G Pulla Reddy Engineering College (Autonomous): Kurnool Department of Mechanical Engineering

List of Workshops/Faculty Development programmes conducted by the Department:

S.No	Name of the Event	Workshop/ Faculty Development Programme	Number of Days conducted	Academic Year	Dates of the Event	Mode	Number of Students participated	Number of Faculty participated	Event Report
1.	Advanced SIMULATION Of Machining Using EDGE CAM	Workshop	6	2021-2022	5 th to 10 th July 2021	online	30	22	Report on EDGECAM.docx
2.	CNC Programming	Workshop	5	2020-2021	21 th to 25 th June 2021	offline	25	25	report of the workshop CNC.docx
3.	Non-Destructive Testing And Evaluation	Workshop	2	2018-2019	17 th - 21 st December 2018.	offline	-	38	Report on NDT.docx

G. PULLA REDDY ENGINEERING COLLEGE (Autonomous): KURNOOL Department of Mechanical Engineering

Five-day Workshop on

CNC PROGRAMMING

21st to 25th June 2021 REPORT on The CNC Programming WORKSHOP

About the Workshop

A Five-day workshop on CNC programming was organised by department of mechanical engineering from 21st June to 25th June 2021. This workshop was organised for the faculty and students off this college end nearby engineering colleges the participants have registered for the workshop before the commencement of the workshop. This workshop was arranged for the faculty and students who are doing their research and project works in the area of manufacturing. The resource person for this workshop was Shri. Akhil rami Reddy from Siemens Bangalore.

Computer Numerical Control (CNC) machines are a vital part of today's manufacturing industry. Fast, accurate, and adaptable, these machines—and those with the CNC machinist training to operate them—are critical to multiple important industries in the state. CT's manufacturers are leaders in making products that affect the world, including jet engines, helicopters, and submarines. The aerospace, medical, and military industries all benefit on both a large and small scale from skilled, trained CNC machinists.

About the CNC Programming

CNC programming (Computer Numerical Control Programming) is utilized by manufacturers to create program instructions for computers to control a machine tool. CNC is highly involved in the manufacturing process and improves automation as well as flexibility.

The SINUMERIK 808D ADVANCED control is a panel-based CNC for the basic performance range. ... Features such as simple operation, easy commissioning and maintenance – and an optimum cost position – represent the perfect basis for equipping entry-level CNC machines.

About the Program

Five-day workshop was conducted on CNC programming from 21st and 25th June 2021.

On the first day the workshop was inaugurated at 9 am and first session started at 9:30 am. The speaker gave a detailed presentation on CNC technology and advanced machining processes,

Introduction to CNC programming was covered in second session it was completed by 1.15 P.M the Session was more Interactive and informative for all participants. In afternoon session G-Codes and M-Codes

On the second day of the workshop The CNC trainer Explain basic CNC programming of turning and milling and he covered some advanced topics in CNC programming on how to write CNC programming for a complicated machining part. The morning session off the second day ended yet ended it 1:15 PM. In the afternoon session the trainer explained regarding Simens Sinumerik 808D controller how they can simulate the mission set up add actual programming in the controller.

On the 3rd day of the workshop the resource person covered topics on how to write CNC programming for milling operations end covered all the G codes and m codes required for writing milling programming, and the trainer showed the milling programs in Siemens 808D controller. In the afternoon session the participants were allowed to practice on the controller using various CNC programs and check the simulations and get acquainted Trudy user interface off CNC machine controller the first session ended at 1:15 PM end second session ended at 5:00 PM.

