire Meter)



Students are discussed with faculty about their ideas. Board Room (Size 3.158 mts x 4.878 mts = 15.404 Squire Meter)



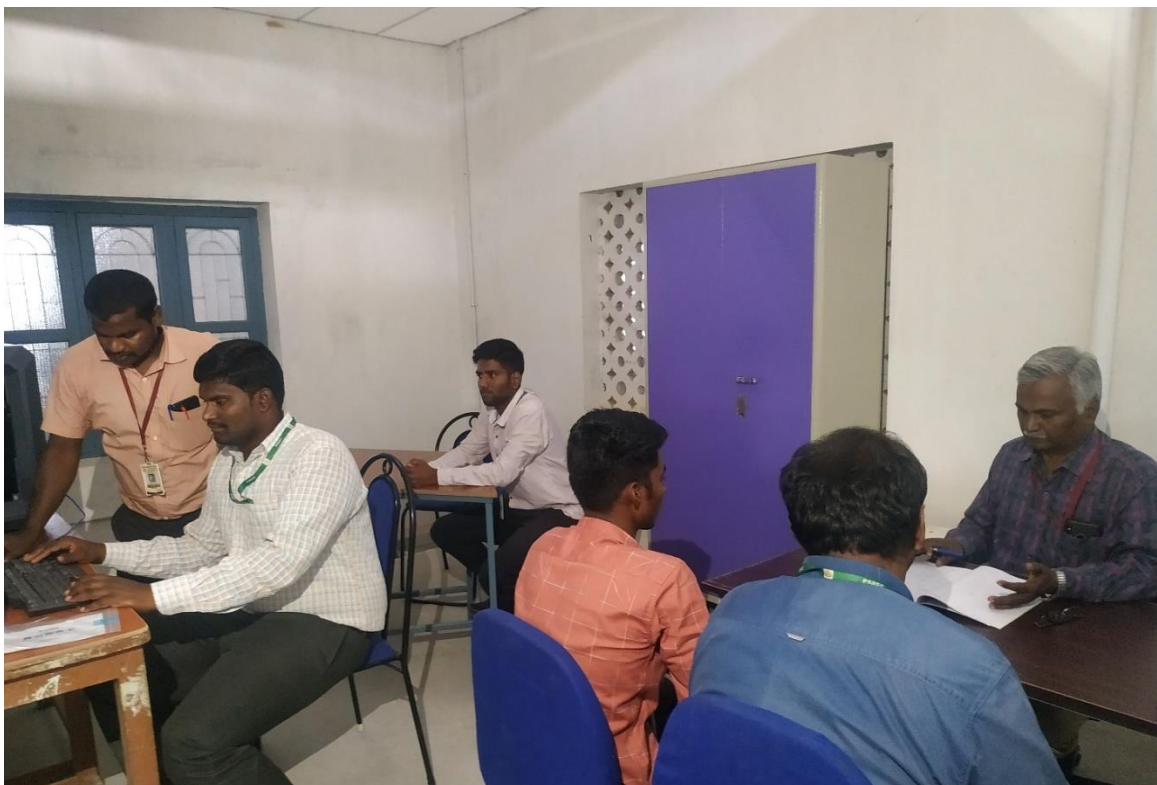
Faculties are explained the process of CNE Milling and CNS lathe to the Students.



Faculties are explained the process of CNS lathe to the Students



Faculties are explained the process of CNE Milling to the Students



Students are discussed to the faculty about their Design with 3D printing Machine



Students are discussed to the faculty about their Design with 3D printing Machine



3D printing Machine lab (Size 3.158 mts x 4.878 mts = 15.404 Squire Meter)



Students are discussed with Faculty about their model to print in the 3D printing Machine



Students are discussed with Faculty about their model to print in the 3D printing Machine



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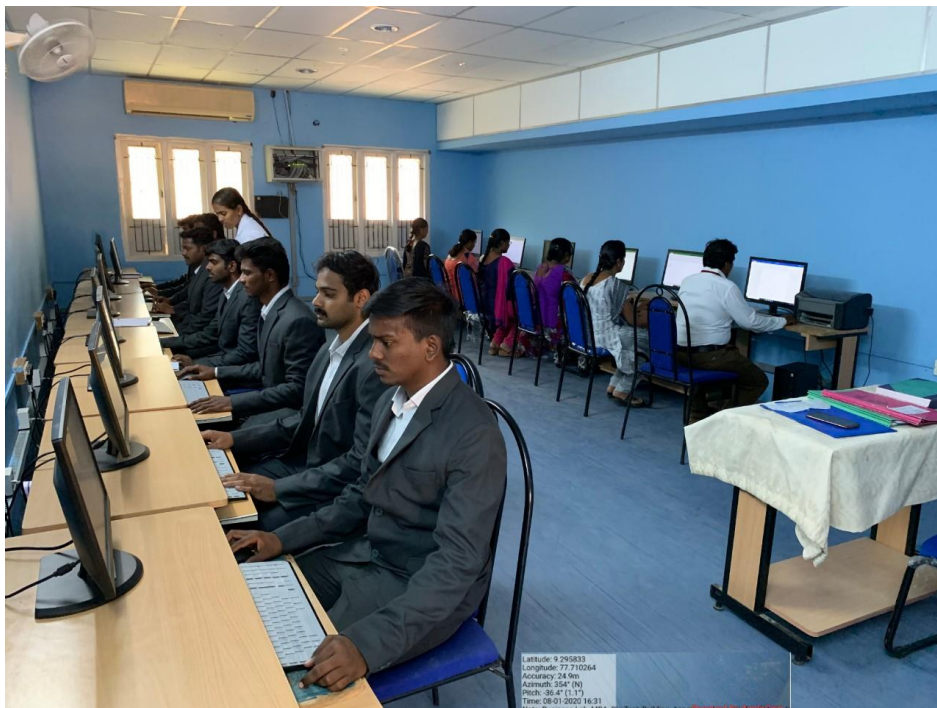
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BUSINESS LAB

A dedicated Business lab has been initiated in premises of Department of Management Studies for the benefit of staff and students to develop global competency and keep them updated with recent practices in the business world. This Lab provides practical exposure of the processes and procedures followed by organizations in conducting commercial practices. The lab provides practical orientation to students by linking the subject syllabi with practical training in the lab.

The Business Laboratory is equipped with the latest teaching aids such as projector and video camera. Charts, Models, Magazines prepared by students are displayed for the benefit of all. The Lab is also used for interaction with the peers from other institutes. Students also participate in group discussions, interviews, presentations, etc. arranged here from time to time. With the Business lab, the college aims to stress on the importance of practical application of knowledge gained through theory, among students and faculty.





Latitude: 9.295833
Longitude: 77.710264
Accuracy: 24.9m
Azimuth: 354° (N)
Pitch: -36.4° (1.1°)
Time: 08-01-2020 16:31
Note: Business Lab, MBA - Bio Tech Building, Anna University, Chennai