



SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY

Pullipalayam, Morur (Po), Sankari (Tk), Salem (Dt) – 637304.

DEPARTMENT OF MECHANICAL ENGINEERING

CONSULTANCY ACTIVITIES DETAILS

S.No	Academic Year	Project Title	Duration	Facilities utilized	Funding Agency
1	2019-20	Process planning and manufacturing of aerospace components	6 Months	i. Design Lab ii. CAM Lab	Krish precisions, Tiruchengode
2	2018-19	Performance analysis of diesel engine by using plastic oil as an alternative fuel	2.5 Months	i. Thermal Lab	TNCST
3	2017-18	Manufacturing of rig cotter pin	2 Months	i. Design Lab ii. CAM Lab	K.R.Tools Center, Tiruchengode
		Manufacturing of Aluminium L Bracket	2 Months	i. Design Lab ii. CAM Lab	Mold Master Pvt Ltd, Coimbatore
4	2016-17	Manufacturing of Term Nut-03	6 Months	i. Design Lab ii. CAM Lab	Mold Master Pvt Ltd, Coimbatore
5	2015-16	Manufacturing of Term Nut-03& 12	1 Year	i. Design Lab ii. CAM Lab	Mold Master Pvt Ltd, Coimbatore
		Manufacturing of rig cotter pin	3 Months	i. Design Lab ii. CAM Lab	K.R.Tools Center, Tiruchengode
6	2014-15	Manufacturing of Term Nut-03 & 12	1 Year	i. Design Lab ii. CAM Lab	Mold Master Pvt Ltd, Coimbatore



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Facilities Description

CAM LAB-CNC Turning Centre



MACHINE DETAILS:

Sl.No	Description	Brand Name	Remarks
1.	AMS Jobber LM x- TRAVEL-140 Y-TRAVEL-400 Chuck dia-200mm Max bar Capacity dia-36 mm	ACE MANUFACTURING SYSTEM LTD, Bangalore.	Turning Centre (CNC Lathe)



Specification:

1. Swing over bed	: Ø500mm
2. Swing Over Carriage	: Ø215mm
3. Distance between Centre	:425mm
4. Maximum Machining Diameter	:270mm
5. Max Longitudinal Travel Z' axis	:400mm
6. Max Traverse travel X' axis	:140mm
7. Bore through Spindle	:Ø47mm
8. Maximum Bar Capacity	:Ø36mm
9. Spindle Speed	:50-4000rpm
10.Tail stock Stroke	:100mm
11.Tail stock Base Travel	:238mm
12.Number of Turret Station	:8

List of operations can be done in CNC Turning Centre

- Turning
- Facing Taper turning
- Contour turning
- Form turning
- Chamfering
- Cutoff
- Thread cutting
- Boring
- Drilling
- Knurling



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CAM LAB-CNC Vertical machining Centre



MACHINE DETAILS:

Sl.No	Description	Brand Name	Remarks
1.	AMS(MCV 400) x- TRAVEL-600 Y-TRAVEL-415 Z-TRAVEL-460	ACE MANUFACTURING SYSTEM LTD, Bangalore.	Vertical Machining Centre (VMC)



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Specifications:

- | | |
|---------------------------|--------------|
| 1. Maximum X'axis Travel | : 600mm |
| 2. Maximum Y'axis Travel | : 450mm |
| 3. Maximum Z' axis Travel | : 500mm |
| 4. Spindle Speed Range | : 60-6000rpm |
| 5. Tool Storage Capacity | : 20No's |
| 6. Tool Holder Type | : BT-40 |
| 7. Work Table size | : 900x450mm |

List of operations can be done in CNC vertical machining Centre

- Side Milling
- End milling
- Contour milling
- Face milling
- Drilling
- Reaming
- Tapping