On the 4th day of the workshop the topics covered where how to set up CNC turning machine end what precautions should be taken while using while working on backspace CNC Machine and resource person also covered the topics on how to feed the CNC codes in the CNC turning machine controller. The trainer performed turning operations on workpieces and explain all the necessary aspects of the mission. In the afternoon session the party spends were allowed to machine practice and ask too to produce small turning components as they can get hands on practice. The first session ended at 1:15 PM and second session ended at 5:00 PM

On 5th day of the workshop CNC turning program CNC milling programming we're covered and basic milling operations where simulated in Siemens software and the trainer showed how to set up the CNC milling machine and what precautions to be taken while doing machining operations he gave some specific insights on how to fix the workpieces find in what order the tools should be kept in the true drum, the trainer also showed machining operations in CNC milling machine.

In afternoon session the participants were allowed to practice machining operations in CNC milling machine and the session was concluded at 4:00 PM.





A Five-Day Workshop on "CNC PROGRAMMING"

21st to 25th June 2021

Department of Mechanical Engineering

G. Pulla Reddy Engineering College (Autonomous): Kurnool

(An ISO 9001: 2008 Certified Institution)

ORGANISING COMMITTEE

Chief Patron:

Dr. P. Jaya Rami Reddy, Director Patron:

Dr. B. Sreenivasulu Reddy, Principal Chairman:

Dr K Madhava Reddy, HOD, ME Convenor:

Dr. E. Venu Gopal Goud Professor Advisory Committee:

Dr. Y.V. Mohan Reddy, Professor

Dr. V. Satish Kumar, Professor

Dr. B. Veera Bhadra Reddy, Professor

Programme Coordinator

Sri G. Shaikshavali, Asst. Professor

Organising Secretaries

- Dr. P. Harishankar, Assoc. Prof
- Dr. G. Suresh Kumar, Assoc. Prof
- Dr. G. Shankariah, Prof
- Dr. H. Raghavendra Rao, Assoc. Prof
- Dr. G. Nagaphani Sastry, Assoc. Prof
- Dr. R. Meenakshi Reddy, Assoc. Prof
- Dr. D. Devaki Devi, Assoc. Prof

Organising Members:

- Sri. V. Mahanandi Reddy, Sr.Asst. Prof
- Sri. M. Lava Kumar, Asst. Prof
- Sri. P. Lakshmi Reddy, Asst. Prof
- Sri. B. Madhusudhan Reddy, Asst. Prof
- Sri. E. Siva Reddy, Asst. Prof
- Sri M. Murali Mohan, Asst. Prof
- Sri. G. Praveen Kumar Yadav, Asst. Prof
- Sri. K. Jayasimha Reddy, Asst.Prof
- Sri. N. Krishnarjuna Rao, Asst. Prof
- Sri. G.S. Gurudattatreya, Asst. Prof
- Sri G. Venkatesh, Asst. Prof
- Sri. D. Mohana Krishnudu, Asst. Prof
- Sri. V. Sai Kumar Reddy, Asst. Prof
- Sri. S.Malleshwar Reddy Asst. Prof
- Sri. E.Pradeep Kumar, Asst. Prof Sri. MS.Manda Sreeja, Asst. Prof
- Sri. S.B.Bharat Kumar, Asst. Prof

To Principal

Dear Sir / Madam,

Sub: - A Five Day National Workshop on "CNC PROGRAMMING" - Reg

Date:

We are pleased to inform you that the Department of Mechanical Engineering of our college is organizing a Five-Day Workshop on "CNC PROGRAMMING" on 21st to 25th June 2021.

This workshop is designed to create awareness among the students and faculty about CNC Programming and machining applications on CNC turner and CNC Milling.

I take the privilege in requesting you to sponsor students and faculty from your institute to participate in the workshop. In this regard, that a wide publicity about the event may be given in your organization by circulating the enclosed brochure among your students.

Thanking You,

PRINCIPAL

List of student and faculty attended workshop

Number of Students Attended: 25

Number of Faculty Attended: 25

SNO	Roll No	Student Name	Year of study
1	189X1A0326	BOTTA RAMESH CHANDRA	III Year
2	189X1A0346	BATTINI NAVEEN KUMAR	III Year
3	189X1A0349	JOLLU YELLA SWAMY	III Year
4	189X1A0354	MUKKARA VIDYA SAGAR REDDY	III Year
5	189X1A0372	ESWAR REDDY GONGATI	III Year
6	189X1A0385	KARAMALLA MOULALI	III Year
7	189X1A03A3	S AHMED IRFAN	III Year
8	189X1A03F3	U SAI KUMAR	III Year
9	189X1A03H1	BHUKYA ANAND NAIK	III Year
10	199X5A03J7	KORRA VISHNU NAIK	III Year
11	199X5A03K6	NALLAVALLI DHANUNJAYA	III Year
12	189X1A0322	BINGI KOUSHIKNATH	III Year
13	189X1A0337	DUDEKULA FAROOQ	III Year
14	189X1A0350	K MURALI MANOHAR	III Year
15	189X1A0374	GAMPALA HARIKRISHNA	III Year
16	189X1A0383	KAMBALA RAVI TEJA	III Year
17	189X1A03C0	SANJAMALA KHASIM SAHEB	III Year
15	189X1A03D5	PALAKITTI SRIKANTH	III Year
19	189X1A03G5	MEDARA SURESH	III Year
20	189X1A0309	ADIMULAM SIVA	III Year
21	189X1A0329	BYRAPOGU KRISHNA	III Year
22	189X1A0342	SOMESWARUDU BOYA	III Year
23	189X1A0381	K RAKESH	III Year
24	189X1A0396	MANNEM NARAHARI	III Year
25	189X1A03A6	AVULA JITHENDRA	III Year

S.No	Name of Faculty	Name of the College	Designation
1	Manda Sreeja	G Pullareddy Engineering College	Assistant Professor
2	G S Guru Dattatreya	G Pullareddy Engineering College	Assistant Professor
3	Lakshmi Reddy Palle	G Pulla Reddy Engineering College	Assistant Professor
4	M Naga Phani Sastry	G Pulla Reddy Engineering College	Associate Professor

5	K DEVAKI DEVI	G Pullareddy Engineering College	ASSOCIATE PROFESSOR
6	MEENAKSHI REDDY R	G.Pulla Reddy Engineering College	Associate Professor
7	G Praveen Kumar Yadav	G Pulla Reddy Engineering College	Assistant professor
8	M NAGA PHANI SASTRY	G Pullareddy Engineering College	ASSOCIATE PROFESSOR
9	B. Madhusudhan Reddy	G.Pulla Reddy engineering college	Assistant professor
10	N KRISHNARJUNA RAO	G Pulla Reddy Engineering College	Assistant Professor
11	Jayasimha Reddy	G Pulla Reddy Engineering College	Assistant Professor
12	Dr. P. Hari Sankar	G.Pulla Reddy Engineering College	Associate Professor
13	Bharath Kumar S B	G Pullareddy Engineering College	Assistant Professor
14	Matam Lavakumar	G. Pulla Reddy Engineering college	Assistant professor
15	S Malleswara Reddy	G Pulla Reddy engineering College	Assistant professor
16	Doni Mohana krishnudu	G Pulla reddy engineering college	Assistant professor
17	Gudimetta Suresh Kumar	G Pulla Reddy Engineering Çollege	Associate Professor
18	Mangurai Murali Mohan	G. Pulla Reddy Engineering College	Assistant Professor
19	H Raghavendra Rao	G pulla Reddy engineering college	Associate professor
20	Dr. V Saikumar Reddy R	G Pulla Reddy Engineering College	Assistant Professor
21	ENUMULA SIVA REDDY	G Pullareddy Engineering College	Assistant Professor
22	P.Rajendra Prasad	G. Pulla Reddy Engineering College	Assistant Professor
23	G.Shaikshavali	G Pullareddy Engineering College	Assistant Professor
24	N.Krishnarjuna rao	G.Pulla Reddy Engineering College	Assistant Professor
25	Dr.E.Venu gopal Goud	G.Pulla Reddy Engineering Colllege	Professor

Glimpses of workshop









Sample Certificates:



G. PULLA REDDY ENGINEERING COLLEGE (Autonomous): KURNOOL Department of Mechanical Engineering

ONE Week Workshop on

Advanced SIMULATION of Machining using EDGECAM

5th to 10th July 2021 REPORT OF THE WORKSHOP

About Department

The Mechanical Engineering Department was established in the year 1985, the year of inception of the college and the first batch of Mechanical Engineers graduated in the year 1988. 33 batches have passed out by May 2020. The Faculty in the department are excellent in terms of qualification and experience, coming from various reputed universities, industries and research-oriented organizations. Faculties are committed to the noble cause of teaching learning process synchronizing with their efforts.

About the Workshop

One workshop on "Advanced SIMULATION of Machining using EDGE CAM "was organised by department of mechanical engineering from 5th to 10th July 2021. This workshop was organised for the faculty in the engineering colleges. The participants have registered for the workshop before the commencement of the workshop. This workshop was arrange in association with Kriatech Services Pvt. Ltd.. This workshop was arranged for the faculty. The resource person for this workshop was Shri. G.Ajitha Prabu, Director of Kriatech Services Pvt. Ltd., Chennai.

About the Program

Computer Aided manufacturing (CAM) software is a tool/program that uses numerical control (NC) to create detailed instructions (G-code) that drive CNC machines. CAM software streamlines the machining process and automates actions like drilling and cutting, which makes it ideal for high-quality manufacturing. CAM software prepares a drawing for production, which is considered the last step in the design process. For that reason, you can think of CAM software as "slicer software" that translates drawings and data into detailed instructions to drive an automated tool. CAM software uses G-code to communicate directly with the control machine.

EDGECAM's 3D capability offers a complete solution for generating high quality, gouge protected tool paths that meet the demands of manufacturers tasked with the programming and machining of complex parts and free form shapes.

EDGECAM offers not only best in class prismatic machining capabilities, you also have powerful 3D solid and surface machining strategies.

- Edgecam modules include:
- Edgecam Milling
- Edgecam 4 Axis machining
- Edgecam 5 Axis machining
- Edgecam turn mill
- Edgecamwire EDM
- Edgecam Turning
- Edgecam production

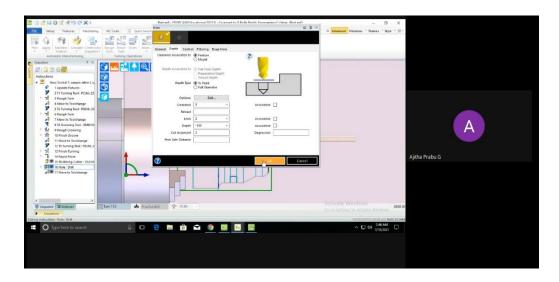
As Edge Cam Software has been evolved with immense research features it enables the faculty who pursing their research in the relevant field to move forward in their work. This motivated the dept. to organize this workshop.

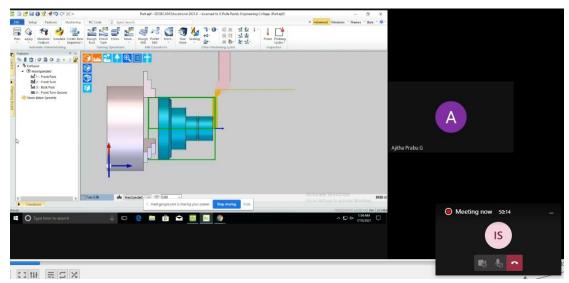
The syllabus and schedule of the workshop is given below:

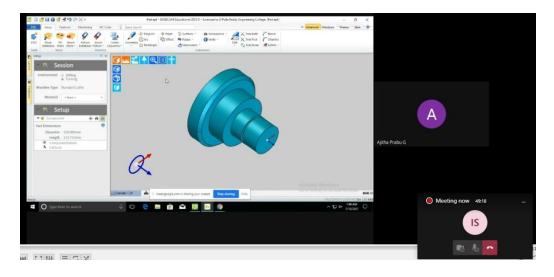
Data & Day	Session – I		Session – II		Session - III		Session – IV
Date & Day	09:30 am - 11:30 am		11:45 am – 01:15pm		02:00 pm - 03:15 pm		03:30 pm - 04:30 pm
05-07-2021 (Monday)	Inauguration of the WORKSHOP	TEA BREAK	Introduction to CAM	LUNCH BREAK	Introduction to Simulation and Machining Process	TEA BREAK	Introduction to EDGE CAM Software
06-07-2021 (Tuesday)	Performing Lathe Machining operations using EDGE CAM Software	L	Performing Lathe Machining operations using EDGE CAM Software	na e	Practice on Lathe Machining operations using EDGE CAM Software	L	Practice on Lathe Machining operations using EDGE CAM Software

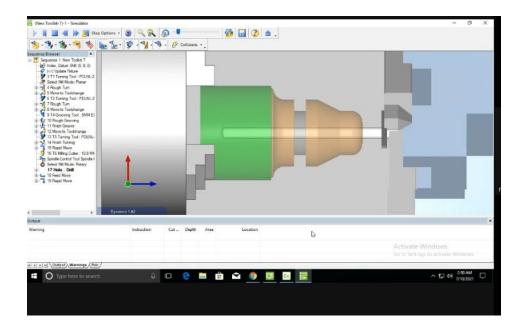
07-07-2021 (Wednesday)	Performing Lathe Machining operations using EDGE CAM Software	Performing Lathe Machining operations using EDGE CAM Software	Practice on Lathe Machining operations using EDGE CAM Software	Practice on Lathe Machining operations using EDGE CAM Software
08-07-2021 (Thursday)	Performing Milling Machining operations using EDGE CAM Software	Performing Milling Machining operations using EDGE CAM Software	Practice on Milling Machining operations using EDGE CAM Software	Practice on Milling Machining operations using EDGE CAM Software
09-07-2021 (Friday)	Performing Milling Machining operations using EDGE CAM Software	Performing Milling Machining operations using EDGE CAM Software	Performing Milling Machining operations using EDGE CAM Software	Practice on Milling Machining using EDGE CAM Software
10-07-2021 (Saturday)	NEW Simulation Software	Practice on Milling Machining using EDGE CAM Software	TOOL TEST	Valedictory function

Screen Shots during the Workshop:









A Total of 22 Faculty Members and 30 Students had been registered to this workshop and Certificates have been issued to the participants.

Format of the certificates:



List of students and Faculty attended the Workshop:

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		College			
6	Meenakshi Reddy R	G.Pulla Reddy	Associate	Kurnool	rmreddy123@gmail.com
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30	Ratnakaram Sai Jaya	G. Pulla Reddy	Student	Kurnool	189x1a03d8@gprec.ac.in
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37	Dudekula Riyaz	G. Pulla Reddy	Student	Kurnool	189x1a0369@gprec.ac.in
	Ahemed	Engineering			
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	Sreenivasaraju	Engineering			
		College			
39	Talari Sai Uday	G. Pulla Reddy	Student	Kurnool	189x1a03f2@gprec.ac.in
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40	Neeruganti	G. Pulla Reddy	Student	Kurnool	199x5a03j4@gprec.ac.in
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		College			
42	Patil Harshitha	G. Pulla Reddy	Student	Kurnool	189x1a03c2@gprec.ac.in
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		College			
43	Shaik Afreen Amina	G. Pulla Reddy	Student	Kurnool	189x1a03c3@gprec.ac.in
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		College			
44	Koppula Deepika	G. Pulla Reddy	Student	Kurnool	189x1a03g8@gprec.ac.in
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		Engineering			
		College			

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		Engineering			
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	Yadav	Engineering			
		College			
50	Nandammagari	G. Pulla Reddy	Student	Kurnool	189x1a03d3@gprec.ac.in
	Bharath Simha Reddy	Engineering			
		College			
51	Pratap Vamshi	G. Pulla Reddy	Student	Kurnool	189x1a03b9@gprec.ac.in
	Nandan	Engineering			
		College			
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	Hamzah	Engineering			
		College			



DEPARTMENT OF MECHANICAL ENGINEERING

Report on Workshop

Title : Non Destructive Testing and Evaluation

Duration : Five Days (17th - 21st, 2018)

Target Group: Faculty / Research Scholars

The primary objective of the workshop is to focus on creating awareness among the participants, on various Non-Destructive Tests used in industrial applications.

The programme was started by the resource person Mr. Rajasekhar Reddy with the topics entitled as per the programme schedule. A brief introduction about his experiences faced during his working fields has been given. Later, the session started with the first type of Non-Destructive Testing method called Liquid Penetrating Testing.

With the help of PPT & videos he has given brief idea about the various types of NDT methods during the morning session. During the afternoon session, participants are categorized with mobs of people and involved in practical session of the LPT and RPT testing methods.

On these days the types of NDT methods has been discussed and more time is allocated for practical sessions rather than theoritical concepts. The types of NDT methods namely Rapid prototype Testing and Ultrasonic Testing is discussed and the same has been done in lab during practical sessions

The delegates are very much interested to do further level courses available in NDT and evaluation. At last the valedictory programme was ended with vote of thanks presented by Vamsi Krishna, Programme Coordinator.

List of Participants attended the Workshop:

S.n	Name of the	Organizat	Designati	e-mail id(s)
o	Participant's	ion	on	
1	Dr. Y. Santosh Kumar	Dr.	Associate	santoshreddy1978@gmail.c
	Reddy	KVSRIT,	Prof	<u>om</u>
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		Kurnool	Prof	
3	B. Poli Reddy	AITS,	Asst	polireddymnm@gmail.com
		Tirupati	Professor	



4	M. Gopal	SVCE,Tiru	Asst	vssgopal@gmail.com
		pati	Professor	
5	B. Charan Teja	SVCE,Tiru	Asst	charanreddybuttala@gmail
		pati	Professor	<u>.com</u>
6	B.Punna Rao	SVCE,Tiru	Asst	punnarrao@gmail.com
		pati	Professor	
7	Dr. G. Sankaraiah	GPREC,	Professor	sankargandla74@gmail.co
		Kurnool		<u>m</u>
8	Dr. E. Venu Gopal	GPREC,	Professor	goudvenu@gmail.com
	Goud	Kurnool		
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10	Dr. G. Suresh Kumar	GPREC,	Associate	gudimettask@yahoo.com
		Kurnool	Prof	
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G Pulla Reddy Engineering College (Autonomous): Kurnool Department of Mechanical Engineering Report on Training Program on ROBCAD and CNC Turning

A One week training program on ROBCAD and CNC Turning (Foundation Level) had been conducted by the Department of Mechanical Engineering in association with Andhra Pradesh State Skill Development Corporation in GPREC during 29th July 2019 to 3rd August 2019. A Total of 30 on ROBCAD and 31 Students on CNC Turning (Foundation Level) of V Semester had undergone training. Trainer Sri. RamiReddi Akhil had trained students on ROBCAD and CNC Turning (Foundation Level) respectively.

The list of students who attended the ROBCAD Training is mentioned below:

S.No.	Name of the Student
1	THOTA MANOHAR
2	MANTHRI YASWANTH
3	K CHANDRA SEKHAR REDDY
4	GOLLA SHILPA
5	BHAIRAPU CHANDU PRASAD
6	MANJUNATH GARI KUSUMA
7	KADAM UDAYKUMAR
8	S BALA RUQMANGADA REDDY
9	TADIMARRI AFRED HUSSAIN
10	TALARI SURESH
11	BANDI MANOJ
12	E VANDANA
13	IRLA RAJESWARI
14	P ISMAIL
15	PALAGIRI CHAITANYA
16	R PUSHPA
17	R VENKATA SWATHI
18	DEVARAPATI SUBBAREDDY
19	K GANESH
20	KOTTHAPALLE SATHEESH YADAV
21	VULLIKANTI VENKATA REDDY
22	KORINE PALLI THARUN KUMAR



23	GOWNI MANOJ KUMAR REDDY
24	KALYANI KAAKE
25	MEDA VENKATA AJITH
26	KALE SIVA GURU MAHENDRA
27	NALLABALLE UMA MALLESWARI
28	PATNAMSETTI MANJUNATHA
29	S ABDUL LATHIF
30	K SWATHI

The list of students who attended the CNC Turning (Foundation Level) Training is mentioned below:

S.No.	Name of the Student
1	P VENKATA MAYUR KUMAR
2	BATTHINA TEJESH
3	RANGANA HARINATH
4	CHITRALA ANUPAMA
5	C GREESHMA
6	MOHD TAUHEED AHMED
7	NAGARAJA S
8	VASANTHAM RAGHAVENDRA
9	ELLURU UDAY KIRAN
10	M VENKATA BALA SUDHEER
11	PERLA PRANAY KUMAR REDDY
12	KANDRAPALLE LINGAMAIAH
13	B VISWANATH
14	B N LOK SAI CHANDU
15	MALEKAR SIVA MOHAN RAO
16	BAIRI PULIRAJU
17	CHIDIGE PRIYANKA
18	DAGADA VIJAYA RAMI REDDY
19	G HEMANTH KUMAR REDDY
20	G AKHILESWARA REDDY
21	POTTIGARI VISHNU VARDHAN
22	SYED MOHAMMAD
23	NATLA DEVAHARSHINI
24	M SHIVAPRASAD
25	KARU ANDREWS SOBERS
26	K VISHNUVARDHAN REDDY
27	BANDA BHANUPRAKASH



28	D D SASHANK SHARMAH
29	H AQUIB AZHAR
30	M SAI CHARAN
31	YESWANTH DEEPAK S N S

The students who had attended the training on CNC Turining (Foundation Level) on are mentioned below:

S.NO	STUDENT NAME
1	Mannem Narahari
2	Gongati Eswar reddy
3	Upparrapalli Sai kumar
4	Kummari peta Gokari
5	Y Jagadeeshwara reddy
6	Marri Narendra reddy
7	Neeruganti Shashidhar
8	Palakitti Srikanth
9	Yadava Sujith sharan
10	Boluduru Venkatapathi
11	Shaik Muhammad hamzah
12	E Sidda Praveen
13	N Bharath simha reddy
14	Bhukya Anandnaik
15	Shaik Khaja moinuddin
16	Smd Ashraff basha
17	M Madhusudhana reddy
18	Gampala Harikrishna
19	Gudisha Badri kumar
20	Koora Vishnu naik
21	Mohammed Afzal basha
22	Shaik Althaf basha
23	O Hema rajeev redddy
24	RamavathR.pushpa
25	KattubadiKhadar basha
26	BoggulaB.sathish kumar
27	ReddepoguChakri



K tirumalaSai charan sarma
KamalapuramLakshmi narayana
TalariGuru sai nandan
M.gMadan mohan
GollaShilpa
MarellaNaresh
PerumallaRajesh
RayenkiRama Krishna
DevarapatiSubbareddy
SeemalaS.bala rukmangada reddy
PalagiriChaitanya
SPranay kumar
UppuRuchitha
RachamreddyVenkata swathi
BhumaYashwanth kumar reddy
N kattemeediFarhath muskaan